



**Ventex®**

**INSIDE  
INTERIOR**



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# Natté

COLLECTION 2018-2021  
CLARITY & COMFORT  
GLASSFIBRE  
OF= 1-10%

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**Your view is key.  
Maintain your  
privacy and filter  
out unnecessary  
sunlight.**

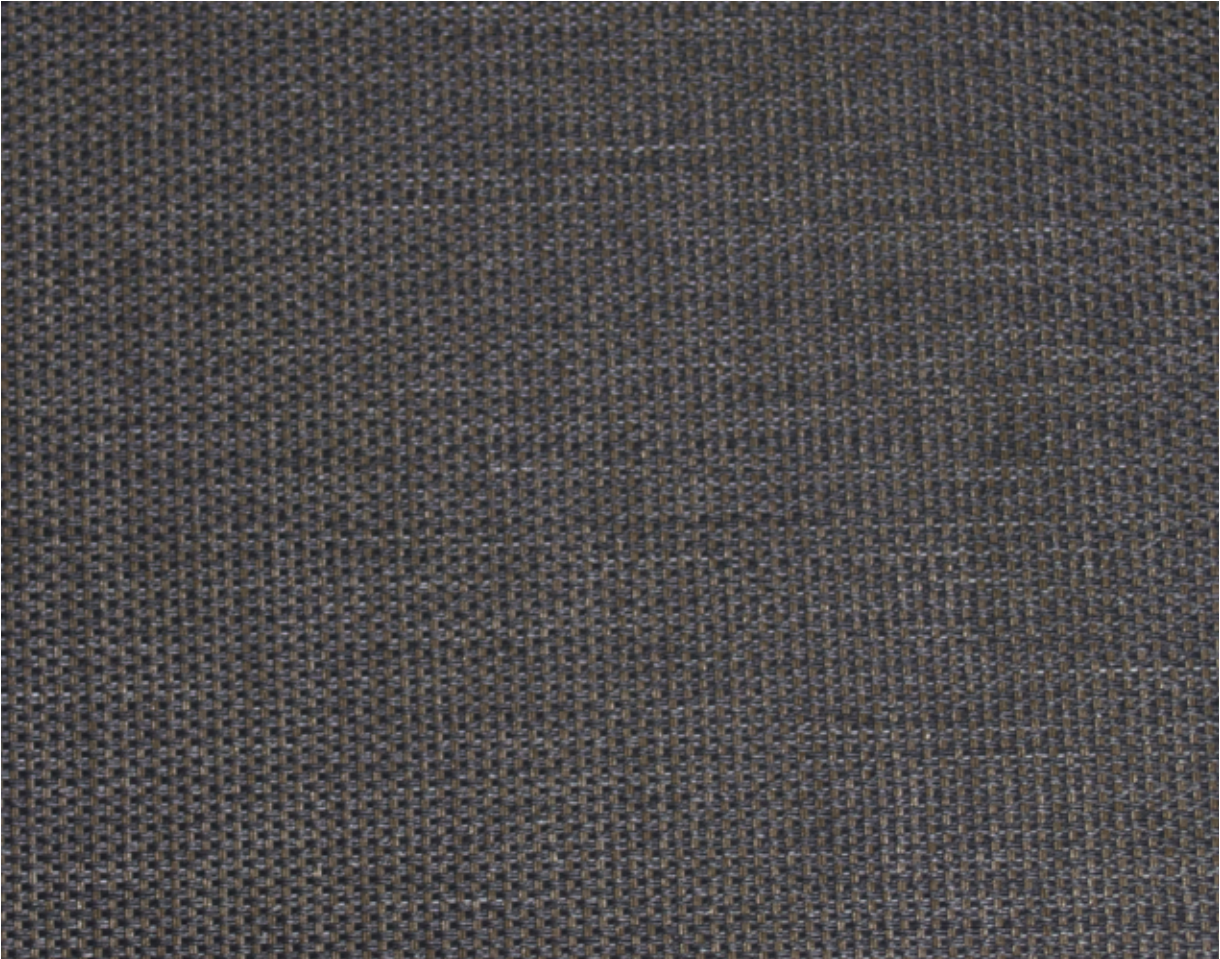
**Ventex®**



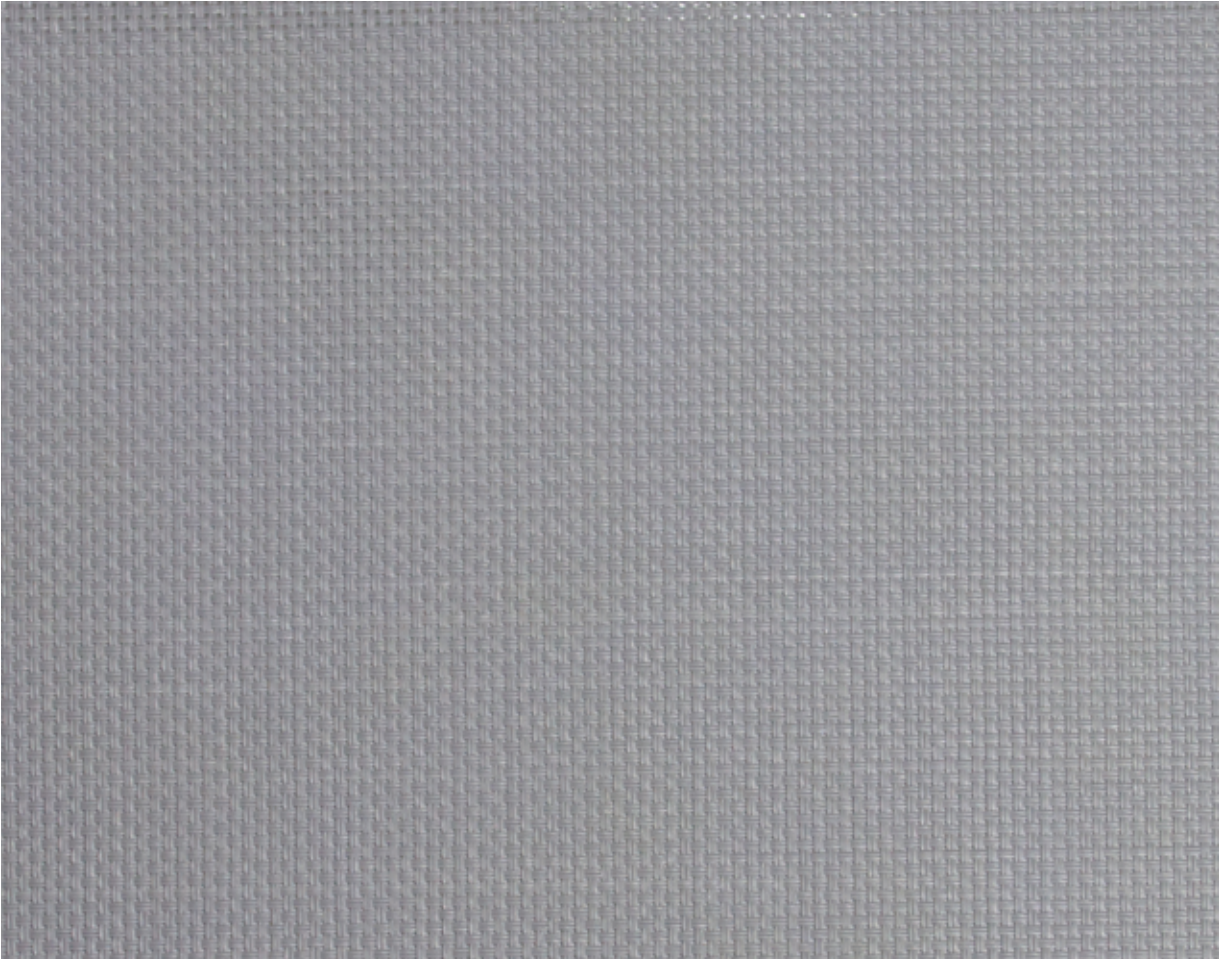




Natté 300



Natté 380





## Natté 390

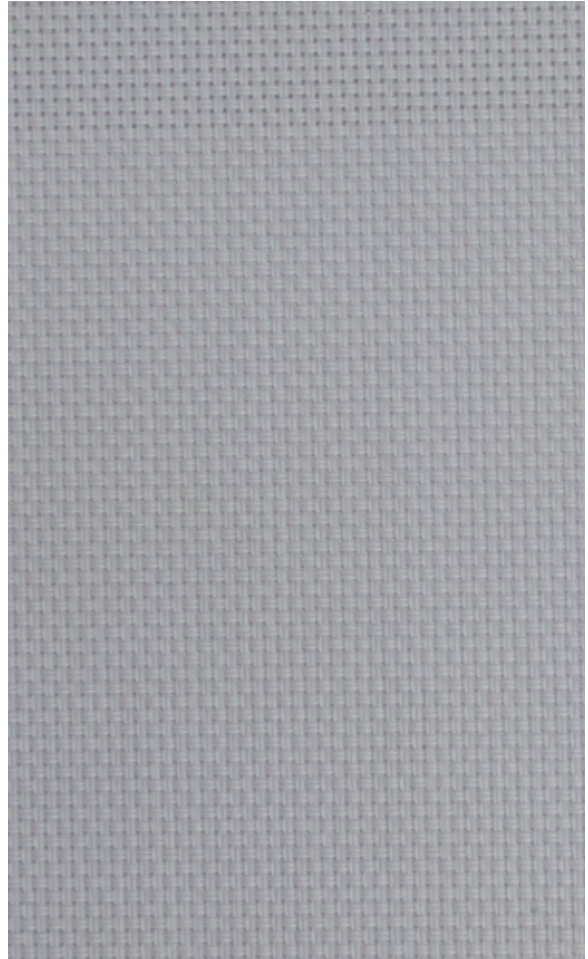




Natté 420



Natté 380P



# Natté 300

OF = 10%

## Technical specifications

| TECHNICAL SPECIFICATION             |                                           | UNITY            |      | STANDARD                                      | RESULT  |
|-------------------------------------|-------------------------------------------|------------------|------|-----------------------------------------------|---------|
| composition                         |                                           |                  |      | Glassfibre 36% - PVC 64%                      |         |
| openness factor                     |                                           | %                |      | NBN EN 410                                    | 10%     |
| weight                              |                                           | g/m <sup>2</sup> |      | NF EN 12127                                   | 345     |
| thickness                           |                                           | mm               |      | ISO 2286-3                                    | 0,45    |
| density                             |                                           | yarn/cm          | warp | ISO 7211/2                                    | 18      |
|                                     |                                           |                  | weft |                                               | 18      |
| colour fastness to artificial light |                                           |                  |      | ISO 105 B02                                   | >7      |
| tear strength                       | original                                  | daN              | warp | ISO 4674-1 method 2                           | 4,7     |
|                                     |                                           |                  | weft |                                               | 4,9     |
| elongation up to break              | original                                  | %                | warp | ISO 1421                                      | 2,7     |
|                                     |                                           |                  | weft |                                               | 2,7     |
| breaking strength                   | original                                  | daN/5 cm         | warp | ISO 1421                                      | 140     |
|                                     |                                           |                  | weft |                                               | 135     |
| elongation up to break              | after colour fastness to artificial light | %                | warp | ISO 1421                                      | 3,1     |
|                                     |                                           |                  | weft |                                               | 3,2     |
| breaking strength                   | after colour fastness to artificial light | daN/5 cm         | warp | ISO 1421                                      | 140     |
|                                     |                                           |                  | weft |                                               | 140     |
| tear strength                       | after climatic chamber -30°C              | daN              | warp | ISO 4674-1 method 2                           | 4,8     |
|                                     |                                           |                  | weft |                                               | 4,9     |
| elongation up to break              | after climatic chamber -30°C              | %                | warp | ISO 1421                                      | 3,1     |
|                                     |                                           |                  | weft |                                               | 2,7     |
| breaking strength                   | after climatic chamber -30°C              | daN/5 cm         | warp | ISO 1421                                      | 135     |
|                                     |                                           |                  | weft |                                               | 130     |
| tear strength                       | after climatic chamber +70°C              | daN              | warp | ISO 4674-1 method 2                           | 4,8     |
|                                     |                                           |                  | weft |                                               | 4,9     |
| elongation up to break              | after climatic chamber +70°C              | %                | warp | ISO 1421                                      | 2,7     |
|                                     |                                           |                  | weft |                                               | 2,7     |
| breaking strength                   | after climatic chamber +70°C              | daN/5 cm         | warp | ISO 1421                                      | 100     |
|                                     |                                           |                  | weft |                                               | 120     |
| fire classification                 | Europe                                    |                  |      | UNE-EN 13501-1:2007                           | C-s3,d0 |
|                                     | France                                    |                  |      | NF P92-503                                    | M1      |
|                                     | Italy                                     |                  |      | UNI 9177                                      | Class 1 |
|                                     | Germany                                   |                  |      | DIN 4102                                      | B1      |
|                                     | UK                                        |                  |      | BS 5867                                       | C       |
|                                     | USA                                       |                  |      | NFPA 701                                      | FR      |
|                                     | Spain                                     |                  |      | UNE EN 13773-2003                             | Clase 1 |
| roll length                         |                                           |                  |      | 30 m                                          |         |
| cleaning                            |                                           |                  |      | with soapy water                              |         |
| confection                          |                                           |                  |      | by heat, high frequency or ultrasonic welding |         |

These properties are given as indicative and don't have any contractual value



# Natté 380

OF = 5%

## Technical specifications

| TECHNICAL SPECIFICATION             |                                           | UNITY            |      | STANDARD                                      | RESULT  |
|-------------------------------------|-------------------------------------------|------------------|------|-----------------------------------------------|---------|
| composition                         |                                           |                  |      | Glassfibre 36% - PVC 64%                      |         |
| openness factor                     |                                           | %                |      | NBN EN 410                                    | 5%      |
| weight                              |                                           | g/m <sup>2</sup> |      | NF EN 12127                                   | 380     |
| thickness                           |                                           | mm               |      | ISO 2286-3                                    | 0,45    |
| density                             |                                           | yarn/cm          | warp | ISO 7211/2                                    | 20      |
|                                     |                                           |                  | weft |                                               | 20      |
| colour fastness to artificial light |                                           |                  |      | ISO 105 B02                                   | >7      |
| tear strength                       | original                                  | daN              | warp | ISO 4674-1 method 2                           | 4,9     |
|                                     |                                           |                  | weft |                                               | 4,7     |
| elongation up to break              | original                                  | %                | warp | ISO 1421                                      | 3,7     |
|                                     |                                           |                  | weft |                                               | 3,2     |
| breaking strength                   | original                                  | daN/5 cm         | warp | ISO 1421                                      | 160     |
|                                     |                                           |                  | weft |                                               | 160     |
| elongation up to break              | after colour fastness to artificial light | %                | warp | ISO 1421                                      | 3,7     |
|                                     |                                           |                  | weft |                                               | 3       |
| breaking strength                   | after colour fastness to artificial light | daN/5 cm         | warp | ISO 1421                                      | 150     |
|                                     |                                           |                  | weft |                                               | 160     |
| tear strength                       | after climatic chamber -30°C              | daN              | warp | ISO 4674-1 method 2                           | 5,1     |
|                                     |                                           |                  | weft |                                               | 5,15    |
| elongation up to break              | after climatic chamber -30°C              | %                | warp | ISO 1421                                      | 4       |
|                                     |                                           |                  | weft |                                               | 3       |
| breaking strength                   | after climatic chamber -30°C              | daN/5 cm         | warp | ISO 1421                                      | 150     |
|                                     |                                           |                  | weft |                                               | 140     |
| tear strength                       | after climatic chamber +70°C              | daN              | warp | ISO 4674-1 method 2                           | 5,3     |
|                                     |                                           |                  | weft |                                               | 4,8     |
| elongation up to break              | after climatic chamber +70°C              | %                | warp | ISO 1421                                      | 3,6     |
|                                     |                                           |                  | weft |                                               | 2,9     |
| breaking strength                   | after climatic chamber +70°C              | daN/5 cm         | warp | ISO 1421                                      | 120     |
|                                     |                                           |                  | weft |                                               | 120     |
| fire classification                 | Europe                                    |                  |      | UNE-EN 13501-1:2007                           | C-s3,d0 |
|                                     | France                                    |                  |      | NF P92-503                                    | M1      |
|                                     | Italy                                     |                  |      | UNI 9177                                      | Class 1 |
|                                     | Germany                                   |                  |      | DIN 4102                                      | B1      |
|                                     | UK                                        |                  |      | BS 5867                                       | C       |
|                                     | USA                                       |                  |      | NFPA 701                                      | FR      |
|                                     | Spain                                     |                  |      | UNE EN 13773-2003                             | Clase 1 |
| roll length                         |                                           |                  |      | 30 m                                          |         |
| cleaning                            |                                           |                  |      | with soapy water                              |         |
| confection                          |                                           |                  |      | by heat, high frequency or ultrasonic welding |         |

These properties are given as indicative and don't have any contractual value





# Natté 390

OF = 3%

## Technical specifications

| TECHNICAL SPECIFICATION             |                                           | UNITY            |      | STANDARD                                      | RESULT  |
|-------------------------------------|-------------------------------------------|------------------|------|-----------------------------------------------|---------|
| composition                         |                                           |                  |      | Glassfibre 36% - PVC 64%                      |         |
| openness factor                     |                                           | %                |      | NBN EN 410                                    | 3%      |
| weight                              |                                           | g/m <sup>2</sup> |      | NF EN 12127                                   | 390     |
| thickness                           |                                           | mm               |      | ISO 2286-3                                    | 0,50    |
| density                             |                                           | yarn/cm          | warp | ISO 7211/2                                    | 25      |
|                                     |                                           |                  | weft |                                               | 15      |
| colour fastness to artificial light |                                           |                  |      | ISO 105 B02                                   | >7      |
| tear strength                       | original                                  | daN              | warp | ISO 4674-1 method 2                           | 8,22    |
|                                     |                                           |                  | weft |                                               | 4,83    |
| elongation up to break              | original                                  | %                | warp | ISO 1421                                      | 7,05    |
|                                     |                                           |                  | weft |                                               | 4,45    |
| breaking strength                   | original                                  | daN/5 cm         | warp | ISO 1421                                      | 259,2   |
|                                     |                                           |                  | weft |                                               | 178,5   |
| elongation up to break              | after colour fastness to artificial light | %                | warp | ISO 1421                                      | 7,3     |
|                                     |                                           |                  | weft |                                               | 3,6     |
| breaking strength                   | after colour fastness to artificial light | daN/5 cm         | warp | ISO 1421                                      | 229,6   |
|                                     |                                           |                  | weft |                                               | 121,3   |
| tear strength                       | after climatic chamber -30°C              | daN              | warp | ISO 4674-1 method 2                           | 8,49    |
|                                     |                                           |                  | weft |                                               | 5,22    |
| elongation up to break              | after climatic chamber -30°C              | %                | warp | ISO 1421                                      | 7,21    |
|                                     |                                           |                  | weft |                                               | 4,33    |
| breaking strength                   | after climatic chamber -30°C              | daN/5 cm         | warp | ISO 1421                                      | 252,7   |
|                                     |                                           |                  | weft |                                               | 174,7   |
| tear strength                       | after climatic chamber +70°C              | daN              | warp | ISO 4674-1 method 2                           | 8,09    |
|                                     |                                           |                  | weft |                                               | 4,9     |
| elongation up to break              | after climatic chamber +70°C              | %                | warp | ISO 1421                                      | 7,15    |
|                                     |                                           |                  | weft |                                               | 3,85    |
| breaking strength                   | after climatic chamber +70°C              | daN/5 cm         | warp | ISO 1421                                      | 259,4   |
|                                     |                                           |                  | weft |                                               | 156,3   |
| fire classification                 | Europe                                    |                  |      | UNE-EN 13501-1:2007                           | C-s3,d0 |
|                                     | France                                    |                  |      | NF P92-503                                    | M1      |
|                                     | Italy                                     |                  |      | UNI 9177                                      | Class 1 |
|                                     | Germany                                   |                  |      | DIN 4102                                      | B1      |
|                                     | UK                                        |                  |      | BS 5867                                       | C       |
|                                     | USA                                       |                  |      | NFPA 701                                      | FR      |
|                                     | Spain                                     |                  |      | UNE EN 13773-2003                             | Clase 1 |
| roll length                         |                                           |                  |      | 30 m                                          |         |
| cleaning                            |                                           |                  |      | with soapy water                              |         |
| confection                          |                                           |                  |      | by heat, high frequency or ultrasonic welding |         |

These properties are given as indicative and don't have any contractual value



# Natté 420

OF = 1%

## Technical specifications

| TECHNICAL SPECIFICATION             |                                           | UNITY            |      | STANDARD                                      | RESULT  |
|-------------------------------------|-------------------------------------------|------------------|------|-----------------------------------------------|---------|
| composition                         |                                           |                  |      | Glassfibre 36% - PVC 64%                      |         |
| openness factor                     |                                           | %                |      | NBN EN 410                                    | 1%      |
| weight                              |                                           | g/m <sup>2</sup> |      | NF EN 12127                                   | 420     |
| thickness                           |                                           | mm               |      | ISO 2286-3                                    | 0,50    |
| density                             |                                           | yarn/cm          | warp | ISO 7211/2                                    | 25      |
|                                     |                                           |                  | weft |                                               | 18      |
| colour fastness to artificial light |                                           |                  |      | ISO 105 B02                                   | >7      |
| tear strength                       | original                                  | daN              | warp | ISO 4674-1 method 2                           | 5,13    |
|                                     |                                           |                  | weft |                                               | 3,3     |
| elongation up to break              | original                                  | %                | warp | ISO 1421                                      | 6,71    |
|                                     |                                           |                  | weft |                                               | 4,46    |
| breaking strength                   | original                                  | daN/5 cm         | warp | ISO 1421                                      | 244,1   |
|                                     |                                           |                  | weft |                                               | 190,9   |
| elongation up to break              | after colour fastness to artificial light | %                | warp | ISO 1421                                      | 6,65    |
|                                     |                                           |                  | weft |                                               | 4,35    |
| breaking strength                   | after colour fastness to artificial light | daN/5 cm         | warp | ISO 1421                                      | 243,8   |
|                                     |                                           |                  | weft |                                               | 180     |
| tear strength                       | after climatic chamber -30°C              | daN              | warp | ISO 4674-1 method 2                           | 5,19    |
|                                     |                                           |                  | weft |                                               | 3,44    |
| elongation up to break              | after climatic chamber -30°C              | %                | warp | ISO 1421                                      | 6,93    |
|                                     |                                           |                  | weft |                                               | 4,02    |
| breaking strength                   | after climatic chamber -30°C              | daN/5 cm         | warp | ISO 1421                                      | 266,8   |
|                                     |                                           |                  | weft |                                               | 175,8   |
| tear strength                       | after climatic chamber +70°C              | daN              | warp | ISO 4674-1 method 2                           | 5,47    |
|                                     |                                           |                  | weft |                                               | 3,59    |
| elongation up to break              | after climatic chamber +70°C              | %                | warp | ISO 1421                                      | 6,66    |
|                                     |                                           |                  | weft |                                               | 3,75    |
| breaking strength                   | after climatic chamber +70°C              | daN/5 cm         | warp | ISO 1421                                      | 244,5   |
|                                     |                                           |                  | weft |                                               | 162,6   |
| fire classification                 | Europe                                    |                  |      | UNE-EN 13501-1:2007                           | C-s3,d0 |
|                                     | France                                    |                  |      | NF P92-503                                    | M1      |
|                                     | Italy                                     |                  |      | UNI 9177                                      | Class 1 |
|                                     | Germany                                   |                  |      | DIN 4102                                      | B1      |
|                                     | UK                                        |                  |      | BS 5867                                       | C       |
|                                     | USA                                       |                  |      | NFPA 701                                      | FR      |
|                                     | Spain                                     |                  |      | UNE EN 13773-2003                             | Clase 1 |
| roll length                         |                                           |                  |      | 30 m                                          |         |
| cleaning                            |                                           |                  |      | with soapy water                              |         |
| confection                          |                                           |                  |      | by heat, high frequency or ultrasonic welding |         |

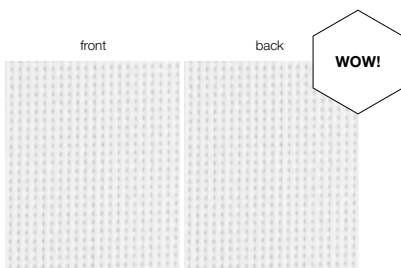
These properties are given as indicative and don't have any contractual value



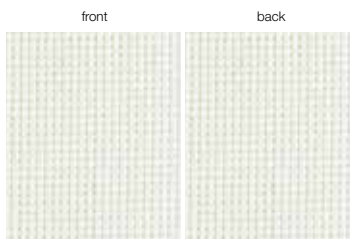
# Natté 300



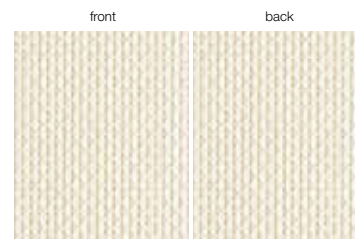
## Colours & references



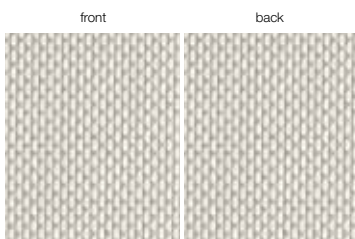
**Natté 300** 092092 WOW white



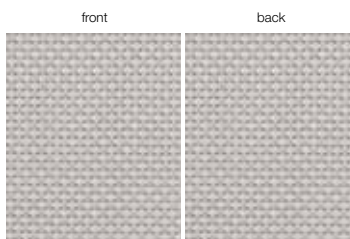
**Natté 300** 002002 white | white



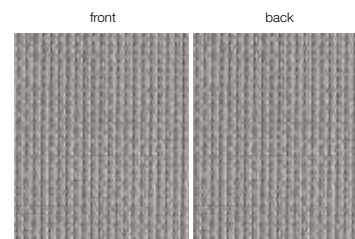
**Natté 300** 002008 white | linen



**Natté 300** 002007 white | pearl grey

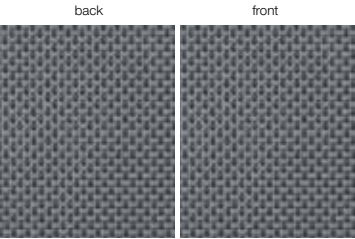


**Natté 300** 007008 pearl grey | linen

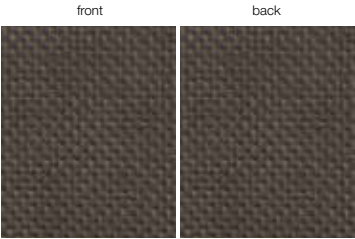


**Natté 300** 007007 pearl grey | pearl grey

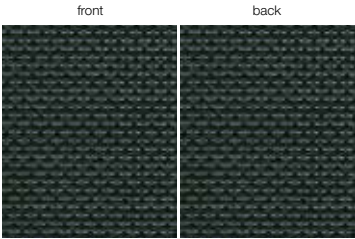




Natté 300 010001 charcoal | grey



Natté 300 010011 charcoal | bronze



Natté 300 010010 charcoal | charcoal

| Natté 300                      | 200 cm | 250 cm | 320 cm |
|--------------------------------|--------|--------|--------|
| 092092 WOW white               |        | •      |        |
| 002002 white   white           | •      | •      | •      |
| 002008 white   linen           | •      | •      | •      |
| 002007 white   pearl grey      | •      | •      | •      |
| 007008 pearl grey   linen      | •      | •      | •      |
| 007007 pearl grey   pearl grey | •      | •      | •      |
| 010001 charcoal   grey         | •      | •      | •      |
| 010011 charcoal   bronze       | •      | •      | •      |
| 010010 charcoal   charcoal     | •      | •      | •      |

# Natté 300



## Solar energetic properties

| Natté 300<br><br>European Standard EN 14501<br>Calculation G-value according to EN13363-1 version 7.0 |                    |                                                                                     |                                                                                     |                         | SOLAR ENERGETIC PROPERTIES |                            |                                 |                                                |                                 |                                 |                                    | VISUAL PROPERTIES        |      |
|-------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|----------------------------|----------------------------|---------------------------------|------------------------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|------|
|                                                                                                       |                    |                                                                                     |                                                                                     |                         | FABRIC                     |                            |                                 | FABRIC + GLAZING                               |                                 |                                 |                                    |                          |      |
|                                                                                                       |                    |                                                                                     |                                                                                     |                         |                            |                            |                                 | INTERIOR                                       |                                 |                                 |                                    |                          |      |
|                                                                                                       |                    |                                                                                     |                                                                                     |                         |                            |                            |                                 | G-factor =<br>total solar energy transmittance |                                 |                                 |                                    |                          |      |
| references                                                                                            | colours            |                                                                                     |                                                                                     | As = Solar Absorbance % | Rs = Solar Reflectance %   | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8 | Glazing B - Gv = 0,76 - U = 2,9                | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |      |
|                                                                                                       |                    | front                                                                               | back                                                                                |                         |                            |                            |                                 |                                                |                                 |                                 |                                    |                          |      |
| 092092                                                                                                | WOW white          |    |    | front                   | 10,1                       | 65                         | 24,9                            | 0,37                                           | 0,38                            | 0,36                            | 0,25                               | 23,6                     | 10,7 |
|                                                                                                       |                    |                                                                                     |                                                                                     | back                    | 10,1                       | 65                         | 24,9                            | 0,37                                           | 0,38                            | 0,36                            | 0,25                               | 23,6                     | 10,7 |
| 002002                                                                                                | white   white      |    |    | front                   | 11,6                       | 64,0                       | 24,4                            | 0,37                                           | 0,38                            | 0,36                            | 0,25                               | 23,6                     | 10,7 |
|                                                                                                       |                    |                                                                                     |                                                                                     | back                    | 11,6                       | 64,0                       | 24,4                            | 0,37                                           | 0,38                            | 0,36                            | 0,25                               | 23,6                     | 10,7 |
| 002008                                                                                                | white   linen      |    |    | front                   | 19,8                       | 57,7                       | 22,5                            | 0,41                                           | 0,41                            | 0,38                            | 0,26                               | 20,4                     | 11,8 |
|                                                                                                       |                    |                                                                                     |                                                                                     | back                    | 19,9                       | 57,6                       | 22,5                            | 0,41                                           | 0,41                            | 0,38                            | 0,26                               | 20,4                     | 11,8 |
| 002007                                                                                                | white   pearl grey |   |   | front                   | 33,1                       | 46,6                       | 20,3                            | 0,47                                           | 0,47                            | 0,42                            | 0,27                               | 17,7                     | 11,8 |
|                                                                                                       |                    |                                                                                     |                                                                                     | back                    | 33,5                       | 46,2                       | 20,3                            | 0,47                                           | 0,47                            | 0,42                            | 0,27                               | 17,7                     | 11,8 |
| 007008                                                                                                | pearl grey   linen |  |  | front                   | 41,2                       | 38,7                       | 20,1                            | 0,49                                           | 0,49                            | 0,44                            | 0,27                               | 17,3                     | 13,8 |
|                                                                                                       |                    |                                                                                     |                                                                                     | back                    | 41,2                       | 38,7                       | 20,1                            | 0,49                                           | 0,49                            | 0,44                            | 0,27                               | 17,3                     | 13,8 |

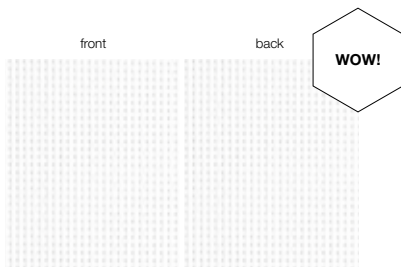
| Natté 300<br><br>European Standard EN 14501<br>Calculation G-value according to EN13363-1 version 7.0 |                            |                                                                                    |                                                                                    |                          | SOLAR ENERGETIC PROPERTIES |                            |                                 |                                                |                                 |                                 |                                    |                          | VISUAL PROPERTIES |  |
|-------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------------------|---------------------------------|------------------------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|-------------------|--|
|                                                                                                       |                            |                                                                                    |                                                                                    |                          | FABRIC                     |                            |                                 | FABRIC + GLAZING                               |                                 |                                 |                                    |                          |                   |  |
|                                                                                                       |                            |                                                                                    |                                                                                    |                          |                            |                            |                                 | INTERIOR                                       |                                 |                                 |                                    |                          |                   |  |
|                                                                                                       |                            |                                                                                    |                                                                                    |                          |                            |                            |                                 | G-factor =<br>total solar energy transmittance |                                 |                                 |                                    |                          |                   |  |
| references                                                                                            | colours                    |                                                                                    |                                                                                    | As = Solar Absorptance % | Rs = Solar Reflectance %   | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8 | Glazing B - Gv = 0,76 - U = 2,9                | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |                   |  |
|                                                                                                       |                            | front                                                                              | back                                                                               |                          |                            |                            |                                 |                                                |                                 |                                 |                                    |                          |                   |  |
| 007007                                                                                                | pearl grey  <br>pearl grey |   |   | front                    | 48,2                       | 33,6                       | 18,2                            | 0,54                                           | 0,53                            | 0,46                            | 0,28                               | 15,4                     | 13,0              |  |
|                                                                                                       |                            |                                                                                    |                                                                                    | back                     | 48,4                       | 33,4                       | 18,2                            | 0,54                                           | 0,53                            | 0,46                            | 0,28                               | 15,4                     | 13,0              |  |
| 010001                                                                                                | charcoal   grey            |   |   | front                    | 77,0                       | 10,0                       | 13,0                            | 0,62                                           | 0,62                            | 0,53                            | 0,30                               | 12,7                     | 12,7              |  |
|                                                                                                       |                            |                                                                                    |                                                                                    | back                     | 77,0                       | 10,0                       | 13,0                            | 0,62                                           | 0,62                            | 0,53                            | 0,30                               | 12,7                     | 12,7              |  |
| 010011                                                                                                | charcoal   bronze          |   |   | front                    | 79,5                       | 6,7                        | 13,8                            | 0,64                                           | 0,64                            | 0,54                            | 0,30                               | 13,6                     | 13,6              |  |
|                                                                                                       |                            |                                                                                    |                                                                                    | back                     | 79,5                       | 6,7                        | 13,8                            | 0,64                                           | 0,64                            | 0,54                            | 0,30                               | 13,6                     | 13,6              |  |
| 010010                                                                                                | charcoal  <br>charcoal     |  |  | front                    | 81,5                       | 5,7                        | 12,8                            | 0,70                                           | 0,67                            | 0,55                            | 0,30                               | 12,7                     | 12,7              |  |
|                                                                                                       |                            |                                                                                    |                                                                                    | back                     | 81,5                       | 5,7                        | 12,8                            | 0,70                                           | 0,67                            | 0,55                            | 0,30                               | 12,7                     | 12,7              |  |

|                                                                                                                      |           |
|----------------------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                                | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                                     | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon            | Gv = 0,59 |
| GLAZING D = reflective double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |

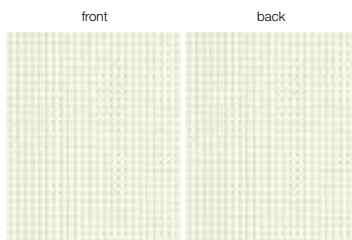
# Natté 380



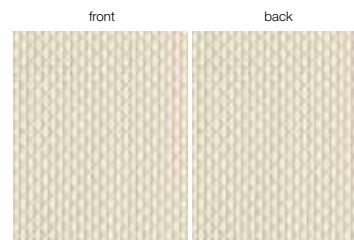
## Colours & references



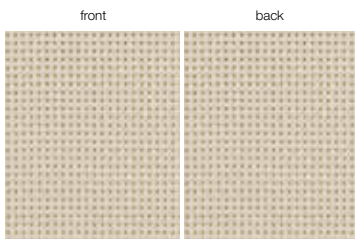
**Natté 380** 092092 WOW white



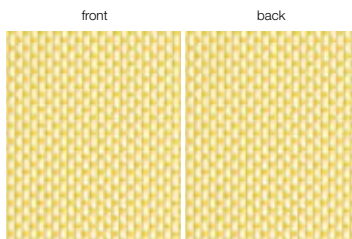
**Natté 380** 002002 white | white



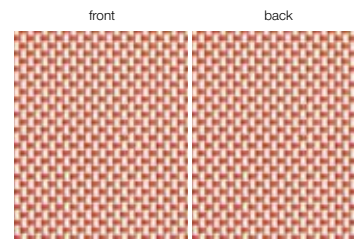
**Natté 380** 002008 white | linen



**Natté 380** 008008 linen | linen



**Natté 380** 002006 white | yellow

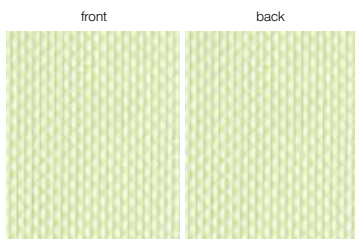


**Natté 380** 002005 white | mandarine

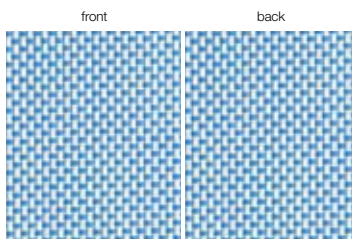


## GLASSFIBRE

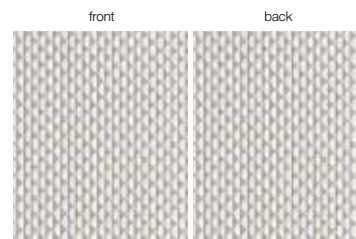
OF = 5%



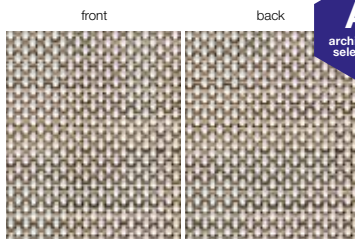
**Natté 380** 002017 white | pistache



**Natté 380** 002014 white | turquoise



**Natté 380** 002007 white | pearl grey

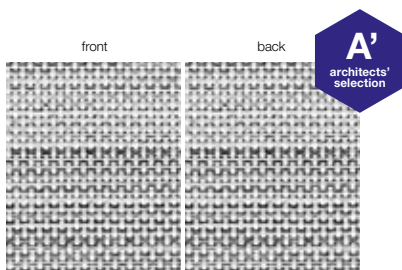


**Natté 380 bicolor** 002048 white | sand-bronze

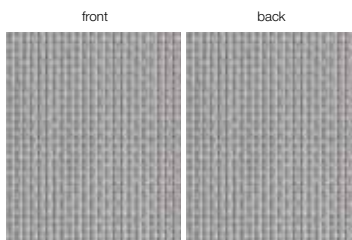


| Natté 380                  | 200 cm | 250 cm | 320 cm |
|----------------------------|--------|--------|--------|
| 092092 WOW white           |        | •      |        |
| 002002 white   white       | •      | •      | •      |
| 002008 white   linen       | •      | •      | •      |
| 008008 linen   linen       |        | •      |        |
| 002006 white   yellow      |        | •      |        |
| 002005 white   mandarine   |        | •      |        |
| 002017 white   pistache    |        | •      |        |
| 002014 white   turquoise   |        | •      |        |
| 002007 white   pearl grey  | •      | •      | •      |
| 002048 white   sand-bronze | •      | •      | •      |

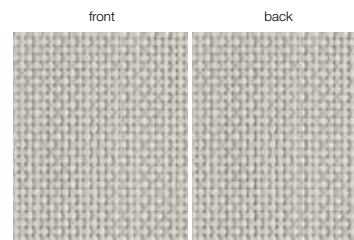
# Natté 380



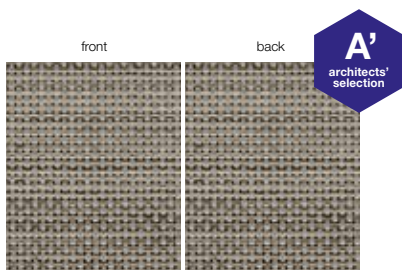
**Natté 380 bicolor** 002049 white | white-charcoal



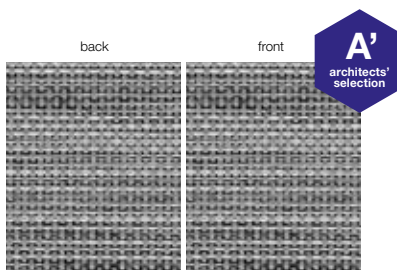
**Natté 380** 007007 pearl grey | pearl grey



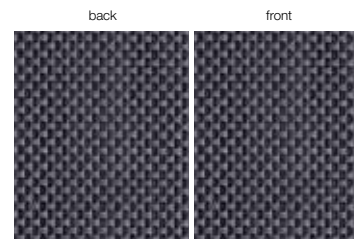
**Natté 380** 007008 pearl grey | linen



**Natté 380 bicolor** 007048 pearl grey | sand-bronze



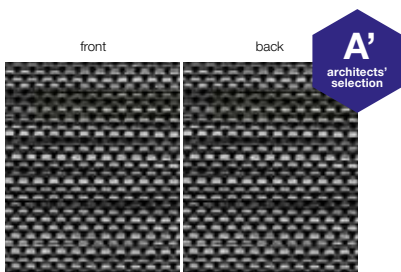
**Natté 380 bicolor** 007049 pearl grey | white-charcoal



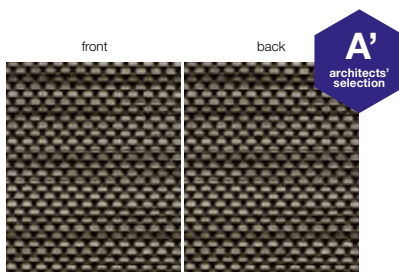
**Natté 380** 010001 charcoal | grey

## GLASSFIBRE

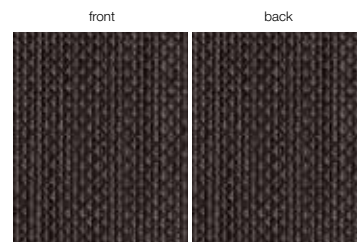
OF = 1-10%



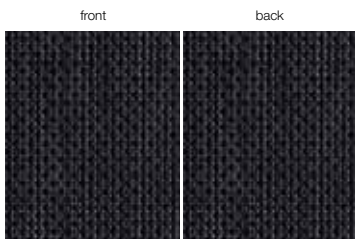
**Natté 380 bicolor** 010049 charcoal | white-charcoal



**Natté 380 bicolor** 010048 charcoal | sand-bronze



**Natté 380** 010011 charcoal | bronze



**Natté 380** 010010 charcoal | charcoal

| Natté 380 |                             | 200 cm | 250 cm | 320 cm |
|-----------|-----------------------------|--------|--------|--------|
| 002049    | white   white-charcoal      | •      | •      | •      |
| 007007    | pearl grey   pearl grey     | •      | •      | •      |
| 007008    | pearl grey   linen          | •      | •      | •      |
| 007048    | pearl grey   sand-bronze    | •      | •      | •      |
| 007049    | pearl grey   white-charcoal | •      | •      | •      |
| 010001    | charcoal   grey             | •      | •      | •      |
| 010049    | charcoal   white-charcoal   | •      | •      | •      |
| 010048    | charcoal   sand-bronze      | •      | •      | •      |
| 010011    | charcoal   bronze           | •      | •      | •      |
| 010010    | charcoal   charcoal         | •      | •      | •      |

# Natté 380



## Solar energetic properties

| Natté 380<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1 version 7.0 |                        |                                                                                     |                                                                                     |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |  |
|--------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--|
|                                                                                                        |                        |                                                                                     |                                                                                     |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                        |                        |                                                                                     |                                                                                     |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                        |                        |                                                                                     |                                                                                     |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |  |
| references                                                                                             | colours                |                                                                                     |                                                                                     |       | As = Solar Absorbance %    | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |  |
|                                                                                                        |                        | front                                                                               | back                                                                                |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 092092                                                                                                 | WOW white              |    |    | front | 7,9                        | 63,6                     | 28,5                       | 0,37                                           | 0,38                            | 0,37                            | 0,25                            | 26,3                               | 17,5                     |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 7,9                        | 63,6                     | 28,5                       | 0,37                                           | 0,38                            | 0,37                            | 0,25                            | 26,3                               | 17,5                     |  |
| 002002                                                                                                 | white   white          |    |    | front | 10,0                       | 66,6                     | 23,4                       | 0,36                                           | 0,37                            | 0,36                            | 0,25                            | 21,8                               | 10,9                     |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 9,9                        | 66,8                     | 23,4                       | 0,35                                           | 0,37                            | 0,36                            | 0,25                            | 21,8                               | 10,9                     |  |
| 002008                                                                                                 | white   linen          |    |    | front | 21,3                       | 59,8                     | 18,9                       | 0,39                                           | 0,40                            | 0,38                            | 0,26                            | 16,9                               | 7,9                      |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 21,5                       | 59,7                     | 18,9                       | 0,39                                           | 0,40                            | 0,38                            | 0,26                            | 16,9                               | 7,9                      |  |
| 008008                                                                                                 | linen   linen          |   |   | front | 41,2                       | 41,1                     | 17,7                       | 0,50                                           | 0,50                            | 0,44                            | 0,27                            | 15,2                               | 10,2                     |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 41,2                       | 41,1                     | 17,7                       | 0,50                                           | 0,50                            | 0,44                            | 0,27                            | 15,2                               | 10,2                     |  |
| 002006                                                                                                 | white   yellow         |  |  | front | 35,6                       | 45,5                     | 18,9                       | 0,47                                           | 0,47                            | 0,42                            | 0,27                            | 17,9                               | 11,0                     |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 35,6                       | 45,5                     | 18,9                       | 0,47                                           | 0,47                            | 0,42                            | 0,27                            | 17,9                               | 11,0                     |  |
| 002005                                                                                                 | white   mandarine      |  |  | front | 50,8                       | 36,4                     | 12,8                       | 0,52                                           | 0,52                            | 0,45                            | 0,28                            | 10,0                               | 7,9                      |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 50,6                       | 36,4                     | 12,8                       | 0,52                                           | 0,52                            | 0,45                            | 0,28                            | 10,0                               | 7,9                      |  |
| 002017                                                                                                 | white   pistache       |  |  | front | 39,3                       | 45,7                     | 15,0                       | 0,47                                           | 0,47                            | 0,42                            | 0,27                            | 11,9                               | 8,2                      |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 39,2                       | 45,8                     | 15,0                       | 0,47                                           | 0,47                            | 0,42                            | 0,27                            | 11,9                               | 8,2                      |  |
| 002014                                                                                                 | white   turquoise      |  |  | front | 58,0                       | 29,3                     | 12,7                       | 0,56                                           | 0,55                            | 0,47                            | 0,28                            | 10,7                               | 9,5                      |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 58,0                       | 29,3                     | 12,7                       | 0,56                                           | 0,55                            | 0,47                            | 0,28                            | 10,7                               | 9,5                      |  |
| 002007                                                                                                 | white   pearl grey     |  |  | front | 35,2                       | 48,8                     | 16,1                       | 0,45                                           | 0,45                            | 0,41                            | 0,27                            | 13,6                               | 8,5                      |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 35,4                       | 48,5                     | 16,1                       | 0,45                                           | 0,46                            | 0,41                            | 0,27                            | 13,6                               | 8,5                      |  |
| 002048                                                                                                 | white   sand-bronze    |  |  | front | 41,2                       | 41,1                     | 17,7                       | 0,50                                           | 0,50                            | 0,44                            | 0,27                            | 15,2                               | 10,2                     |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 41,2                       | 41,1                     | 17,7                       | 0,50                                           | 0,50                            | 0,44                            | 0,27                            | 15,2                               | 10,2                     |  |
| 002049                                                                                                 | white   white-charcoal |  |  | front | 35,6                       | 45,5                     | 18,9                       | 0,47                                           | 0,47                            | 0,42                            | 0,27                            | 17,9                               | 11,0                     |  |
|                                                                                                        |                        |                                                                                     |                                                                                     | back  | 35,6                       | 45,5                     | 18,9                       | 0,47                                           | 0,47                            | 0,42                            | 0,27                            | 17,9                               | 11,0                     |  |

| Natté 380  |                             |                                                                                     |                                                                                     | SOLAR ENERGETIC PROPERTIES |                                                |                            |                                 |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |      |
|------------|-----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------|------------------------------------------------|----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|------|
|            |                             |                                                                                     |                                                                                     | FABRIC                     | FABRIC + GLAZING                               |                            |                                 |                                 |                                 |                                 |                                    |                          |      |
|            |                             |                                                                                     |                                                                                     |                            | INTERIOR                                       |                            |                                 |                                 |                                 |                                 |                                    |                          |      |
|            |                             |                                                                                     |                                                                                     |                            | G-factor =<br>total solar energy transmittance |                            |                                 |                                 |                                 |                                 |                                    |                          |      |
| references | colours                     |                                                                                     |                                                                                     | As = Solar Absorptance %   | Rs = Solar Reflectance %                       | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8 | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |      |
|            |                             | front                                                                               | back                                                                                |                            |                                                |                            |                                 |                                 |                                 |                                 |                                    |                          |      |
| 007007     | pearl grey   pearl grey     |    |    | front                      | 50,8                                           | 36,4                       | 12,8                            | 0,52                            | 0,52                            | 0,45                            | 0,28                               | 10,0                     | 7,9  |
|            |                             |                                                                                     |                                                                                     | back                       | 50,6                                           | 36,7                       | 12,8                            | 0,52                            | 0,51                            | 0,45                            | 0,28                               | 10,0                     | 7,9  |
| 007008     | pearl grey   linen          |    |    | front                      | 39,3                                           | 45,7                       | 15,0                            | 0,47                            | 0,47                            | 0,42                            | 0,27                               | 11,9                     | 8,2  |
|            |                             |                                                                                     |                                                                                     | back                       | 39,2                                           | 45,8                       | 15,0                            | 0,47                            | 0,47                            | 0,42                            | 0,27                               | 11,9                     | 8,2  |
| 007048     | pearl grey   sand-bronze    |    |    | front                      | 58,0                                           | 29,3                       | 12,7                            | 0,56                            | 0,55                            | 0,47                            | 0,28                               | 10,7                     | 9,5  |
|            |                             |                                                                                     |                                                                                     | back                       | 58,0                                           | 29,3                       | 12,7                            | 0,56                            | 0,55                            | 0,47                            | 0,28                               | 10,7                     | 9,5  |
| 007049     | pearl grey   white-charcoal |   |   | front                      | 55,6                                           | 30,8                       | 13,6                            | 0,55                            | 0,54                            | 0,47                            | 0,28                               | 12,2                     | 10,3 |
|            |                             |                                                                                     |                                                                                     | back                       | 55,6                                           | 30,8                       | 13,6                            | 0,55                            | 0,54                            | 0,47                            | 0,28                               | 12,2                     | 10,3 |
| 010001     | charcoal   grey             |  |  | front                      | 80,9                                           | 11,3                       | 7,8                             | 0,66                            | 0,64                            | 0,53                            | 0,30                               | 7,7                      | 7,4  |
|            |                             |                                                                                     |                                                                                     | back                       | 81,0                                           | 11,2                       | 7,8                             | 0,66                            | 0,64                            | 0,53                            | 0,30                               | 7,7                      | 7,4  |
| 010049     | charcoal   white-charcoal   |  |  | front                      | 71,2                                           | 17,9                       | 10,9                            | 0,53                            | 0,53                            | 0,46                            | 0,28                               | 10,6                     | 9,7  |
|            |                             |                                                                                     |                                                                                     | back                       | 71,2                                           | 17,9                       | 10,9                            | 0,53                            | 0,53                            | 0,46                            | 0,28                               | 10,6                     | 9,7  |
| 010048     | charcoal   sand-bronze      |  |  | front                      | 75,7                                           | 14,8                       | 9,5                             | 0,64                            | 0,62                            | 0,52                            | 0,30                               | 9,0                      | 8,7  |
|            |                             |                                                                                     |                                                                                     | back                       | 75,7                                           | 14,8                       | 9,5                             | 0,64                            | 0,62                            | 0,52                            | 0,30                               | 9,0                      | 8,7  |
| 010011     | charcoal   bronze           |  |  | front                      | 84,8                                           | 7,3                        | 7,9                             | 0,68                            | 0,66                            | 0,55                            | 0,30                               | 7,6                      | 7,5  |
|            |                             |                                                                                     |                                                                                     | back                       | 84,8                                           | 7,3                        | 7,9                             | 0,68                            | 0,66                            | 0,55                            | 0,30                               | 7,6                      | 7,5  |
| 010010     | charcoal   charcoal         |  |  | front                      | 88,0                                           | 5,7                        | 6,3                             | 0,69                            | 0,67                            | 0,55                            | 0,30                               | 6,3                      | 6,3  |
|            |                             |                                                                                     |                                                                                     | back                       | 88,0                                           | 5,7                        | 6,3                             | 0,69                            | 0,67                            | 0,55                            | 0,30                               | 6,3                      | 6,3  |

|                                                                                                                      |           |
|----------------------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                                | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                                     | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon            | Gv = 0,59 |
| GLAZING D = reflective double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |



# Natté 390



## Colours & references

front

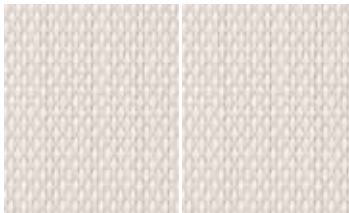
back



**Natté 390** 002002 white | white

front

back



**Natté 390** 002008 white | linen

front

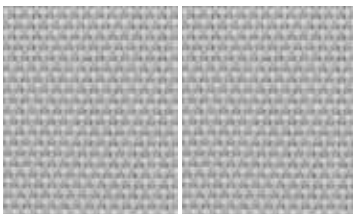
back



**Natté 390** 002007 white | pearl grey

front

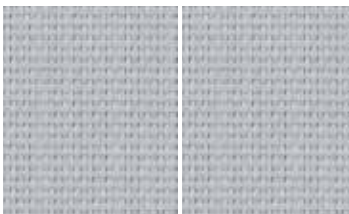
back



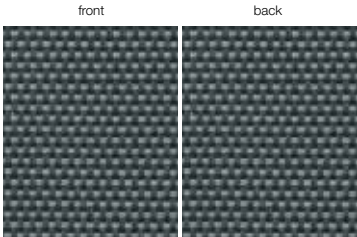
**Natté 390** 007008 pearl grey | linen

front

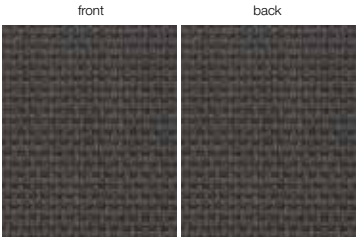
back



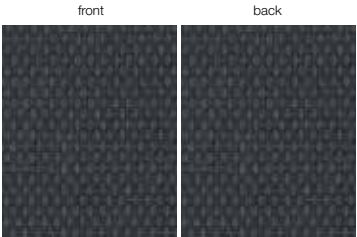
**Natté 390** 007007 pearl grey | pearl grey



Natté 390 010001 charcoal | grey



Natté 390 010011 charcoal | bronze



Natté 390 010010 charcoal | charcoal

| Natté 390                      | 200 cm | 250 cm | 320 cm |
|--------------------------------|--------|--------|--------|
| 002002 white   white           | •      | •      | •      |
| 002008 white   linen           | •      | •      | •      |
| 002007 white   pearl grey      | •      | •      | •      |
| 007008 pearl grey   linen      | •      | •      | •      |
| 007007 pearl grey   pearl grey | •      | •      | •      |
| 010001 charcoal   grey         | •      | •      | •      |
| 010011 charcoal   bronze       | •      | •      | •      |
| 010010 charcoal   charcoal     | •      | •      | •      |

# Natté 390



## Solar energetic properties

| Natté 390<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1 version 7.0 |                    |                                                                                    |                                                                                    |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |  |
|--------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--|
|                                                                                                        |                    |                                                                                    |                                                                                    |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                        |                    |                                                                                    |                                                                                    |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                        |                    |                                                                                    |                                                                                    |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |  |
| references                                                                                             | colours            |                                                                                    |                                                                                    |       | As = Solar Absorptance %   | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |  |
|                                                                                                        |                    | front                                                                              | back                                                                               |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 002002                                                                                                 | white   white      |   |   | front | 12,5                       | 61,4                     | 26,1                       | 0,38                                           | 0,39                            | 0,37                            | 0,25                            | 25,2                               | 8,3                      |  |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 12,5                       | 61,4                     | 26,1                       | 0,38                                           | 0,39                            | 0,37                            | 0,25                            | 25,2                               | 8,3                      |  |
| 002008                                                                                                 | white   linen      |   |   | front | 20,4                       | 55,8                     | 23,8                       | 0,40                                           | 0,42                            | 0,39                            | 0,26                            | 21,6                               | 9,4                      |  |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 20,4                       | 55,8                     | 23,8                       | 0,40                                           | 0,42                            | 0,39                            | 0,26                            | 21,6                               | 9,4                      |  |
| 002007                                                                                                 | white   pearl grey |   |   | front | 32,2                       | 51,4                     | 16,4                       | 0,41                                           | 0,43                            | 0,40                            | 0,26                            | 14,3                               | 5,5                      |  |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 32,2                       | 51,4                     | 16,4                       | 0,41                                           | 0,43                            | 0,40                            | 0,26                            | 14,3                               | 5,5                      |  |
| 007008                                                                                                 | pearl grey   linen |  |  | front | 51,4                       | 37,7                     | 10,9                       | 0,47                                           | 0,49                            | 0,44                            | 0,27                            | 8,1                                | 5,8                      |  |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 51,4                       | 37,7                     | 10,9                       | 0,47                                           | 0,49                            | 0,44                            | 0,27                            | 8,1                                | 5,8                      |  |

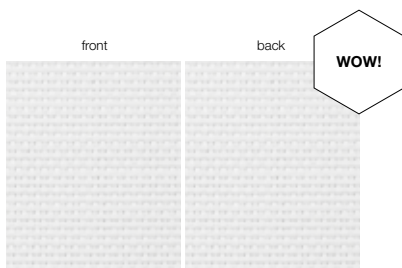
| Natté 390<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1 version 7.0 |                            |                                                                                    |                                                                                    |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |  |
|--------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--|
|                                                                                                        |                            |                                                                                    |                                                                                    |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                        |                            |                                                                                    |                                                                                    |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                        |                            |                                                                                    |                                                                                    |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |  |
| references                                                                                             | colours                    |                                                                                    |                                                                                    |       | As = Solar Absorbance %    | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |  |
|                                                                                                        |                            | front                                                                              | back                                                                               |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 007007                                                                                                 | pearl grey  <br>pearl grey |   |   | front | 57,6                       | 33,4                     | 9,0                        | 0,49                                           | 0,51                            | 0,45                            | 0,28                            | 6,7                                | 5,1                      |  |
|                                                                                                        |                            |                                                                                    |                                                                                    | back  | 57,6                       | 33,4                     | 9,0                        | 0,49                                           | 0,51                            | 0,45                            | 0,28                            | 6,7                                | 5,1                      |  |
| 010001                                                                                                 | charcoal   grey            |   |   | front | 83,2                       | 8,5                      | 8,3                        | 0,62                                           | 0,62                            | 0,53                            | 0,30                            | 8,2                                | 8,3                      |  |
|                                                                                                        |                            |                                                                                    |                                                                                    | back  | 83,2                       | 8,5                      | 8,3                        | 0,62                                           | 0,62                            | 0,53                            | 0,30                            | 8,2                                | 8,3                      |  |
| 010011                                                                                                 | charcoal   bronze          |   |   | front | 87,5                       | 6,8                      | 5,7                        | 0,62                                           | 0,63                            | 0,53                            | 0,30                            | 5,7                                | 5,7                      |  |
|                                                                                                        |                            |                                                                                    |                                                                                    | back  | 87,5                       | 6,8                      | 5,7                        | 0,62                                           | 0,63                            | 0,53                            | 0,30                            | 5,7                                | 5,7                      |  |
| 010010                                                                                                 | charcoal  <br>charcoal     |  |  | front | 88,2                       | 6,0                      | 5,8                        | 0,62                                           | 0,63                            | 0,54                            | 0,30                            | 5,8                                | 5,9                      |  |
|                                                                                                        |                            |                                                                                    |                                                                                    | back  | 88,2                       | 6,0                      | 5,8                        | 0,62                                           | 0,63                            | 0,54                            | 0,30                            | 5,8                                | 5,9                      |  |

|                                                                                                                      |           |
|----------------------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                                | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                                     | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon            | Gv = 0,59 |
| GLAZING D = reflective double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |

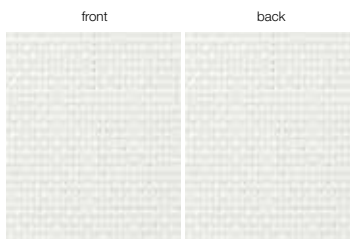
# Natté 420



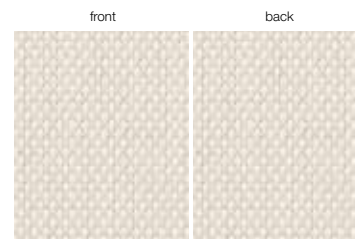
## Colours & references



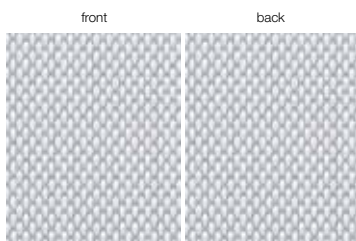
**Natté 420** 092092 WOW white



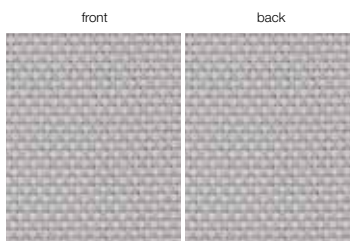
**Natté 420** 002002 white | white



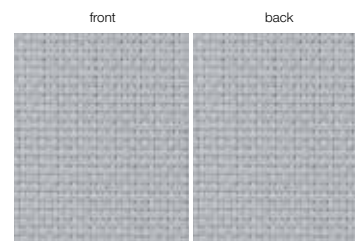
**Natté 420** 002008 white | linen



**Natté 420** 002007 white | pearl grey

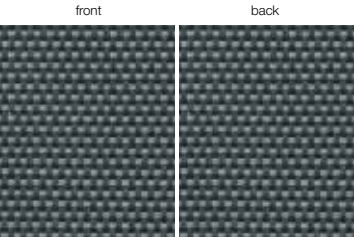


**Natté 420** 007008 pearl grey | linen

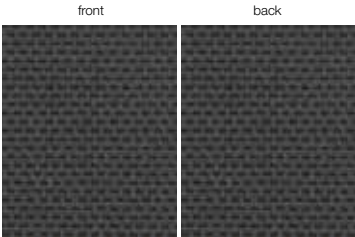


**Natté 420** 007007 pearl grey | pearl grey





Natté 420 010001 charcoal | grey



Natté 420 010011 charcoal | bronze



Natté 420 010010 charcoal | charcoal

| Natté 420                      | 200 cm | 250 cm | 320 cm |
|--------------------------------|--------|--------|--------|
| 092092 WOW white               |        | •      |        |
| 002002 white   white           | •      | •      | •      |
| 002008 white   linen           | •      | •      | •      |
| 002007 white   pearl grey      | •      | •      | •      |
| 007008 pearl grey   linen      | •      | •      | •      |
| 007007 pearl grey   pearl grey | •      | •      | •      |
| 010001 charcoal   grey         | •      | •      | •      |
| 010011 charcoal   bronze       | •      | •      | •      |
| 010010 charcoal   charcoal     | •      | •      | •      |

# Natté 420



## Solar energetic properties

| Natté 420<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1 version 7.0 |                    |                                                                                    |                                                                                    |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 | VISUAL PROPERTIES                  |                          |
|--------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|
|                                                                                                        |                    |                                                                                    |                                                                                    |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |
|                                                                                                        |                    |                                                                                    |                                                                                    |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |
|                                                                                                        |                    |                                                                                    |                                                                                    |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |
| references                                                                                             | colours            |                                                                                    |                                                                                    |       | As = Solar Absorbance %    | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |
|                                                                                                        |                    | front                                                                              | back                                                                               |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |
| 092092                                                                                                 | WOW white          |   |   | front | 8,5                        | 68,2                     | 23,3                       | 0,34                                           | 0,36                            | 0,35                            | 0,25                            | 21,1                               | 11,8                     |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 8,5                        | 68,2                     | 23,3                       | 0,34                                           | 0,36                            | 0,35                            | 0,25                            | 21,1                               | 11,8                     |
| 002002                                                                                                 | white   white      |   |   | front | 13,1                       | 66,2                     | 20,7                       | 0,34                                           | 0,36                            | 0,35                            | 0,25                            | 19,4                               | 3,5                      |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 13,1                       | 66,2                     | 20,7                       | 0,34                                           | 0,36                            | 0,35                            | 0,25                            | 19,4                               | 3,5                      |
| 002008                                                                                                 | white   linen      |   |   | front | 23,0                       | 59,1                     | 17,9                       | 0,38                                           | 0,39                            | 0,38                            | 0,26                            | 15,0                               | 4,2                      |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 23,0                       | 59,1                     | 17,9                       | 0,38                                           | 0,39                            | 0,38                            | 0,26                            | 15,0                               | 4,2                      |
| 002007                                                                                                 | white   pearl grey |   |   | front | 36,4                       | 48,9                     | 14,7                       | 0,42                                           | 0,44                            | 0,41                            | 0,26                            | 12,2                               | 5,1                      |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 36,4                       | 48,9                     | 14,7                       | 0,42                                           | 0,44                            | 0,41                            | 0,26                            | 12,2                               | 5,1                      |
| 007008                                                                                                 | pearl grey   linen |  |  | front | 52,6                       | 39,7                     | 7,7                        | 0,45                                           | 0,48                            | 0,43                            | 0,27                            | 5,0                                | 3,2                      |
|                                                                                                        |                    |                                                                                    |                                                                                    | back  | 52,6                       | 39,7                     | 7,7                        | 0,45                                           | 0,48                            | 0,43                            | 0,27                            | 5,0                                | 3,2                      |

| Natté 420<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1 version 7.0 |                            |                                                                                    |                                                                                    |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL<br>PROPERTIES     |  |
|--------------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--|
|                                                                                                        |                            |                                                                                    |                                                                                    |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                        |                            |                                                                                    |                                                                                    |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                        |                            |                                                                                    |                                                                                    |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |  |
| references                                                                                             | colours                    |                                                                                    |                                                                                    |       | As = Solar Absorptance %   | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |  |
|                                                                                                        |                            | front                                                                              | back                                                                               |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 007007                                                                                                 | pearl grey  <br>pearl grey |   |   | front | 60,1                       | 33,9                     | 6,0                        | 0,48                                           | 0,50                            | 0,45                            | 0,27                            | 4,0                                | 2,9                      |  |
|                                                                                                        |                            |                                                                                    |                                                                                    | back  | 60,1                       | 33,9                     | 6,0                        | 0,48                                           | 0,50                            | 0,45                            | 0,27                            | 4,0                                | 2,9                      |  |
| 010001                                                                                                 | charcoal   grey            |   |   | front | 86,8                       | 9,8                      | 3,4                        | 0,60                                           | 0,61                            | 0,52                            | 0,29                            | 3,3                                | 3,3                      |  |
|                                                                                                        |                            |                                                                                    |                                                                                    | back  | 86,8                       | 9,8                      | 3,4                        | 0,60                                           | 0,61                            | 0,52                            | 0,29                            | 3,3                                | 3,3                      |  |
| 010011                                                                                                 | charcoal   bronze          |   |   | front | 89,6                       | 7,1                      | 3,3                        | 0,61                                           | 0,62                            | 0,53                            | 0,30                            | 3,2                                | 3,3                      |  |
|                                                                                                        |                            |                                                                                    |                                                                                    | back  | 89,6                       | 7,1                      | 3,3                        | 0,61                                           | 0,62                            | 0,53                            | 0,30                            | 3,2                                | 3,3                      |  |
| 010010                                                                                                 | charcoal  <br>charcoal     |  |  | front | 90,6                       | 6,2                      | 3,2                        | 0,62                                           | 0,63                            | 0,54                            | 0,30                            | 3,2                                | 3,2                      |  |
|                                                                                                        |                            |                                                                                    |                                                                                    | back  | 90,6                       | 6,2                      | 3,2                        | 0,62                                           | 0,63                            | 0,54                            | 0,30                            | 3,2                                | 3,2                      |  |

|                                                                                                                      |           |
|----------------------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                                | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                                     | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon            | Gv = 0,59 |
| GLAZING D = reflective double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |



# Déco N203

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# Déco N203



## Technical specifications

| TECHNICAL SPECIFICATION             |                                           | UNITY            |      | STANDARD                                      | RESULT  |
|-------------------------------------|-------------------------------------------|------------------|------|-----------------------------------------------|---------|
| composition                         |                                           |                  |      | Glassfibre 36% - PVC 64%                      |         |
| openness factor                     |                                           | %                |      | NBN EN 410                                    | 3%      |
| weight                              |                                           | g/m <sup>2</sup> |      | NF EN 12127                                   | 435,9   |
| thickness                           |                                           | mm               |      | ISO 2286-3                                    | 0,551   |
| density                             |                                           | yarn/cm          | warp | ISO 7211/2                                    | 22      |
|                                     |                                           |                  | weft |                                               | 20      |
| colour fastness to artificial light |                                           |                  |      | ISO 105 B02                                   | >7      |
| tear strength                       | original                                  | daN              | warp | ISO 4674-1 method 2                           | 3,3     |
|                                     |                                           |                  | weft |                                               | 3,65    |
| elongation up to break              | original                                  | %                | warp | ISO 1421                                      | 8,8     |
|                                     |                                           |                  | weft |                                               | 2,8     |
| breaking strength                   | original                                  | daN/5 cm         | warp | ISO 1421                                      | 125     |
|                                     |                                           |                  | weft |                                               | 175     |
| elongation up to break              | after colour fastness to artificial light | %                | warp | ISO 1421                                      | 8,7     |
|                                     |                                           |                  | weft |                                               | 2,7     |
| breaking strength                   | after colour fastness to artificial light | daN/5 cm         | warp | ISO 1421                                      | 120     |
|                                     |                                           |                  | weft |                                               | 185     |
| tear strength                       | after climatic chamber -30°C              | daN              | warp | ISO 4674-1 method 2                           | 3       |
|                                     |                                           |                  | weft |                                               | 3,8     |
| elongation up to break              | after climatic chamber -30°C              | %                | warp | ISO 1421                                      | 8,6     |
|                                     |                                           |                  | weft |                                               | 1,8     |
| breaking strength                   | after climatic chamber -30°C              | daN/5 cm         | warp | ISO 1421                                      | 120     |
|                                     |                                           |                  | weft |                                               | 140     |
| tear strength                       | after climatic chamber +70°C              | daN              | warp | ISO 4674-1 method 2                           | 3,1     |
|                                     |                                           |                  | weft |                                               | 3,6     |
| elongation up to break              | after climatic chamber +70°C              | %                | warp | ISO 1421                                      | 8,9     |
|                                     |                                           |                  | weft |                                               | 1,9     |
| breaking strength                   | after climatic chamber +70°C              | daN/5 cm         | warp | ISO 1421                                      | 130     |
|                                     |                                           |                  | weft |                                               | 125     |
| fire classification                 | Europe                                    |                  |      | UNE-EN 13501-1:2007                           | C-s3,d0 |
|                                     | France                                    |                  |      | NF P92-503                                    | M1      |
|                                     | Italy                                     |                  |      | UNI 9177                                      | Class 1 |
|                                     | Germany                                   |                  |      | DIN 4102                                      | B1      |
|                                     | UK                                        |                  |      | BS 5867                                       | C       |
|                                     | USA                                       |                  |      | NFPA 701                                      | FR      |
|                                     | Spain                                     |                  |      | UNE EN 13773-2003                             | Clase 1 |
| roll length                         |                                           |                  |      | 30 m                                          |         |
| cleaning                            |                                           |                  |      | with soapy water                              |         |
| confection                          |                                           |                  |      | by heat, high frequency or ultrasonic welding |         |

These properties are given as indicative and don't have any contractual value





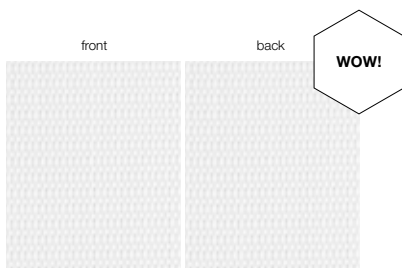
Déco N203



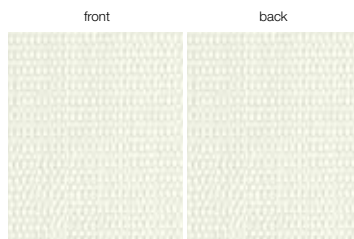
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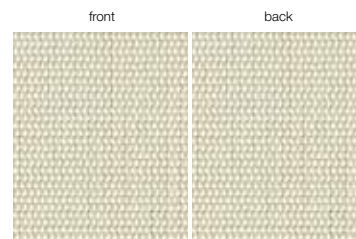
## Colours & references



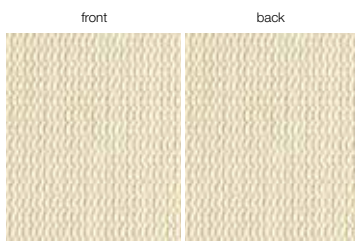
**Déco N203** 092092 WOW white



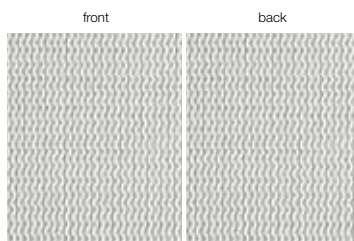
**Déco N203** 002002 white | white



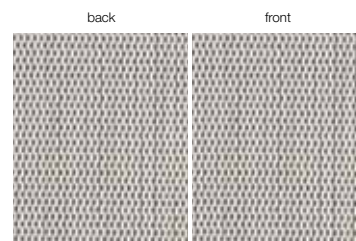
**Déco N203** 002008 white | linen



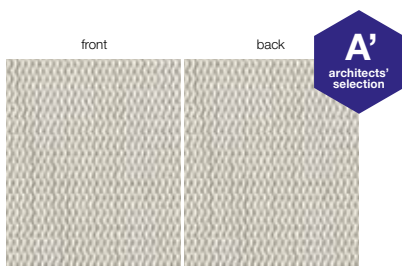
**Déco N203** 002003 white | sand



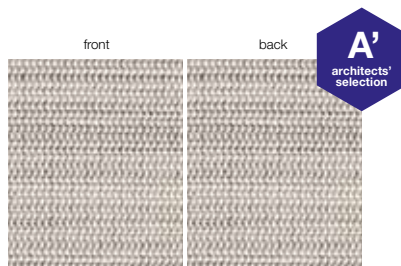
**Déco N203** 002007 white | pearl grey



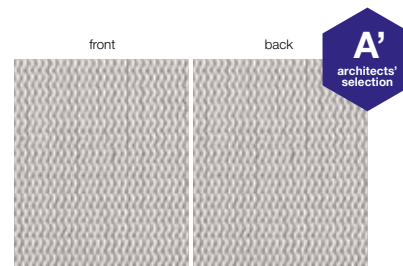
**Déco N203** 002001 white | grey



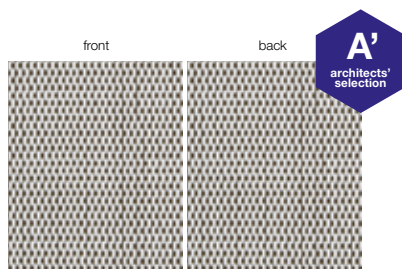
**Déco N203** 002032 white | wet sand



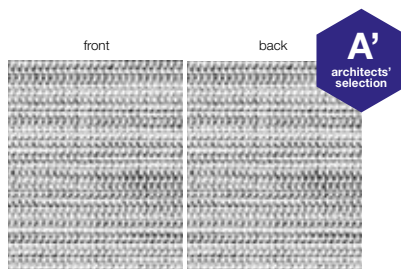
**Déco N203 bicolor** 002048 white | sand-bronze



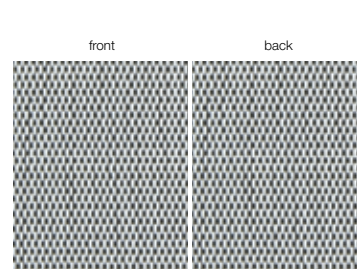
**Déco N203** 002034 white | plum blossom



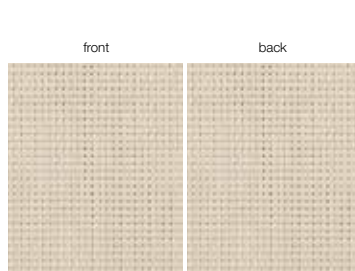
Déco N203 002035 white | melocake



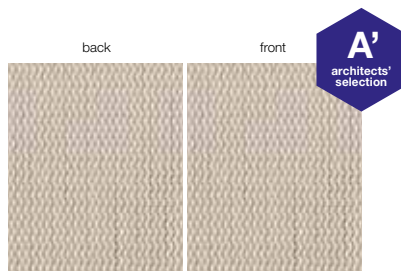
Déco N203 bicolor 002049 white | white-charcoal



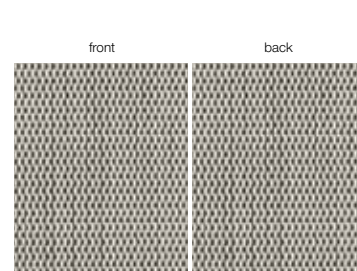
Déco N203 002010 white | charcoal



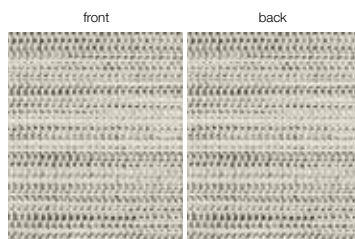
Déco N203 008008 linen | linen



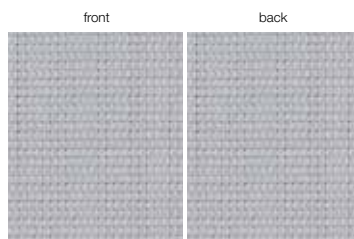
Déco N203 008034 linen | plum blossom



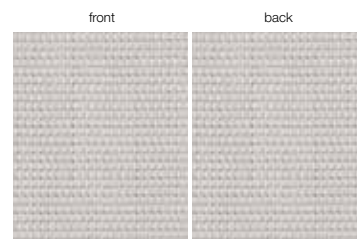
Déco N203 008010 linen | charcoal



Déco N203 bicolor 008049 linen | white-charcoal



Déco N203 007007 pearl grey | pearl grey

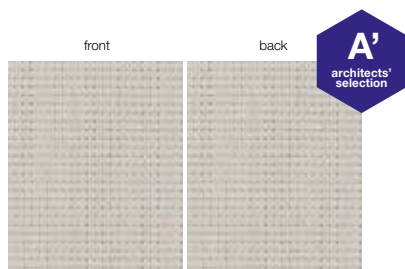


Déco N203 007008 pearl grey | linen

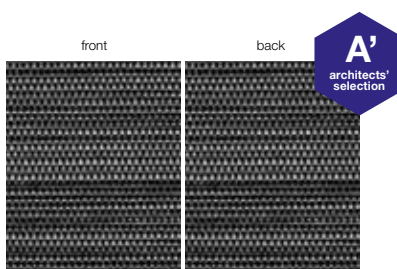
# Déco N203



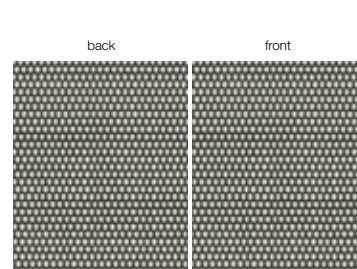
## Colours & references



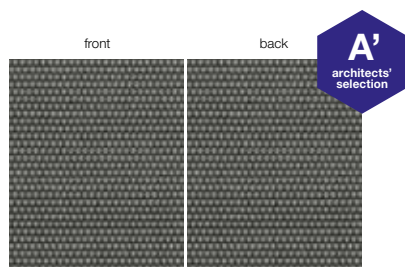
**Déco N203** 007003 pearl | grey sand



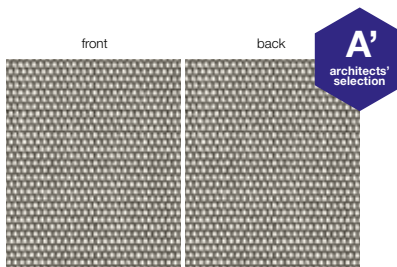
**Déco N203 bicolor** 010049 charcoal | white-charcoal



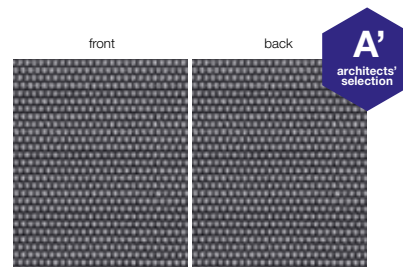
**Déco N203** 010008 charcoal | linen



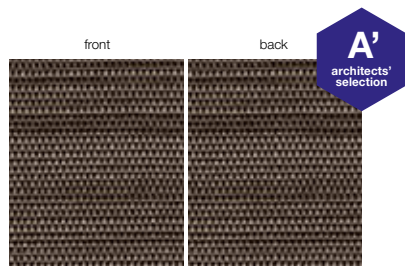
**Déco N203** 010031 charcoal | jade river



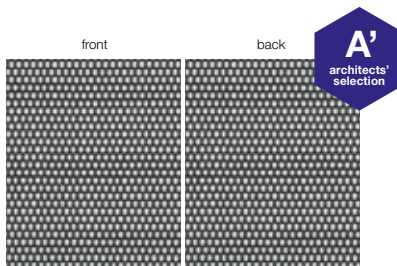
**Déco N203** 010024 charcoal | apricot



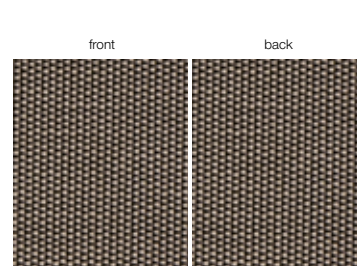
**Déco N203** 010034 charcoal | plum blossom



**Déco N203 bicolor** 010048 charcoal | sand-bronze



**Déco N203** 010023 charcoal | stone

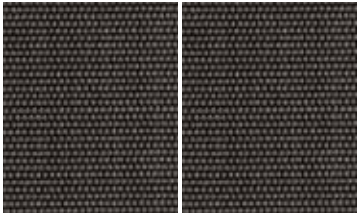


**Déco N203** 010003 charcoal | sand



front

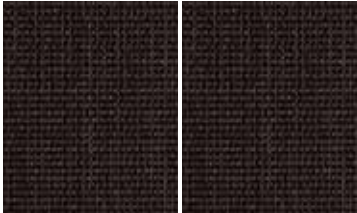
back



Déco N203 010001 charcoal | grey

back

front



Déco N203 010011 charcoal | bronze

front

back



Déco N203 010010 charcoal | charcoal

| Déco N203                        | 250 cm | 320 cm |
|----------------------------------|--------|--------|
| 092092 WOW white                 | •      |        |
| 002002 white   white             | •      | •      |
| 002008 white   linen             | •      | •      |
| 002003 white   sand              | •      | •      |
| 002007 white   pearl grey        | •      |        |
| 002001 white   grey              | •      |        |
| 002032 white   wet sand          | •      |        |
| 002048 white   sand-bronze       | •      |        |
| 002034 white   plum blossom      | •      |        |
| 002035 white   melocake          | •      |        |
| 002049 white   white-charcoal    | •      |        |
| 002010 white   charcoal          | •      |        |
| 008008 linen   linen             | •      |        |
| 008034 linen   plum blossom      | •      |        |
| 008010 linen   charcoal          | •      |        |
| 008049 linen   white-charcoal    | •      |        |
| 007007 pearl grey   pearl grey   | •      |        |
| 007008 pearl grey   linen        | •      |        |
| 007003 pearl grey   sand         | •      |        |
| 010049 charcoal   white-charcoal | •      |        |
| 010008 charcoal   linen          | •      |        |
| 010031 charcoal   jade river     | •      |        |
| 010024 charcoal   apricot        | •      |        |
| 010034 charcoal   plum blossom   | •      |        |
| 010048 charcoal   sand-bronze    | •      |        |
| 010023 charcoal   stone          | •      |        |
| 010003 charcoal   sand           | •      |        |
| 010001 charcoal   grey           | •      |        |
| 010011 charcoal   bronze         | •      |        |
| 010010 charcoal   charcoal       | •      |        |

# Déco N203



## Solar energetic properties

| Déco N203<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1, version 7.0 |                      |                                                                                     |                                                                                     |                         | SOLAR ENERGETIC PROPERTIES |                            |                                 |                                                |                                 |                                 |                                    |                          | VISUAL PROPERTIES |  |
|---------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|----------------------------|----------------------------|---------------------------------|------------------------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|-------------------|--|
|                                                                                                         |                      |                                                                                     |                                                                                     |                         | FABRIC                     |                            |                                 | FABRIC + GLAZING                               |                                 |                                 |                                    |                          |                   |  |
|                                                                                                         |                      |                                                                                     |                                                                                     |                         |                            |                            |                                 | INTERIOR                                       |                                 |                                 |                                    |                          |                   |  |
|                                                                                                         |                      |                                                                                     |                                                                                     |                         |                            |                            |                                 | G-factor =<br>total solar energy transmittance |                                 |                                 |                                    |                          |                   |  |
| references                                                                                              | colours              |                                                                                     |                                                                                     | As = Solar Absorbance % | Rs = Solar Reflectance %   | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8 | Glazing B - Gv = 0,76 - U = 2,9                | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |                   |  |
|                                                                                                         |                      | front                                                                               | back                                                                                |                         |                            |                            |                                 |                                                |                                 |                                 |                                    |                          |                   |  |
| 092092                                                                                                  | WOW white            |    |    | front                   | 8,6                        | 68,2                       | 23,2                            | 0,34                                           | 0,36                            | 0,35                            | 0,25                               | 21,1                     | 11,7              |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 8,6                        | 68,2                       | 23,2                            | 0,34                                           | 0,36                            | 0,35                            | 0,25                               | 21,1                     | 11,7              |  |
| 002002                                                                                                  | white   white        |    |    | front                   | 12,7                       | 68,1                       | 19,2                            | 0,34                                           | 0,36                            | 0,35                            | 0,25                               | 18,3                     | 5,0               |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 12,3                       | 68,5                       | 19,2                            | 0,34                                           | 0,36                            | 0,35                            | 0,25                               | 18,3                     | 5,0               |  |
| 002008                                                                                                  | white   linen        |    |    | front                   | 21,3                       | 62,5                       | 16,2                            | 0,37                                           | 0,38                            | 0,37                            | 0,25                               | 13,8                     | 5,3               |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 21,2                       | 62,6                       | 16,2                            | 0,37                                           | 0,38                            | 0,37                            | 0,25                               | 13,8                     | 5,3               |  |
| 002003                                                                                                  | white   sand         |   |   | front                   | 31,0                       | 56,5                       | 12,5                            | 0,40                                           | 0,41                            | 0,39                            | 0,26                               | 10,6                     | 4,6               |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 30,8                       | 56,6                       | 12,5                            | 0,40                                           | 0,41                            | 0,39                            | 0,26                               | 10,6                     | 4,6               |  |
| 002007                                                                                                  | white   pearl grey   |  |  | front                   | 35,9                       | 51,8                       | 12,3                            | 0,43                                           | 0,44                            | 0,40                            | 0,26                               | 10,2                     | 5,0               |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 35,6                       | 52,1                       | 12,3                            | 0,42                                           | 0,44                            | 0,40                            | 0,26                               | 10,2                     | 5,0               |  |
| 002001                                                                                                  | white   grey         |  |  | front                   | 48,2                       | 43,5                       | 8,4                             | 0,47                                           | 0,48                            | 0,43                            | 0,27                               | 7,8                      | 3,7               |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 48,0                       | 43,6                       | 8,4                             | 0,47                                           | 0,48                            | 0,43                            | 0,27                               | 7,8                      | 3,7               |  |
| 002032                                                                                                  | white   wet sand     |  |  | front                   | 39,7                       | 46,0                       | 14,3                            | 0,44                                           | 0,45                            | 0,42                            | 0,27                               | 11,5                     | 5,6               |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 39,7                       | 46,0                       | 14,3                            | 0,44                                           | 0,45                            | 0,42                            | 0,27                               | 11,5                     | 5,6               |  |
| 002048                                                                                                  | white   sand-bronze  |  |  | front                   | 41,3                       | 45,9                       | 12,8                            | 0,46                                           | 0,47                            | 0,42                            | 0,27                               | 10,6                     | 5,6               |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 41,3                       | 45,9                       | 12,8                            | 0,46                                           | 0,47                            | 0,42                            | 0,27                               | 10,6                     | 5,6               |  |
| 002034                                                                                                  | white   plum blossom |  |  | front                   | 40,7                       | 45,8                       | 13,5                            | 0,43                                           | 0,45                            | 0,42                            | 0,27                               | 11,0                     | 5,5               |  |
|                                                                                                         |                      |                                                                                     |                                                                                     | back                    | 40,7                       | 45,8                       | 13,5                            | 0,43                                           | 0,45                            | 0,42                            | 0,27                               | 11,0                     | 5,5               |  |

|                                                                                                           |           |
|-----------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                     | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                          | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon | Gv = 0,59 |
| ε double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon           | Gv = 0,32 |

Solar energetic properties

| Déco N203<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1, version 7.0 |                         |                                                                                     |                                                                                     |                          | SOLAR ENERGETIC PROPERTIES |                            |                                 |                                                |                                 |                                 |                                    |                          | VISUAL PROPERTIES |  |
|---------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------------------|---------------------------------|------------------------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|-------------------|--|
|                                                                                                         |                         |                                                                                     |                                                                                     |                          | FABRIC                     |                            |                                 | FABRIC + GLAZING                               |                                 |                                 |                                    |                          |                   |  |
|                                                                                                         |                         |                                                                                     |                                                                                     |                          |                            |                            |                                 | INTERIOR                                       |                                 |                                 |                                    |                          |                   |  |
|                                                                                                         |                         |                                                                                     |                                                                                     |                          |                            |                            |                                 | G-factor =<br>total solar energy transmittance |                                 |                                 |                                    |                          |                   |  |
| references                                                                                              | colours                 |                                                                                     |                                                                                     | As = Solar Absorptance % | Rs = Solar Reflectance %   | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8 | Glazing B - Gv = 0,76 - U = 2,9                | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |                   |  |
|                                                                                                         |                         | front                                                                               | back                                                                                |                          |                            |                            |                                 |                                                |                                 |                                 |                                    |                          |                   |  |
| 002035                                                                                                  | white   melocake        |    |    | front                    | 56,2                       | 33,4                       | 10,4                            | 0,49                                           | 0,51                            | 0,45                            | 0,28                               | 9,3                      | 5,6               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 56,2                       | 33,4                       | 10,4                            | 0,49                                           | 0,51                            | 0,45                            | 0,28                               | 9,3                      | 5,6               |  |
| 002049                                                                                                  | white   white-charcoal  |    |    | front                    | 36,9                       | 48,7                       | 14,4                            | 0,45                                           | 0,45                            | 0,41                            | 0,27                               | 13,2                     | 5,6               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 36,9                       | 48,7                       | 14,4                            | 0,45                                           | 0,45                            | 0,41                            | 0,27                               | 13,2                     | 5,6               |  |
| 002010                                                                                                  | white   charcoal        |    |    | front                    | 59,2                       | 32,5                       | 8,3                             | 0,49                                           | 0,51                            | 0,46                            | 0,28                               | 7,8                      | 4,6               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 59,2                       | 32,5                       | 8,3                             | 0,49                                           | 0,51                            | 0,46                            | 0,28                               | 7,8                      | 4,6               |  |
| 008008                                                                                                  | linen   linen           |   |   | front                    | 34,5                       | 50,4                       | 15,1                            | 0,41                                           | 0,43                            | 0,40                            | 0,26                               | 11,1                     | 5,2               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 34,5                       | 50,4                       | 15,1                            | 0,41                                           | 0,43                            | 0,40                            | 0,26                               | 11,1                     | 5,2               |  |
| 008034                                                                                                  | linen   plum blossom    |  |  | front                    | 48,1                       | 40,3                       | 11,6                            | 0,46                                           | 0,48                            | 0,43                            | 0,27                               | 8,8                      | 5,5               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 48,1                       | 40,3                       | 11,6                            | 0,46                                           | 0,48                            | 0,43                            | 0,27                               | 8,8                      | 5,5               |  |
| 008010                                                                                                  | linen   charcoal        |  |  | front                    | 64,4                       | 28,3                       | 7,3                             | 0,51                                           | 0,53                            | 0,47                            | 0,28                               | 6,5                      | 4,5               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 64,4                       | 28,3                       | 7,3                             | 0,51                                           | 0,53                            | 0,47                            | 0,28                               | 6,5                      | 4,5               |  |
| 008049                                                                                                  | linen   white-charcoal  |  |  | front                    | 49,9                       | 39,2                       | 10,9                            | 0,46                                           | 0,48                            | 0,44                            | 0,27                               | 9,2                      | 5,7               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 49,9                       | 39,2                       | 10,9                            | 0,46                                           | 0,48                            | 0,44                            | 0,27                               | 9,2                      | 5,7               |  |
| 007007                                                                                                  | pearl grey   pearl grey |  |  | front                    | 61,3                       | 32,2                       | 6,5                             | 0,49                                           | 0,51                            | 0,46                            | 0,28                               | 4,8                      | 3,8               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 61,3                       | 32,2                       | 6,5                             | 0,49                                           | 0,51                            | 0,46                            | 0,28                               | 4,8                      | 3,8               |  |
| 007008                                                                                                  | pearl grey   linen      |  |  | front                    | 52,2                       | 39,1                       | 8,7                             | 0,46                                           | 0,48                            | 0,43                            | 0,27                               | 6,0                      | 3,9               |  |
|                                                                                                         |                         |                                                                                     |                                                                                     | back                     | 52,2                       | 39,1                       | 8,7                             | 0,46                                           | 0,48                            | 0,43                            | 0,27                               | 6,0                      | 3,9               |  |




| Déco N203<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1, version 7.0 |                           |                                                                                     |                                                                                     |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |  |
|---------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--|
|                                                                                                         |                           |                                                                                     |                                                                                     |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                         |                           |                                                                                     |                                                                                     |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                         |                           |                                                                                     |                                                                                     |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |  |
| references                                                                                              | colours                   |                                                                                     |                                                                                     |       | As = Solar Absorbance %    | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |  |
|                                                                                                         |                           | front                                                                               | back                                                                                |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 007003                                                                                                  | pearl grey   sand         |    |    | front | 55,4                       | 36,2                     | 8,4                        | 0,47                                           | 0,49                            | 0,44                            | 0,27                            | 5,5                                | 3,8                      |  |
|                                                                                                         |                           |                                                                                     |                                                                                     | back  | 55,4                       | 36,2                     | 8,4                        | 0,47                                           | 0,49                            | 0,44                            | 0,27                            | 5,5                                | 3,8                      |  |
| 010049                                                                                                  | charcoal   white-charcoal |    |    | front | 81,0                       | 14,7                     | 4,3                        | 0,63                                           | 0,62                            | 0,52                            | 0,30                            | 4,2                                | 3,9                      |  |
|                                                                                                         |                           |                                                                                     |                                                                                     | back  | 81,0                       | 14,7                     | 4,3                        | 0,63                                           | 0,62                            | 0,52                            | 0,30                            | 4,2                                | 3,9                      |  |
| 010008                                                                                                  | charcoal   linen          |    |    | front | 75,5                       | 18,6                     | 5,9                        | 0,56                                           | 0,57                            | 0,50                            | 0,29                            | 5,5                                | 4,9                      |  |
|                                                                                                         |                           |                                                                                     |                                                                                     | back  | 75,5                       | 18,6                     | 5,9                        | 0,56                                           | 0,57                            | 0,50                            | 0,29                            | 5,5                                | 4,9                      |  |
| 010031                                                                                                  | charcoal   jade river     |    |    | front | 84,4                       | 9,5                      | 6,1                        | 0,61                                           | 0,62                            | 0,53                            | 0,29                            | 5,9                                | 5,8                      |  |
|                                                                                                         |                           |                                                                                     |                                                                                     | back  | 84,4                       | 9,5                      | 6,1                        | 0,61                                           | 0,62                            | 0,53                            | 0,29                            | 5,9                                | 5,8                      |  |
| 010024                                                                                                  | charcoal   apricot        |  |  | front | 75,8                       | 17,2                     | 7,0                        | 0,57                                           | 0,58                            | 0,50                            | 0,29                            | 6,5                                | 5,7                      |  |
|                                                                                                         |                           |                                                                                     |                                                                                     | back  | 75,8                       | 17,2                     | 7,0                        | 0,57                                           | 0,58                            | 0,50                            | 0,29                            | 6,5                                | 5,7                      |  |
| 010034                                                                                                  | charcoal   plum blossom   |  |  | front | 80,8                       | 12,8                     | 6,4                        | 0,59                                           | 0,60                            | 0,52                            | 0,29                            | 6,1                                | 5,9                      |  |
|                                                                                                         |                           |                                                                                     |                                                                                     | back  | 80,8                       | 12,8                     | 6,4                        | 0,59                                           | 0,60                            | 0,52                            | 0,29                            | 6,1                                | 5,9                      |  |
| 010048                                                                                                  | charcoal   sand-bronze    |  |  | front | 83,3                       | 13,2                     | 3,5                        | 0,64                                           | 0,63                            | 0,53                            | 0,30                            | 3,3                                | 3,3                      |  |
|                                                                                                         |                           |                                                                                     |                                                                                     | back  | 83,3                       | 13,2                     | 3,5                        | 0,64                                           | 0,63                            | 0,53                            | 0,30                            | 3,3                                | 3,3                      |  |
| 010023                                                                                                  | charcoal   stone          |  |  | front | 74,6                       | 19,2                     | 6,2                        | 0,56                                           | 0,57                            | 0,50                            | 0,29                            | 6,0                                | 4,9                      |  |
|                                                                                                         |                           |                                                                                     |                                                                                     | back  | 74,6                       | 19,2                     | 6,2                        | 0,56                                           | 0,57                            | 0,50                            | 0,29                            | 6,0                                | 4,9                      |  |

|                                                                                                           |           |
|-----------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                     | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                          | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon | Gv = 0,59 |
| GLAZING D = double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |

Solar energetic properties

| Déco N203<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1, version 7.0 |                     |                                                                                    |                                                                                    | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |     |
|---------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|-----|
|                                                                                                         |                     |                                                                                    |                                                                                    | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |     |
|                                                                                                         |                     |                                                                                    |                                                                                    |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |     |
|                                                                                                         |                     |                                                                                    |                                                                                    |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |     |
| references                                                                                              | colours             |                                                                                    |                                                                                    | As = Solar Absorptance %   | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |     |
|                                                                                                         |                     | front                                                                              | back                                                                               |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |     |
| 010003                                                                                                  | charcoal   sand     |   |   | front                      | 77,2                     | 17,0                       | 5,8                                            | 0,62                            | 0,61                            | 0,51                            | 0,29                               | 5,4                      | 5,0 |
|                                                                                                         |                     |                                                                                    |                                                                                    | back                       | 77,2                     | 17,0                       | 5,8                                            | 0,62                            | 0,61                            | 0,51                            | 0,29                               | 5,4                      | 5,0 |
| 010001                                                                                                  | charcoal   grey     |   |   | front                      | 85,3                     | 9,4                        | 5,2                                            | 0,66                            | 0,65                            | 0,54                            | 0,30                               | 5,2                      | 5,1 |
|                                                                                                         |                     |                                                                                    |                                                                                    | back                       | 85,3                     | 9,4                        | 5,2                                            | 0,66                            | 0,65                            | 0,54                            | 0,30                               | 5,2                      | 5,1 |
| 010011                                                                                                  | charcoal   bronze   |   |   | front                      | 87,1                     | 6,5                        | 6,4                                            | 0,68                            | 0,66                            | 0,55                            | 0,30                               | 6,3                      | 6,3 |
|                                                                                                         |                     |                                                                                    |                                                                                    | back                       | 87,1                     | 6,5                        | 6,4                                            | 0,68                            | 0,66                            | 0,55                            | 0,30                               | 6,3                      | 6,3 |
| 010010                                                                                                  | charcoal   charcoal |  |  | front                      | 88,8                     | 5,7                        | 5,5                                            | 0,69                            | 0,67                            | 0,55                            | 0,30                               | 5,5                      | 5,5 |
|                                                                                                         |                     |                                                                                    |                                                                                    | back                       | 88,8                     | 5,7                        | 5,5                                            | 0,69                            | 0,67                            | 0,55                            | 0,30                               | 5,5                      | 5,5 |





# Verso

COLLECTION 2018-2021  
THERMAL TRANQUILITY  
GLASSFIBRE  
OF= 1-3%

# Ventex®

**Perfect thermal  
comfort even  
on the hottest  
summer days.  
Meet Cool.**

**Ventex®**





# Verso 1%

OF = 1%

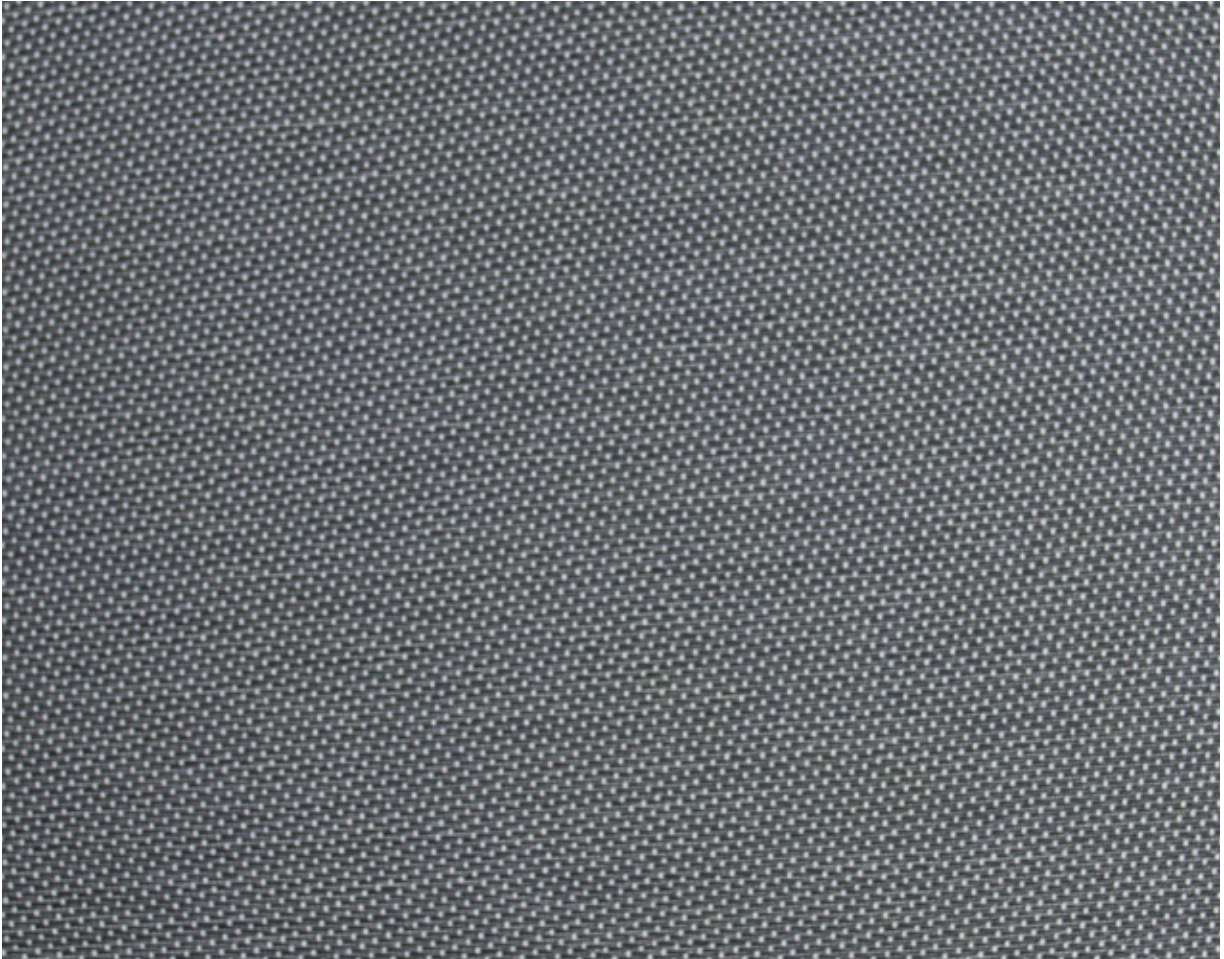
Verso 1%



# Verso 3%

OF = 3%

Verso 3%





# Verso 1%

OF = 1%

## Technical specifications

| TECHNICAL SPECIFICATION             |                                           | UNITY            |      | STANDARD                                      | RESULT  |
|-------------------------------------|-------------------------------------------|------------------|------|-----------------------------------------------|---------|
| composition                         |                                           |                  |      | Glassfibre 36% - PVC 64%                      |         |
| openness factor                     |                                           | %                |      | NBN EN 410                                    | 1%      |
| weight                              |                                           | g/m <sup>2</sup> |      | NF EN 12127                                   | 480,6   |
| thickness                           |                                           | mm               |      | ISO 2286-3                                    | 0,694   |
| density                             |                                           | yarn/cm          | warp | ISO 7211/2                                    | 24      |
|                                     |                                           |                  | weft |                                               | 25      |
| colour fastness to artificial light |                                           |                  |      | ISO 105 B02                                   | >7      |
| tear strength                       | original                                  | daN              | warp | ISO 4674-1 method 2                           | 2,2     |
|                                     |                                           |                  | weft |                                               | 2,4     |
| elongation up to break              | original                                  | %                | warp | ISO 1421                                      | 2,85    |
|                                     |                                           |                  | weft |                                               | 2,4     |
| breaking strength                   | original                                  | daN/5 cm         | warp | ISO 1421                                      | 185     |
|                                     |                                           |                  | weft |                                               | 130     |
| elongation up to break              | after colour fastness to artificial light | %                | warp | ISO 1421                                      | 3,1     |
|                                     |                                           |                  | weft |                                               | 2,9     |
| breaking strength                   | after colour fastness to artificial light | daN/5 cm         | warp | ISO 1421                                      | 175     |
|                                     |                                           |                  | weft |                                               | 140     |
| tear strength                       | after climatic chamber -30°C              | daN              | warp | ISO 4674-1 method 2                           | 2,05    |
|                                     |                                           |                  | weft |                                               | 2,1     |
| elongation up to break              | after climatic chamber -30°C              | %                | warp | ISO 1421                                      | 2,1     |
|                                     |                                           |                  | weft |                                               | 2,6     |
| breaking strength                   | after climatic chamber -30°C              | daN/5 cm         | warp | ISO 1421                                      | 115     |
|                                     |                                           |                  | weft |                                               | 120     |
| tear strength                       | after climatic chamber +70°C              | daN              | warp | ISO 4674-1 method 2                           | 2,3     |
|                                     |                                           |                  | weft |                                               | 2,7     |
| elongation up to break              | after climatic chamber +70°C              | %                | warp | ISO 1421                                      | 2       |
|                                     |                                           |                  | weft |                                               | 2,7     |
| breaking strength                   | after climatic chamber +70°C              | daN/5 cm         | warp | ISO 1421                                      | 100     |
|                                     |                                           |                  | weft |                                               | 100     |
| fire classification                 | Europe                                    |                  |      | UNE-EN 13501-1:2007                           | C-s3,d0 |
|                                     | France                                    |                  |      | NF P92-503                                    | M1      |
|                                     | Italy                                     |                  |      | UNI 9177                                      | Class 1 |
|                                     | Germany                                   |                  |      | DIN 4102                                      | B1      |
|                                     | UK                                        |                  |      | BS 5867                                       | C       |
|                                     | USA                                       |                  |      | NFPA 701                                      | FR      |
|                                     | Spain                                     |                  |      | UNE EN 13773-2003                             | Clase 1 |
| roll length                         |                                           |                  |      | 30 m                                          |         |
| cleaning                            |                                           |                  |      | with soapy water                              |         |
| confection                          |                                           |                  |      | by heat, high frequency or ultrasonic welding |         |

These properties are given as indicative and don't have any contractual value



# Verso 3%

OF = 3%

## Technical specifications

| TECHNICAL SPECIFICATION             |                                           | UNITY            |      | STANDARD                                      | RESULT  |
|-------------------------------------|-------------------------------------------|------------------|------|-----------------------------------------------|---------|
| composition                         |                                           |                  |      | Glassfibre 36% - PVC 64%                      |         |
| openness factor                     |                                           | %                |      | NBN EN 410                                    | 3%      |
| weight                              |                                           | g/m <sup>2</sup> |      | NF EN 12127                                   | 452,8   |
| thickness                           |                                           | mm               |      | ISO 2286-3                                    | 0,693   |
| density                             |                                           | yarn/cm          | warp | ISO 7211/2                                    | 24      |
|                                     |                                           |                  | weft |                                               | 23      |
| colour fastness to artificial light |                                           |                  |      | ISO 105 B02                                   | >7      |
| tear strength                       | original                                  | daN              | warp | ISO 4674-1 method 2                           | 5,9     |
|                                     |                                           |                  | weft |                                               | 4,6     |
| elongation up to break              | original                                  | %                | warp | ISO 1421                                      | 2,7     |
|                                     |                                           |                  | weft |                                               | 3,6     |
| breaking strength                   | original                                  | daN/5 cm         | warp | ISO 1421                                      | 155     |
|                                     |                                           |                  | weft |                                               | 180     |
| elongation up to break              | after colour fastness to artificial light | %                | warp | ISO 1421                                      | 2,9     |
|                                     |                                           |                  | weft |                                               | 3,3     |
| breaking strength                   | after colour fastness to artificial light | daN/5 cm         | warp | ISO 1421                                      | 160     |
|                                     |                                           |                  | weft |                                               | 170     |
| tear strength                       | after climatic chamber -30°C              | daN              | warp | ISO 4674-1 method 2                           | 6,3     |
|                                     |                                           |                  | weft |                                               | 5,5     |
| elongation up to break              | after climatic chamber -30°C              | %                | warp | ISO 1421                                      | 2,75    |
|                                     |                                           |                  | weft |                                               | 2,4     |
| breaking strength                   | after climatic chamber -30°C              | daN/5 cm         | warp | ISO 1421                                      | 150     |
|                                     |                                           |                  | weft |                                               | 110     |
| tear strength                       | after climatic chamber +70°C              | daN              | warp | ISO 4674-1 method 2                           | 6       |
|                                     |                                           |                  | weft |                                               | 4,7     |
| elongation up to break              | after climatic chamber +70°C              | %                | warp | ISO 1421                                      | 2,3     |
|                                     |                                           |                  | weft |                                               | 2,35    |
| breaking strength                   | after climatic chamber +70°C              | daN/5 cm         | warp | ISO 1421                                      | 100     |
|                                     |                                           |                  | weft |                                               | 100     |
| fire classification                 | Europe                                    |                  |      | UNE-EN 13501-1:2007                           | C-s3,d0 |
|                                     | France                                    |                  |      | NF P92-503                                    | M1      |
|                                     | Italy                                     |                  |      | UNI 9177                                      | Class 1 |
|                                     | Germany                                   |                  |      | DIN 4102                                      | B1      |
|                                     | UK                                        |                  |      | BS 5867                                       | C       |
|                                     | USA                                       |                  |      | NFPA 701                                      | FR      |
|                                     | Spain                                     |                  |      | UNE EN 13773-2003                             | Clase 1 |
| roll length                         |                                           |                  |      | 30 m                                          |         |
| cleaning                            |                                           |                  |      | with soapy water                              |         |
| confection                          |                                           |                  |      | by heat, high frequency or ultrasonic welding |         |

These properties are given as indicative and don't have any contractual value



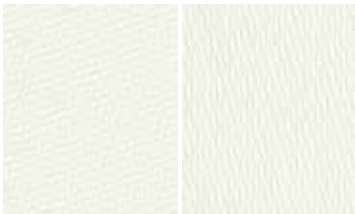
# Verso 1%



## Colours & references

front

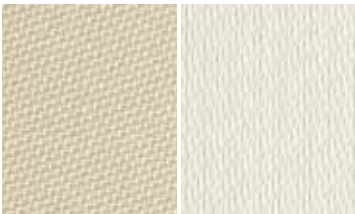
back



**Verso 1%** 002002 white | white

front

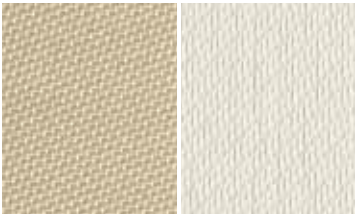
back



**Verso 1%** 002008 white | linen

front

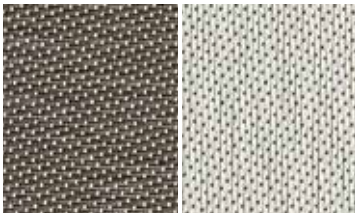
back



**Verso 1%** 002003 white | sand

front

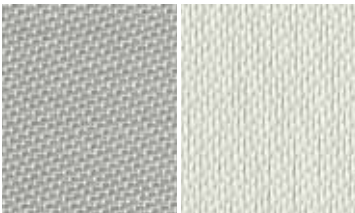
back



**Verso 1%** 002011 white | bronze

front

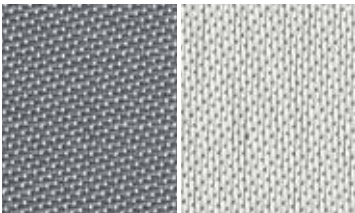
back



**Verso 1%** 002007 white | pearl grey

front

back



**Verso 1%** 002001 white | grey

### Verso 1%

160 cm

250 cm

320 cm

002002 white | white

•

•

•

002008 white | linen

•

•

•

002003 white | sand

•

•

•

002011 white | bronze

•

•

•

002007 white | pearl grey

•

•

•

002001 white | grey

•

•

•

002010 white | charcoal

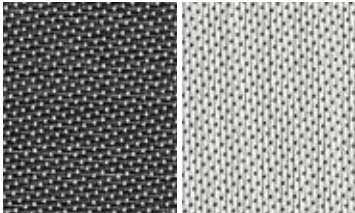
•

•

•

front

back



**Verso 1%** 002010 white | charcoal

Solar energetic properties

| Verso 1%<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1 version 7.0 |                    |                                                                                     |                                                                                     |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |  |
|-------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--|
|                                                                                                       |                    |                                                                                     |                                                                                     |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                       |                    |                                                                                     |                                                                                     |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                       |                    |                                                                                     |                                                                                     |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |  |
| references                                                                                            | colours            |                                                                                     |                                                                                     |       | As = Solar Absorbance %    | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |  |
|                                                                                                       |                    | front                                                                               | back                                                                                |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 002002                                                                                                | white   white      |    |    | front | 15,1                       | 65,7                     | 19,2                       | 0,35                                           | 0,37                            | 0,36                            | 0,25                            | 18,5                               | 2,0                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 15,0                       | 65,8                     | 19,2                       | 0,35                                           | 0,37                            | 0,36                            | 0,25                            | 18,5                               | 2,0                      |  |
| 002008                                                                                                | white   linen      |    |    | front | 32,4                       | 53,5                     | 14,1                       | 0,42                                           | 0,43                            | 0,40                            | 0,26                            | 11,3                               | 1,9                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 24,2                       | 61,7                     | 14,1                       | 0,37                                           | 0,39                            | 0,37                            | 0,25                            | 11,3                               | 1,9                      |  |
| 002003                                                                                                | white   sand       |    |    | front | 38,8                       | 48,2                     | 13,0                       | 0,45                                           | 0,46                            | 0,41                            | 0,27                            | 9,2                                | 1,8                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 27,7                       | 59,3                     | 13,0                       | 0,38                                           | 0,40                            | 0,38                            | 0,26                            | 9,2                                | 1,8                      |  |
| 002011                                                                                                | white   bronze     |   |   | front | 80,9                       | 14,4                     | 4,7                        | 0,63                                           | 0,62                            | 0,52                            | 0,30                            | 4,0                                | 1,9                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 49,9                       | 45,4                     | 4,7                        | 0,45                                           | 0,46                            | 0,42                            | 0,27                            | 4,0                                | 1,9                      |  |
| 002007                                                                                                | white   pearl grey |  |  | front | 53,2                       | 37,5                     | 9,3                        | 0,51                                           | 0,51                            | 0,45                            | 0,28                            | 7,0                                | 2,1                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 36,1                       | 54,6                     | 9,3                        | 0,41                                           | 0,42                            | 0,39                            | 0,26                            | 7,0                                | 2,1                      |  |
| 002001                                                                                                | white   grey       |  |  | front | 75,2                       | 20,7                     | 4,1                        | 0,60                                           | 0,59                            | 0,50                            | 0,29                            | 3,2                                | 1,4                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 47,6                       | 48,3                     | 4,1                        | 0,44                                           | 0,45                            | 0,41                            | 0,27                            | 3,2                                | 1,4                      |  |
| 002010                                                                                                | white   charcoal   |  |  | front | 86,1                       | 11,1                     | 2,8                        | 0,65                                           | 0,64                            | 0,53                            | 0,30                            | 2,7                                | 1,4                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 53,9                       | 43,3                     | 2,8                        | 0,46                                           | 0,47                            | 0,43                            | 0,27                            | 2,7                                | 1,4                      |  |

|                                                                                                                      |           |
|----------------------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                                | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                                     | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon            | Gv = 0,59 |
| GLAZING D = reflective double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |

# Verso 3%



## Colours & references



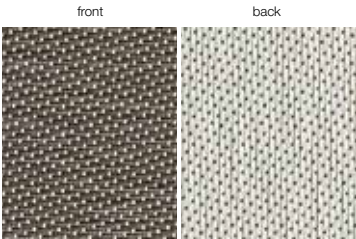
**Verso 3%** 002002 white | white



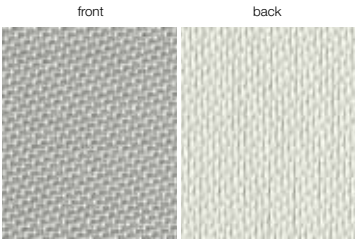
**Verso 3%** 002008 white | linen



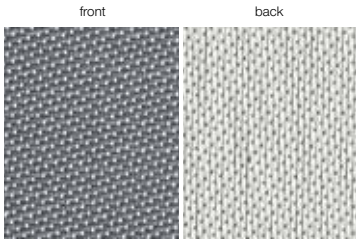
**Verso 3%** 002003 white | sand



**Verso 3%** 002011 white | bronze

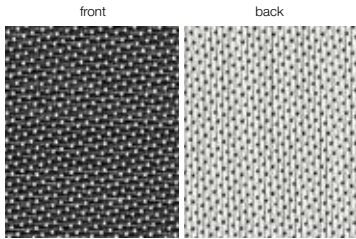


**Verso 3%** 002007 white | pearl grey



**Verso 3%** 002001 white | grey

| Verso 3%                  | 160 cm | 250 cm | 320 cm |
|---------------------------|--------|--------|--------|
| 002002 white   white      | •      | •      | •      |
| 002008 white   linen      | •      | •      | •      |
| 002003 white   sand       | •      | •      | •      |
| 002011 white   bronze     | •      | •      | •      |
| 002007 white   pearl grey | •      | •      | •      |
| 002001 white   grey       | •      | •      | •      |
| 002010 white   charcoal   | •      | •      | •      |



**Verso 3%** 002010 white | charcoal



Solar energetic properties

| Verso 3%<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1 version 7.0 |                    |                                                                                     |                                                                                     |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |  |
|-------------------------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--|
|                                                                                                       |                    |                                                                                     |                                                                                     |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                       |                    |                                                                                     |                                                                                     |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |  |
|                                                                                                       |                    |                                                                                     |                                                                                     |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |  |
| references                                                                                            | colours            |                                                                                     |                                                                                     |       | As = Solar Absorbance %    | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |  |
|                                                                                                       |                    | front                                                                               | back                                                                                |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 002002                                                                                                | white   white      |    |    | front | 13,4                       | 65,8                     | 20,8                       | 0,36                                           | 0,37                            | 0,36                            | 0,25                            | 20,1                               | 3,0                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 13,0                       | 66,2                     | 20,8                       | 0,35                                           | 0,37                            | 0,36                            | 0,25                            | 20,1                               | 3,0                      |  |
| 002008                                                                                                | white   linen      |    |    | front | 29,0                       | 53,7                     | 17,3                       | 0,42                                           | 0,43                            | 0,40                            | 0,26                            | 14,9                               | 3,2                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 21,2                       | 61,4                     | 17,3                       | 0,38                                           | 0,39                            | 0,37                            | 0,25                            | 14,9                               | 3,2                      |  |
| 002003                                                                                                | white   sand       |    |    | front | 35,6                       | 49,0                     | 15,4                       | 0,45                                           | 0,45                            | 0,41                            | 0,27                            | 12,0                               | 3,0                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 24,7                       | 59,9                     | 15,4                       | 0,38                                           | 0,40                            | 0,38                            | 0,26                            | 12,0                               | 3,0                      |  |
| 002011                                                                                                | white   bronze     |   |   | front | 73,1                       | 17,6                     | 9,3                        | 0,62                                           | 0,61                            | 0,51                            | 0,29                            | 7,9                                | 4,0                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 45,0                       | 45,7                     | 9,3                        | 0,46                                           | 0,47                            | 0,42                            | 0,27                            | 7,9                                | 4,0                      |  |
| 002007                                                                                                | white   pearl grey |  |  | front | 50,2                       | 37,6                     | 12,2                       | 0,51                                           | 0,51                            | 0,45                            | 0,28                            | 10,3                               | 3,6                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 32,9                       | 54,8                     | 12,2                       | 0,41                                           | 0,42                            | 0,39                            | 0,26                            | 10,3                               | 3,6                      |  |
| 002001                                                                                                | white   grey       |  |  | front | 69,6                       | 22,2                     | 8,2                        | 0,59                                           | 0,59                            | 0,50                            | 0,29                            | 7,3                                | 3,2                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 43,1                       | 48,7                     | 8,2                        | 0,44                                           | 0,45                            | 0,41                            | 0,27                            | 7,3                                | 3,2                      |  |
| 002010                                                                                                | white   charcoal   |  |  | front | 81,6                       | 12,0                     | 6,3                        | 0,65                                           | 0,64                            | 0,53                            | 0,30                            | 6,2                                | 3,2                      |  |
|                                                                                                       |                    |                                                                                     |                                                                                     | back  | 48,4                       | 45,2                     | 6,3                        | 0,46                                           | 0,47                            | 0,42                            | 0,27                            | 6,2                                | 3,2                      |  |

|                                                                                                                      |           |
|----------------------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                                | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                                     | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon            | Gv = 0,59 |
| GLAZING D = reflective double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |



# Blockout Déco N203

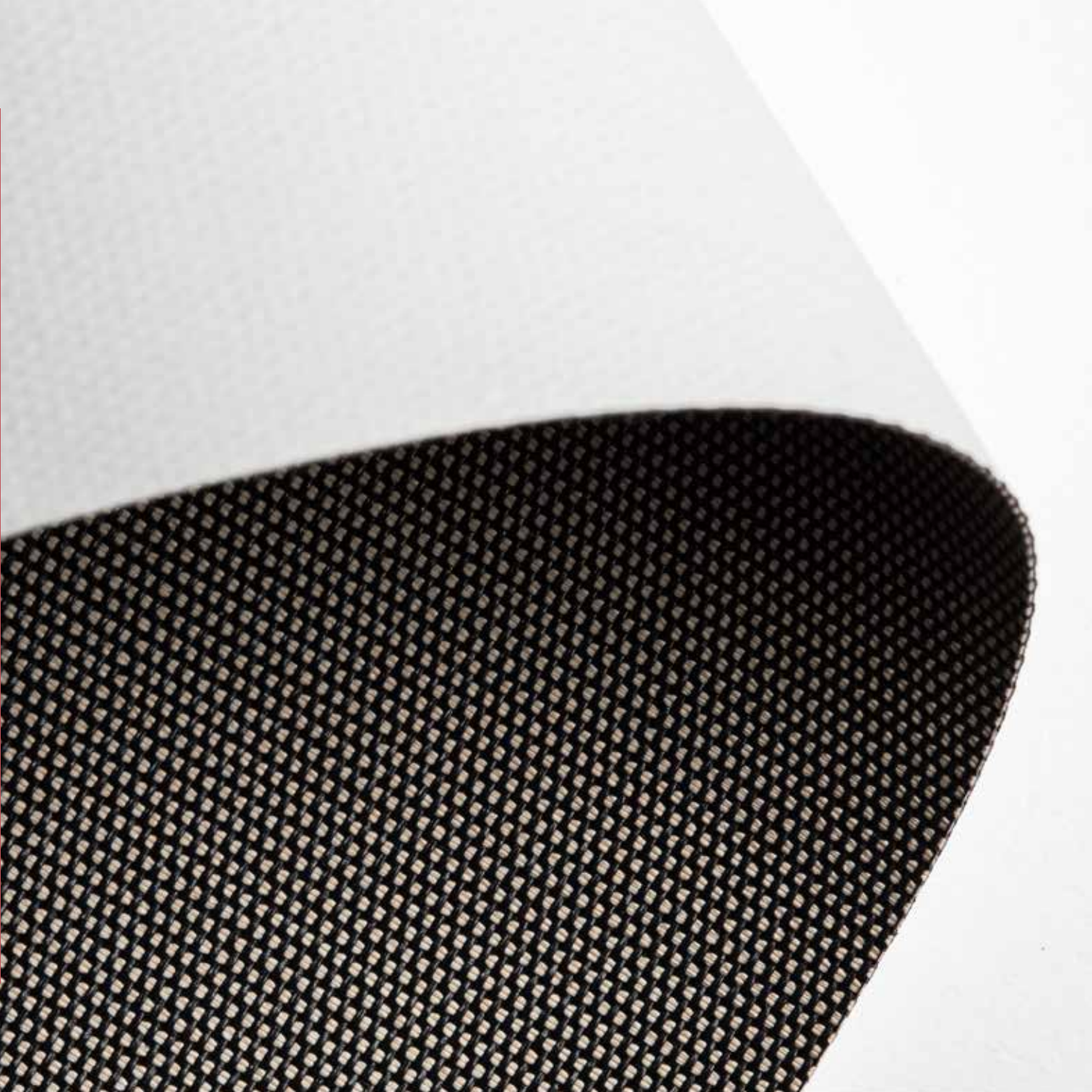
COLLECTION 2018-2021  
BLOCK SUNLIGHT  
BLOCKOUT  
OF = 0%

Ventex®

**Keep out sunlight  
completely. Strike  
a perfect balance  
between comfort,  
stylish and private.**

**Ventex®**







# Blockout Déco N203



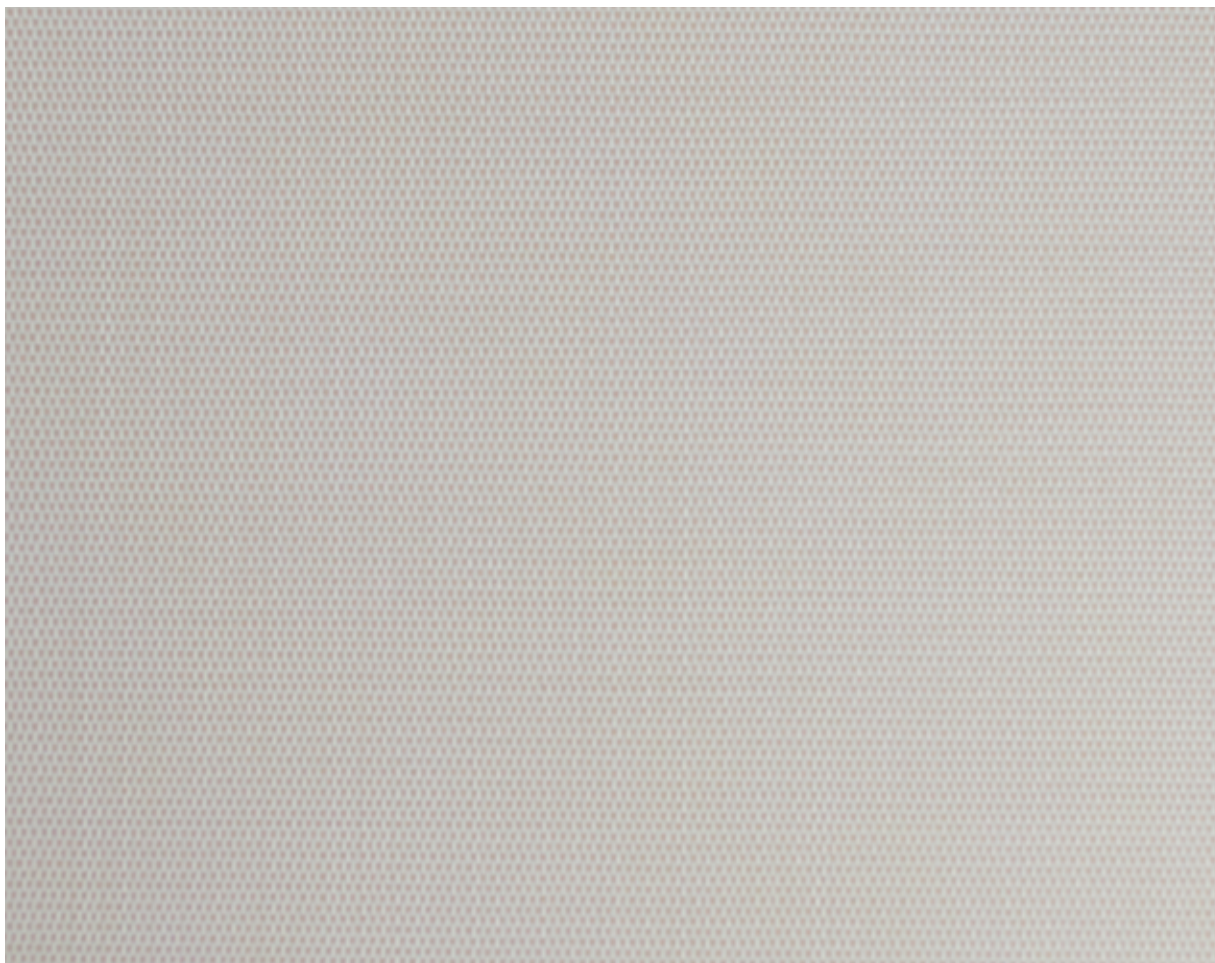
## Technical specifications

| TECHNICAL SPECIFICATION             |                                           | UNITY            |      | STANDARD                                      | RESULT  |
|-------------------------------------|-------------------------------------------|------------------|------|-----------------------------------------------|---------|
| composition                         |                                           |                  |      | Déco N203 flock laminated                     |         |
| openness factor                     |                                           | %                |      | NBN EN 410                                    | 0%      |
| weight                              |                                           | g/m <sup>2</sup> |      | NF EN 12127                                   | 700     |
| thickness                           |                                           | mm               |      | ISO 5084                                      | 0,45    |
| density                             |                                           | yarn/cm          | warp | ISO 7211/2                                    | 22      |
|                                     |                                           |                  | weft |                                               | 20      |
| colour fastness to artificial light |                                           |                  | back | ISO 105 B02                                   | >7      |
| tear strength                       | original                                  | daN              | warp | ISO 4674-1 method 2                           | 2,9     |
|                                     |                                           |                  | weft |                                               | 3,1     |
| elongation up to break              | original                                  | %                | warp | ISO 1421                                      | 7,2     |
|                                     |                                           |                  | weft |                                               | 3,5     |
| breaking strength                   | original                                  | daN/5 cm         | warp | ISO 1421                                      | 185     |
|                                     |                                           |                  | weft |                                               | 200     |
| elongation up to break              | after colour fastness to artificial light | %                | warp | ISO 1421                                      | 6,1     |
|                                     |                                           |                  | weft |                                               | 2,9     |
| breaking strength                   | after colour fastness to artificial light | daN/5 cm         | warp | ISO 1421                                      | 170     |
|                                     |                                           |                  | weft |                                               | 200     |
| tear strength                       | after climatic chamber -30°C              | daN              | warp | ISO 4674-1 method 2                           | 2,4     |
|                                     |                                           |                  | weft |                                               | 2,9     |
| elongation up to break              | after climatic chamber -30°C              | %                | warp | ISO 1421                                      | 6,3     |
|                                     |                                           |                  | weft |                                               | 2,8     |
| breaking strength                   | after climatic chamber -30°C              | daN/5 cm         | warp | ISO 1421                                      | 125     |
|                                     |                                           |                  | weft |                                               | 160     |
| tear strength                       | after climatic chamber +70°C              | daN              | warp | ISO 4674-1 method 2                           | 2,7     |
|                                     |                                           |                  | weft |                                               | 3,4     |
| elongation up to break              | after climatic chamber +70°C              | %                | warp | ISO 1421                                      | 5,1     |
|                                     |                                           |                  | weft |                                               | 1,4     |
| breaking strength                   | after climatic chamber +70°C              | daN/5 cm         | warp | ISO 1421                                      | 110     |
|                                     |                                           |                  | weft |                                               | 90      |
| fire classification                 | Europe                                    |                  |      | UNE-EN 13501-1:2007                           | C-s3,d0 |
|                                     | France                                    |                  |      | NF P92-503                                    | M1      |
|                                     | Italy                                     |                  |      | UNI 9177                                      | Class 1 |
|                                     | Germany                                   |                  |      | DIN 4102                                      | B1      |
|                                     | UK                                        |                  |      | BS 5867                                       | C       |
|                                     | USA                                       |                  |      | NFPA 701                                      | FR      |
|                                     | Spain                                     |                  |      | UNE EN 13773-2003                             | Clase 1 |
| roll length                         |                                           |                  |      | 30 m                                          |         |
| cleaning                            |                                           |                  |      | with soapy water                              |         |
| confection                          |                                           |                  |      | by heat, high frequency or ultrasonic welding |         |

These properties are given as indicative and don't have any contractual value



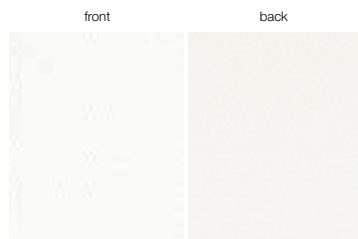
Blockout Déco N203 020302 white | sand-white



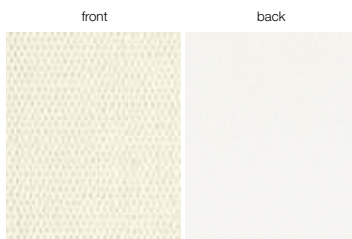
# Blockout Déco N203



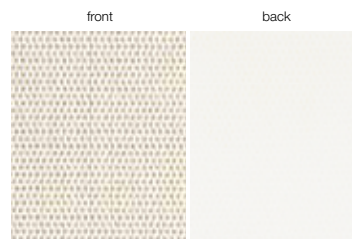
## Colours & references



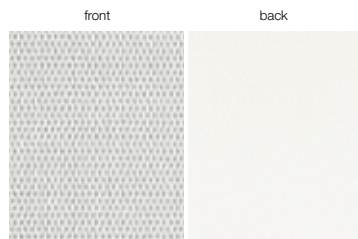
**Blockout Déco N203 020202**  
white | white-white



**Blockout Déco N203 020802**  
white | linen-white



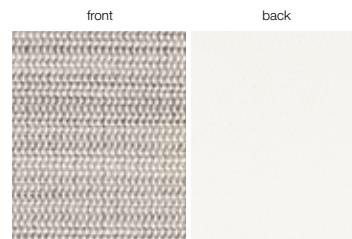
**Blockout Déco N203 020302**  
white | sand-white



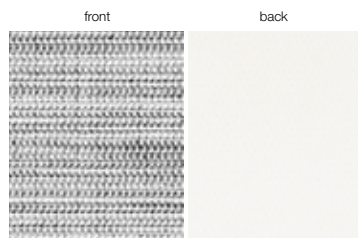
**Blockout Déco N203 020702**  
white | pearl grey-white



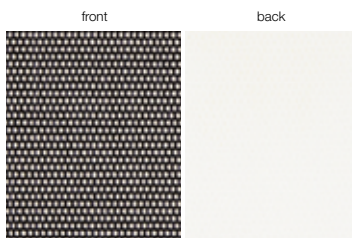
**Blockout Déco N203 020102**  
white | grey-white



**Blockout Déco N203 bicolor 024802**  
white-sand | bronze-white



**Blockout Déco N203 bicolor 024902**  
white-white | charcoal - white

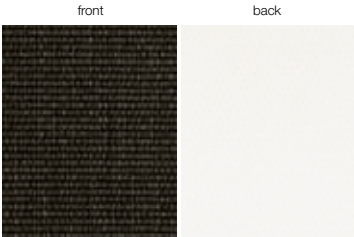


**Blockout Déco N203 100302**  
charcoal | sand-white

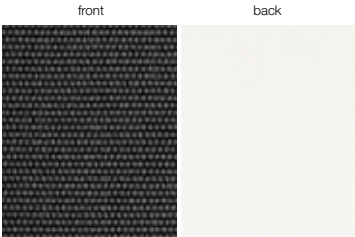


GLASSFIBRE

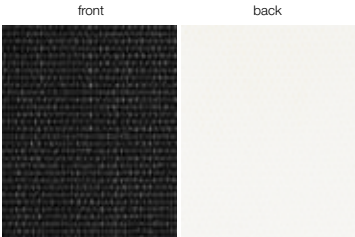
OF = 0%



Blockout Déco N203 101102  
charcoal | bronze-white



Blockout Déco N203 100102  
charcoal | grey-white



Blockout Déco N203 101002  
charcoal | charcoal-white

| Blockout Déco N203                  | 240 cm |
|-------------------------------------|--------|
| 020202 white   white-white          | •      |
| 020802 white   linen-white          | •      |
| 020302 white   sand-white           | •      |
| 020702 white   pearl grey-white     | •      |
| 020102 white   grey-white           | •      |
| 024802 white-sand   bronze-white    | •      |
| 024902 white-white   charcoal-white | •      |
| 100302 charcoal   sand-white        | •      |
| 101102 charcoal   bronze-white      | •      |
| 100102 charcoal   grey-white        | •      |
| 101002 charcoal   charcoal-white    | •      |

# Blockout Déco N203



## Solar energetic properties

| Blockout Déco N203<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1+A1:2007 |                              |                                                                                     |       |                         | SOLAR ENERGETIC PROPERTIES |                            |                                 |                                                |                                 |                                 |                                    |                          | VISUAL PROPERTIES |  |
|-------------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|-------|-------------------------|----------------------------|----------------------------|---------------------------------|------------------------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|-------------------|--|
|                                                                                                             |                              |                                                                                     |       |                         | FABRIC                     |                            |                                 | FABRIC + GLAZING                               |                                 |                                 |                                    |                          |                   |  |
|                                                                                                             |                              |                                                                                     |       |                         |                            |                            |                                 | INTERIOR                                       |                                 |                                 |                                    |                          |                   |  |
|                                                                                                             |                              |                                                                                     |       |                         |                            |                            |                                 | G-factor =<br>total solar energy transmittance |                                 |                                 |                                    |                          |                   |  |
| references                                                                                                  | colours                      |                                                                                     |       | As = Solar Absorbance % | Rs = Solar Reflectance %   | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8 | Glazing B - Gv = 0,76 - U = 2,9                | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |                   |  |
|                                                                                                             |                              | front                                                                               | back  |                         |                            |                            |                                 |                                                |                                 |                                 |                                    |                          |                   |  |
| 020202                                                                                                      | white   white-white          |    | front | 30,1                    | 69,9                       | 0,0                        | 0,30                            | 0,34                                           | 0,34                            | 0,25                            | 0,0                                | 0,0                      |                   |  |
|                                                                                                             |                              |                                                                                     | back  | 33,4                    | 66,6                       | 0,0                        | 0,32                            | 0,35                                           | 0,35                            | 0,25                            | 0,0                                | 0,0                      |                   |  |
| 020802                                                                                                      | white   linen-white          |    | front | 37,4                    | 62,6                       | 0,0                        | 0,35                            | 0,37                                           | 0,36                            | 0,25                            | 0,0                                | 0,0                      |                   |  |
|                                                                                                             |                              |                                                                                     | back  | 33,3                    | 66,7                       | 0,0                        | 0,32                            | 0,35                                           | 0,35                            | 0,25                            | 0,0                                | 0,0                      |                   |  |
| 020302                                                                                                      | white   sand-white           |   | front | 41,3                    | 58,7                       | 0,0                        | 0,37                            | 0,39                                           | 0,38                            | 0,26                            | 0,0                                | 0,0                      |                   |  |
|                                                                                                             |                              |                                                                                     | back  | 32,8                    | 67,2                       | 0,0                        | 0,32                            | 0,35                                           | 0,35                            | 0,25                            | 0,0                                | 0,0                      |                   |  |
| 020702                                                                                                      | white   pearl grey-white     |  | front | 59,0                    | 41,0                       | 0,0                        | 0,41                            | 0,43                                           | 0,40                            | 0,26                            | 0,0                                | 0,0                      |                   |  |
|                                                                                                             |                              |                                                                                     | back  | 33,0                    | 67,0                       | 0,0                        | 0,32                            | 0,35                                           | 0,35                            | 0,25                            | 0,0                                | 0,0                      |                   |  |
| 020102                                                                                                      | white   grey-white           |  | front | 48,6                    | 51,4                       | 0,0                        | 0,47                            | 0,48                                           | 0,43                            | 0,27                            | 0,0                                | 0,0                      |                   |  |
|                                                                                                             |                              |                                                                                     | back  | 33,7                    | 66,3                       | 0,0                        | 0,32                            | 0,35                                           | 0,35                            | 0,25                            | 0,0                                | 0,0                      |                   |  |
| 024802                                                                                                      | white-sand   bronze-white    |  | front | 41,3                    | 45,9                       | 0,0                        | 0,46                            | 0,47                                           | 0,42                            | 0,27                            | 0,0                                | 0,0                      |                   |  |
|                                                                                                             |                              |                                                                                     | back  | 41,3                    | 45,9                       | 0,0                        | 0,46                            | 0,47                                           | 0,42                            | 0,27                            | 0,0                                | 0,0                      |                   |  |
| 024902                                                                                                      | white-white   charcoal-white |  | front | 36,9                    | 48,7                       | 0,0                        | 0,45                            | 0,45                                           | 0,41                            | 0,27                            | 0,0                                | 0,0                      |                   |  |
|                                                                                                             |                              |                                                                                     | back  | 36,9                    | 48,7                       | 0,0                        | 0,45                            | 0,45                                           | 0,41                            | 0,27                            | 0,0                                | 0,0                      |                   |  |



| Blockout Déco N203<br><br>European Standard EN 14501<br>Calculation G-value according to EN 13363-1+A1:2007 |                           |                                                                                    |                                                                                    |                          | SOLAR ENERGETIC PROPERTIES |                            |                                 |                                                |                                 |                                 |                                    |                          | VISUAL PROPERTIES |  |
|-------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|----------------------------|----------------------------|---------------------------------|------------------------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|-------------------|--|
|                                                                                                             |                           |                                                                                    |                                                                                    |                          | FABRIC                     |                            |                                 | FABRIC + GLAZING                               |                                 |                                 |                                    |                          |                   |  |
|                                                                                                             |                           |                                                                                    |                                                                                    |                          |                            |                            |                                 | INTERIOR                                       |                                 |                                 |                                    |                          |                   |  |
|                                                                                                             |                           |                                                                                    |                                                                                    |                          |                            |                            |                                 | G-factor =<br>total solar energy transmittance |                                 |                                 |                                    |                          |                   |  |
| references                                                                                                  | colours                   |                                                                                    |                                                                                    | As = Solar Absorptance % | Rs = Solar Reflectance %   | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8 | Glazing B - Gv = 0,76 - U = 2,9                | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |                   |  |
|                                                                                                             |                           | front                                                                              | back                                                                               |                          |                            |                            |                                 |                                                |                                 |                                 |                                    |                          |                   |  |
| 100302                                                                                                      | charcoal   sand-white     |   |   | front                    | 84,4                       | 15,6                       | 0,0                             | 0,62                                           | 0,61                            | 0,52                            | 0,29                               | 0,0                      | 0,0               |  |
|                                                                                                             |                           |                                                                                    |                                                                                    | back                     | 34,2                       | 65,8                       | 0,0                             | 0,33                                           | 0,36                            | 0,35                            | 0,25                               | 0,0                      | 0,0               |  |
| 101102                                                                                                      | charcoal   bronze-white   |   |   | front                    | 93,3                       | 6,7                        | 0,0                             | 0,67                                           | 0,66                            | 0,55                            | 0,30                               | 0,0                      | 0,0               |  |
|                                                                                                             |                           |                                                                                    |                                                                                    | back                     | 33,6                       | 66,4                       | 0,0                             | 0,32                                           | 0,35                            | 0,35                            | 0,25                               | 0,0                      | 0,0               |  |
| 100102                                                                                                      | charcoal   grey-white     |   |   | front                    | 90,5                       | 9,5                        | 0,0                             | 0,66                                           | 0,64                            | 0,54                            | 0,30                               | 0,0                      | 0,0               |  |
|                                                                                                             |                           |                                                                                    |                                                                                    | back                     | 33,4                       | 66,6                       | 0,0                             | 0,32                                           | 0,35                            | 0,35                            | 0,25                               | 0,0                      | 0,0               |  |
| 101002                                                                                                      | charcoal   charcoal-white |  |  | front                    | 94,0                       | 6,0                        | 0,0                             | 0,68                                           | 0,66                            | 0,55                            | 0,30                               | 0,0                      | 0,0               |  |
|                                                                                                             |                           |                                                                                    |                                                                                    | back                     | 34,6                       | 65,4                       | 0,0                             | 0,33                                           | 0,36                            | 0,35                            | 0,25                               | 0,0                      | 0,0               |  |

|                                                                                                                      |           |
|----------------------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                                | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                                     | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon            | Gv = 0,59 |
| GLAZING D = reflective double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |





# Insectscreen

COLLECTION 2018-2021  
KEEP INSECTS OUT

Ventex®

**Make any room  
an insect-free zone.  
Meet Insectscreen.**

**Ventex®**



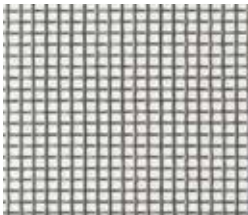




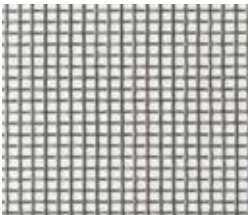
# Insectscreen



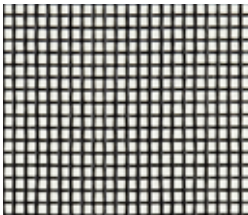
## Colours & references



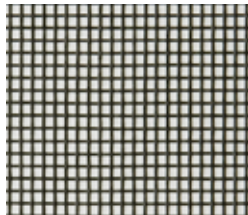
RI grey 18x16



QI grey 18x16



RI black 18x16



QI black 18x16

| TECHNICAL SPECIFICATION | UNITY            | RESULT                                        |
|-------------------------|------------------|-----------------------------------------------|
| composition             |                  | fabric or plastified glassfibre 36% - PVC 64% |
| weight                  | g/m <sup>2</sup> | 18x16 ca. 120 g ± 10%                         |
| thickness               | mm               | ca. 0,31 mm ± 0,05                            |
| density yarn            | yarn/inch        | warp + weft 18x16                             |
| roll length             |                  | <b>30 m - 90 m</b>                            |
| cleaning                |                  | with soapy water                              |
| confection              |                  | by heat, high frequency or ultrasonic welding |

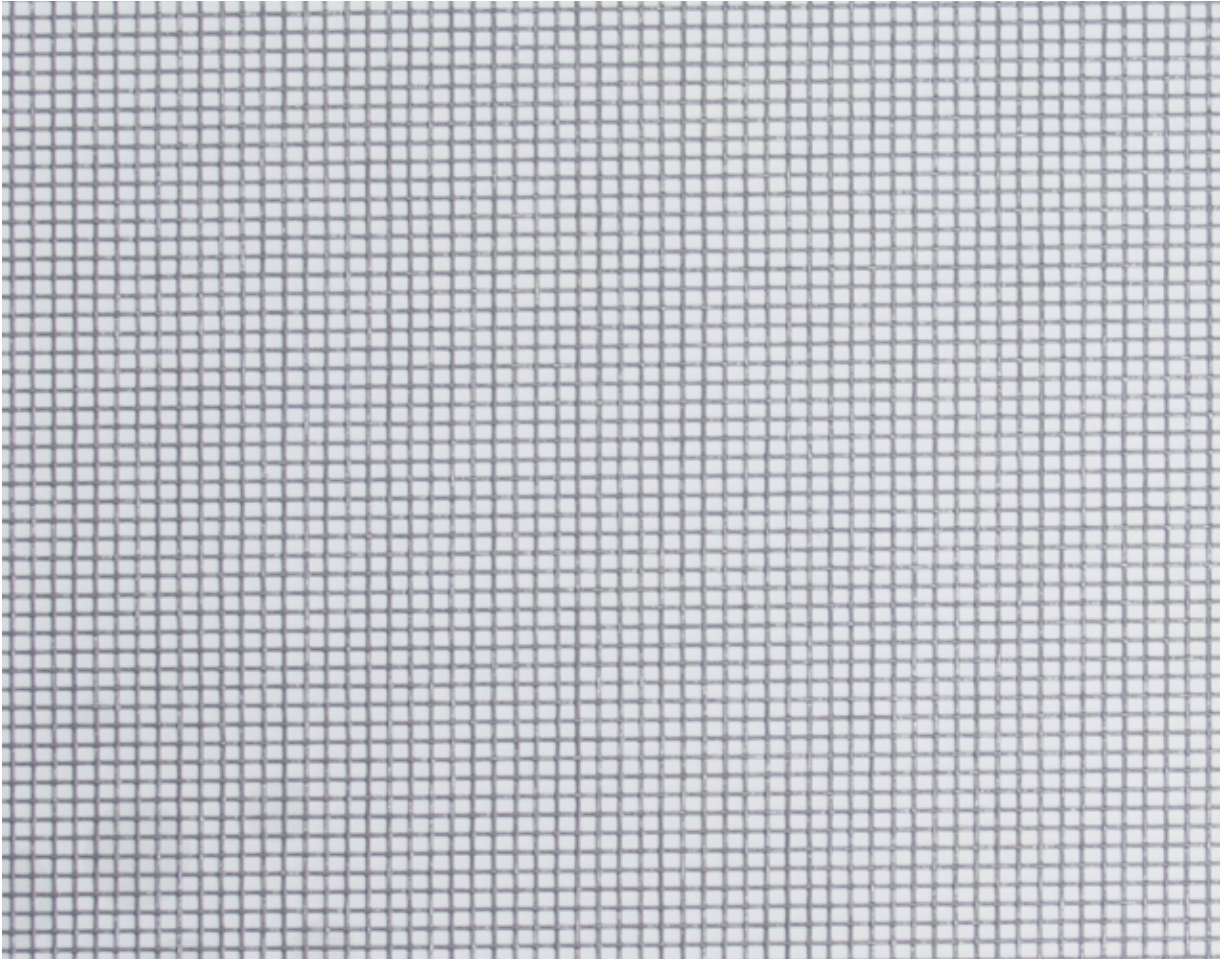
These properties are given as indicative and don't have any contractual value

| Insectscreen      |        |         |        | 60 cm | 70 cm | 80 cm | 90 cm | 100 cm | 120 cm | 140 cm | 150 cm | 160 cm | 170 cm | 180 cm | 200 cm | 220 cm | 240 cm | 260 cm | 280 cm |
|-------------------|--------|---------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| quality           | colour | density | length |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |
| DIY<br>(variabel) | grey   | 18x16   | 30 lm  | •     | •     | •     | •     | •      | •      | •      | •      | •      |        | •      | •      | •      | •      | •      | •      |
|                   | black  |         | 90 lm  | •     | •     | •     | •     | •      | •      | •      |        |        |        |        |        |        |        |        |        |
|                   |        |         | 30 lm  |       |       | •     |       | •      | •      | •      |        | •      |        |        |        |        |        |        |        |
| Stiff (RI)        | grey   | 18x16   | 90 lm  |       |       |       |       | •      | •      | •      |        | •      | •      | •      | •      | •      | •      | •      | •      |
|                   | black  |         |        |       |       |       |       |        |        |        |        | •      |        | •      |        |        |        | •      |        |
| Soft (QI)         | grey   | 18x16   | 90 lm  | •     |       | •     | •     | •      | •      | •      |        | •      |        |        |        | •      | •      |        |        |
|                   | black  |         |        |       |       | •     |       | •      | •      |        |        | •      |        |        |        |        |        |        |        |



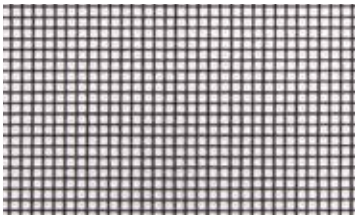


Sample





## Colours & references



**Bellavista black 20x20**

| TECHNICAL SPECIFICATION | UNITY            | RESULT                               |
|-------------------------|------------------|--------------------------------------|
| composition             |                  | Glassfibre 38% - PVC 62%             |
| weight                  | g/m <sup>2</sup> | ca. 86,2 g +/-5%                     |
| thickness               | mm               | ca. 0,26mm                           |
| density yarn            | yarn/inch        | warp + weft 20x20 - 7,8 yarns/cm     |
| roll length             | lm               | <b>30 lm - 90 lm</b>                 |
| roll width              | cm               | 70 - 80 - 90 - 100 - 130 - 160 - 260 |
| colours                 |                  | black                                |

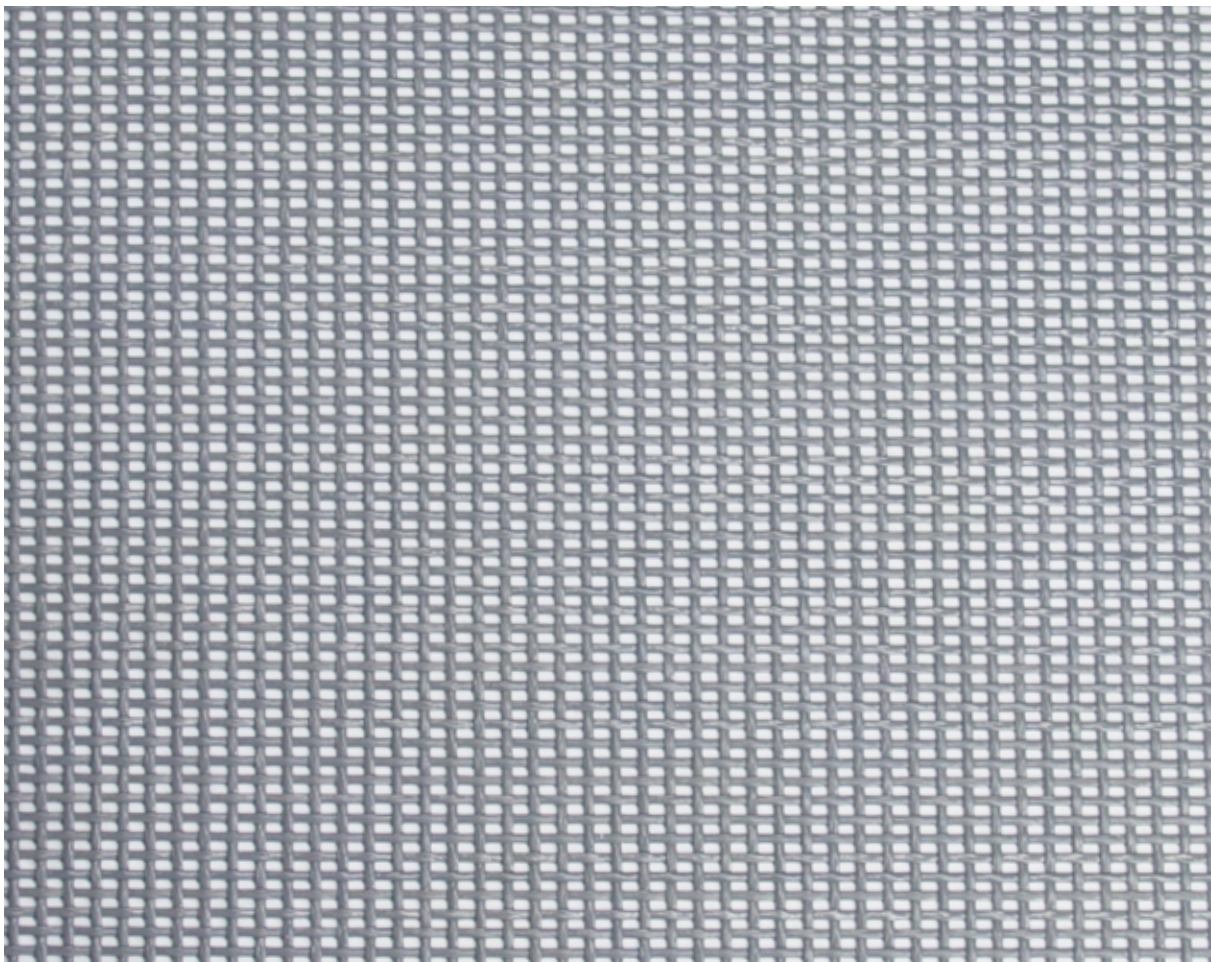
These properties are given as indicative and don't have any contractual value

| Bellavista |        |         |        | 70 cm | 80 cm | 90 cm | 100 cm | 120 cm | 130 cm | 140 cm | 150 cm | 160 cm | 170 cm | 180 cm | 200 cm | 220 cm | 240 cm | 260 cm | 280 cm |
|------------|--------|---------|--------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|            | colour | density | length |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Stiff      | black  | 20x20   | 30 lm  | •     | •     | •     | •      |        | •      |        |        | •      |        |        |        |        |        | •      |        |
|            |        |         | 90 lm  | •     | •     | •     | •      |        | •      |        |        | •      |        |        |        |        |        | •      |        |





Sample





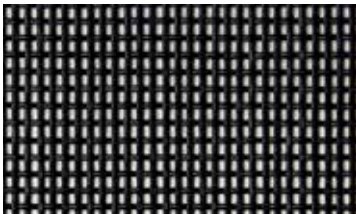
# Xtra Screen



## Colours & references



Xtra Screen anthracite



Xtra Screen black

| TECHNICAL SPECIFICATION | UNITY            | RESULT                                        |
|-------------------------|------------------|-----------------------------------------------|
| composition             |                  | polyester PVC coated                          |
| weight                  | g/m <sup>2</sup> | ca. 415 g ± 10%                               |
| thickness               |                  | ca. 0,83mm                                    |
| roll length             |                  | <b>30 m - 90 m</b>                            |
| cleaning                |                  | with soapy water                              |
| confection              |                  | by heat, high frequency or ultrasonic welding |

These properties are given as indicative and don't have any contractual value

| Xtra Screen |        | 120 cm | 160 cm | 180 cm |
|-------------|--------|--------|--------|--------|
| colour      | length |        |        |        |
| anthracite  | 50 lm  | •      |        | •      |
| black       | 50 lm  | •      | •      |        |





# Xtra Screen



Sample









**Ventex®**

**Screens made  
from ecological  
fabrics and 100%  
recyclable materials.  
Meet Galopp  
& Feiner**

**Ventex®**

# Galopp & Feiner

OF = 3% - colours with \* are also available in 1% or 8%

## Colours & references



002002 white\*



093093 mist



095095 royal blue



086086 slate



087087 plum slate



089089 basalt



090090 galena



010010 black\*

| Galopp 3%         | 240 cm | 250 cm | 320 cm |
|-------------------|--------|--------|--------|
| 002002 white      |        | •      | •      |
| 093093 mist       |        | •      | •      |
| 095095 royal blue |        | •      | •      |
| 086086 slate      |        | •      | •      |
| 087087 plum slate |        | •      | •      |
| 089089 basalt     |        | •      | •      |
| 090090 galena     |        | •      | •      |
| 010010 black      |        | •      | •      |
| Galopp 1%         | 240 cm | 250 cm | 320 cm |
| 002002 white      |        | •      |        |
| 010010 black      |        | •      |        |
| Galopp 8%         | 240 cm | 250 cm | 320 cm |
| 002002 white      |        | •      |        |
| 010010 black      |        | •      |        |

| Feiner 3%         | 240 cm | 250 cm | 320 cm |
|-------------------|--------|--------|--------|
| 002002 white      | •      |        |        |
| 093093 mist       | •      |        |        |
| 095095 royal blue | •      |        |        |
| 086086 slate      | •      |        |        |
| 087087 plum slate | •      |        |        |
| 089089 basalt     | •      |        |        |
| 090090 galena     | •      |        |        |
| 010010 black      | •      |        |        |
| Feiner 1%         | 240 cm | 250 cm | 320 cm |
| 002002 white      | •      |        |        |
| 010010 black      | •      |        |        |
| Feiner 8%         | 240 cm | 250 cm | 320 cm |
| 002002 white      | •      |        |        |
| 010010 black      | •      |        |        |



# Galopp & Feiner

## Solar energetic properties

| Galopp 3%<br><br>Europaran Standard EN 14501<br>Calculation G-value according to EN 13363-1 version 7.0 |            | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 | VISUAL PROPERTIES                  |                          |
|---------------------------------------------------------------------------------------------------------|------------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|
|                                                                                                         |            | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |
|                                                                                                         |            |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |
|                                                                                                         |            |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |
| references                                                                                              | colours    | As = Solar Absorbance %    | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |
| 002002                                                                                                  | white      | 5,4                        | 60,4                     | 34,2                       | 0,41                                           | 0,41                            | 0,38                            | 0,26                            | 33,1                               | 35,5                     |
| 093093                                                                                                  | mist       | 27,8                       | 46,2                     | 26                         | 0,57                                           | 0,55                            | 0,47                            | 0,28                            | 16,9                               | 7,7                      |
| 095095                                                                                                  | royal blue | 51,8                       | 29,8                     | 18,4                       | 0,56                                           | 0,55                            | 0,47                            | 0,28                            | 4,4                                | 4,3                      |
| 086086                                                                                                  | slate      | 41,7                       | 37,2                     | 21,1                       | 0,52                                           | 0,52                            | 0,45                            | 0,28                            | 8,5                                | 7,5                      |
| 087087                                                                                                  | plum slate | 50,5                       | 31,9                     | 17,6                       | 0,55                                           | 0,54                            | 0,47                            | 0,28                            | 4,4                                | 4,5                      |
| 089089                                                                                                  | basalt     | 49,9                       | 32,2                     | 17,9                       | 0,55                                           | 0,54                            | 0,47                            | 0,28                            | 4,6                                | 4,5                      |
| 090090                                                                                                  | galena     | 51,8                       | 30,8                     | 17,4                       | 0,56                                           | 0,55                            | 0,47                            | 0,28                            | 4,2                                | 4,1                      |
| 010010                                                                                                  | black      | 54                         | 29,3                     | 16,7                       | 0,56                                           | 0,55                            | 0,48                            | 0,28                            | 3,1                                | 3,5                      |
| Galopp 1%                                                                                               |            |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |
| 002002                                                                                                  | white      | 5,9                        | 62,6                     | 31,5                       | 0,39                                           | 0,39                            | 0,37                            | 0,25                            | 30,2                               | 28,2                     |
| 010010                                                                                                  | black      | 55,7                       | 28,3                     | 16                         | 0,57                                           | 0,56                            | 0,48                            | 0,28                            | 1,7                                | 1,9                      |
| Galopp 3%                                                                                               |            |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |
| 002002                                                                                                  | white      | 5,1                        | 57,6                     | 37,3                       | 0,43                                           | 0,42                            | 0,39                            | 0,26                            | 36                                 | 36,2                     |
| 010010                                                                                                  | black      | 52,3                       | 27,1                     | 20,6                       | 0,58                                           | 0,57                            | 0,48                            | 0,29                            | 6,6                                | 7,1                      |

## Technical specifications

| TECHNICAL SPECIFICATIONS | UNITY                                         | STANDARD            | RESULT                     |      |       |                            |       |       |
|--------------------------|-----------------------------------------------|---------------------|----------------------------|------|-------|----------------------------|-------|-------|
|                          |                                               |                     | ULTERIO                    |      |       | ZILARIO                    |       |       |
| composition              |                                               |                     | 100 % recycled PET bottles |      |       | 100 % recycled PET bottles |       |       |
| openness factor          | %                                             | NBN EN 410          | 1%                         | 3%   | 8%    | 1%                         | 3%    | 8%    |
| weight                   | g/m²                                          | NF EN 12127         | 243                        | 223  | 186   | 262                        | 226   | 200   |
| thickness                | mm                                            | ISO 2286-3          | 0,52                       | 0,53 | 0,566 | 0,522                      | 0,464 | 0,531 |
| fire classification      | Europe                                        | UNE-EN 13501-1:2007 | C-s3,d0                    |      |       | C-s3,d0                    |       |       |
|                          | France                                        | NF P92-503          | M1                         |      |       | M1                         |       |       |
|                          | Italy                                         | UNI 9177            | Class 1                    |      |       |                            |       |       |
|                          | Germany                                       | DIN 4102            | B1                         |      |       | B1                         |       |       |
|                          | UK                                            | BS 5867             | C                          |      |       |                            |       |       |
|                          | USA                                           | NFPA 701            | FR                         |      |       |                            |       |       |
| roll length              | 30 m                                          |                     |                            |      |       |                            |       |       |
| cleaning                 | with soapy water                              |                     |                            |      |       |                            |       |       |
| confection               | by heat, high frequency or ultrasonic welding |                     |                            |      |       |                            |       |       |

# Galopp & Feiner

## Solar energetic properties

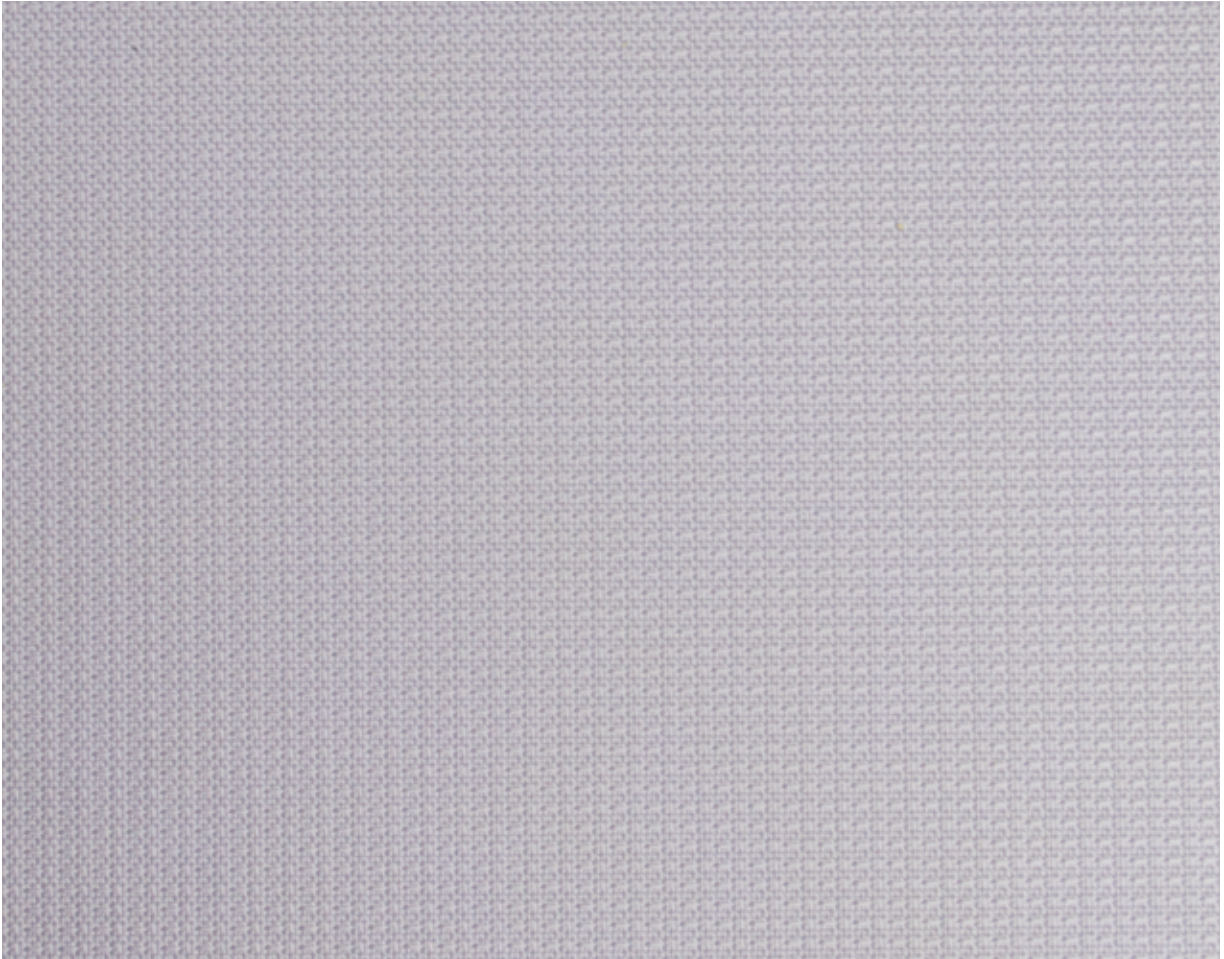
| Feiner 3%  |            |       | SOLAR ENERGETIC PROPERTIES |                          |                            |                                                |                                 |                                 |                                 |                                    | VISUAL PROPERTIES        |  |
|------------|------------|-------|----------------------------|--------------------------|----------------------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|--------------------------|--|
|            |            |       | FABRIC                     |                          |                            | FABRIC + GLAZING                               |                                 |                                 |                                 |                                    |                          |  |
|            |            |       |                            |                          |                            | INTERIOR                                       |                                 |                                 |                                 |                                    |                          |  |
|            |            |       |                            |                          |                            | G-factor =<br>total solar energy transmittance |                                 |                                 |                                 |                                    |                          |  |
| references | colours    |       | As = Solar Absorbance %    | Rs = Solar Reflectance % | Ts = Solar Transmittance % | Glazing A - Gv = 0,85 - U = 5,8                | Glazing B - Gv = 0,76 - U = 2,9 | Glazing C - Gv = 0,59 - U = 1,2 | Glazing D - Gv = 0,32 - U = 1,1 | Tv = Visible Light Transmittance % | Tuv = UV Transmittance % |  |
| 002002     | white      | front | 31,2                       | 59,1                     | 9,7                        | 0,38                                           | 0,40                            | 0,38                            | 0,26                            | 9,6                                | 10,8                     |  |
|            |            | back  | 31,1                       | 59,2                     | 9,7                        | 0,38                                           | 0,40                            | 0,38                            | 0,26                            | 9,6                                | 10,8                     |  |
| 093093     | mist       | front | 48,0                       | 44,6                     | 7,4                        | 0,46                                           | 0,47                            | 0,42                            | 0,27                            | 6,0                                | 3,2                      |  |
|            |            | back  | 38,7                       | 53,9                     | 7,4                        | 0,41                                           | 0,42                            | 0,39                            | 0,26                            | 6,0                                | 3,2                      |  |
| 095095     | royal blue | front | 65,3                       | 28,2                     | 6,5                        | 0,56                                           | 0,55                            | 0,48                            | 0,28                            | 4,3                                | 3,7                      |  |
|            |            | back  | 41,8                       | 51,7                     | 6,5                        | 0,42                                           | 0,43                            | 0,40                            | 0,26                            | 4,3                                | 3,7                      |  |
| 086086     | slate      | front | 56,1                       | 36,9                     | 7,0                        | 0,51                                           | 0,51                            | 0,45                            | 0,28                            | 4,1                                | 4,0                      |  |
|            |            | back  | 36,1                       | 56,9                     | 7,0                        | 0,39                                           | 0,41                            | 0,38                            | 0,26                            | 4,1                                | 4,0                      |  |
| 087087     | plum slate | front | 63,0                       | 31,1                     | 5,9                        | 0,54                                           | 0,54                            | 0,47                            | 0,28                            | 2,9                                | 2,9                      |  |
|            |            | back  | 36,4                       | 57,7                     | 5,9                        | 0,38                                           | 0,40                            | 0,38                            | 0,26                            | 2,9                                | 2,9                      |  |
| 089089     | basalt     | front | 63,0                       | 31,1                     | 5,9                        | 0,54                                           | 0,54                            | 0,47                            | 0,28                            | 2,9                                | 2,9                      |  |
|            |            | back  | 36,4                       | 57,7                     | 5,9                        | 0,38                                           | 0,40                            | 0,38                            | 0,26                            | 2,9                                | 2,9                      |  |
| 090090     | galena     | front | 63                         | 31,1                     | 5,9                        | 0,54                                           | 0,54                            | 0,47                            | 0,28                            | 2,9                                | 2,9                      |  |
|            |            | back  | 36,4                       | 57,7                     | 5,9                        | 0,38                                           | 0,40                            | 0,38                            | 0,26                            | 2,9                                | 2,9                      |  |
| 010010     | black      | front | 65,8                       | 28,7                     | 5,5                        | 0,55                                           | 0,55                            | 0,47                            | 0,28                            | 2,4                                | 2,5                      |  |
|            |            | back  | 34,8                       | 59,7                     | 5,5                        | 0,37                                           | 0,39                            | 0,37                            | 0,25                            | 2,4                                | 2,5                      |  |
| Feiner 1%  |            |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 002002     | white      | front | 38,7                       | 54,1                     | 7,2                        | 0,41                                           | 0,42                            | 0,39                            | 0,26                            | 7,0                                | 7,8                      |  |
|            |            | back  | 33,9                       | 58,9                     | 7,2                        | 0,38                                           | 0,40                            | 0,38                            | 0,26                            | 7,0                                | 7,8                      |  |
| 010010     | black      | front | 69,5                       | 26,2                     | 4,3                        | 0,56                                           | 0,56                            | 0,48                            | 0,28                            | 1,9                                | 2,0                      |  |
|            |            | back  | 42,3                       | 53,4                     | 4,3                        | 0,41                                           | 0,42                            | 0,39                            | 0,26                            | 1,9                                | 2,0                      |  |
| Feiner 8%  |            |       |                            |                          |                            |                                                |                                 |                                 |                                 |                                    |                          |  |
| 002002     | white      | front | 37,1                       | 50,2                     | 12,7                       | 0,44                                           | 0,44                            | 0,41                            | 0,26                            | 12,4                               | 13                       |  |
|            |            | back  | 33,9                       | 53,4                     | 12,7                       | 0,42                                           | 0,43                            | 0,40                            | 0,26                            | 12,4                               | 13                       |  |
| 010010     | black      | front | 64                         | 25,5                     | 10,5                       | 0,58                                           | 0,57                            | 0,49                            | 0,29                            | 8,4                                | 8,5                      |  |
|            |            | back  | 38,6                       | 50,9                     | 10,5                       | 0,43                                           | 0,44                            | 0,40                            | 0,26                            | 8,4                                | 8,5                      |  |

|                                                                                                                      |           |
|----------------------------------------------------------------------------------------------------------------------|-----------|
| GLAZING A = clear single glazing 4 mm                                                                                | Gv = 0,85 |
| GLAZING B = clear double glazing (4/12/4), space filled with air                                                     | Gv = 0,76 |
| GLAZING C = double glazing (4/16/4), with a low emissivity coating in position 3, space filled with argon            | Gv = 0,59 |
| GLAZING D = reflective double glazing (4/16/4), with a low emissivity coating in position 2, space filled with argon | Gv = 0,32 |



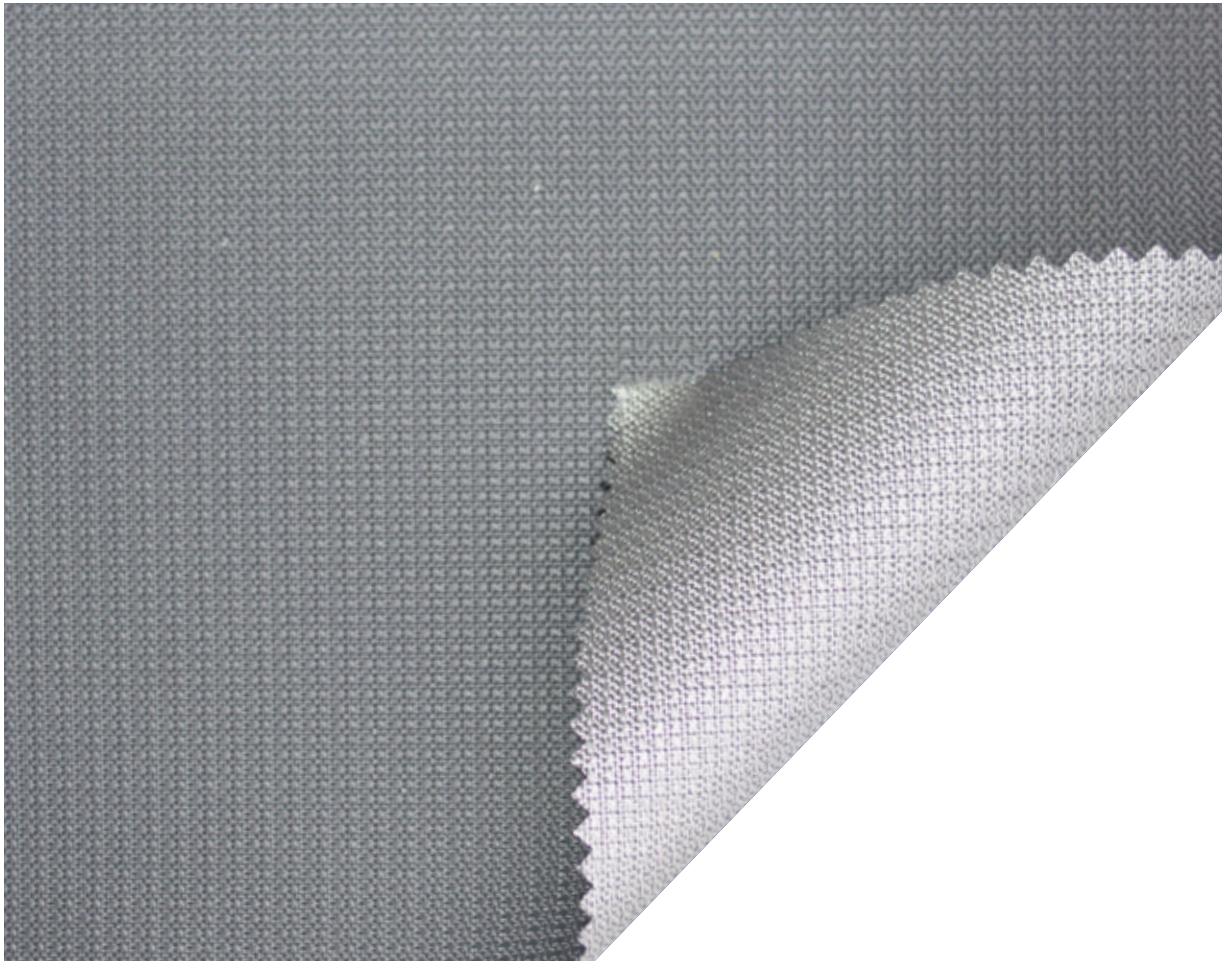
# Galopp & Feiner

## Galopp



# Galopp & Feiner

Feiner

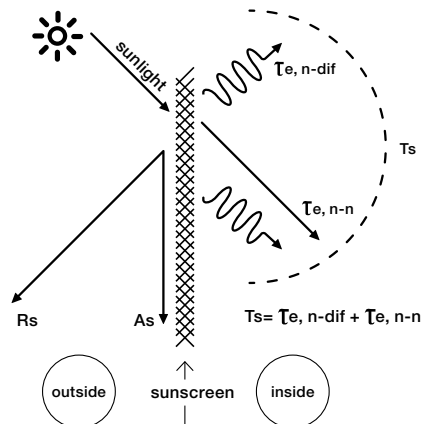




# Working of a sunscreen

## Sunscreen = protection against sunrays

Sunscreen means protection against the sunrays, so the function is the protection against light and heat, which is expressed in several properties.



|                 |                             |
|-----------------|-----------------------------|
| <b>Rs</b>       | Solar reflectance           |
| <b>As</b>       | Solar absorptance           |
| <b>Ts</b>       | Solar transmittance         |
| <b>Te,n-dif</b> | Diffuse solar transmittance |
| <b>Te,n-n</b>   | Normal solar transmittance  |

## Classes indicate effect of a sunscreen

Based on certain properties, the screen can be split up in classes, from 0 to 4. Those classes are used, starting from the norm EN 14501, to indicate the effect of a certain sunscreen.

| influence on thermal and visual comfort |                    |
|-----------------------------------------|--------------------|
| <b>Class 0</b>                          | very little effect |
| <b>Class 1</b>                          | little effect      |
| <b>Class 2</b>                          | moderate effect    |
| <b>Class 3</b>                          | good effect        |
| <b>Class 4</b>                          | very good effect   |

## Visual properties

### Openness factor

The openness of a screen is indicated by the openness factor = **OF**. The openness coefficient is the relative area of the openings in the fabric seen under a given incidence. The openness factor is seen under a normal incidence.



The sunrays are subdivided in: **Visible light**, **UV-light** and **IR-light**.

**Visible light** (55% of the sun-energy) is that part for which our eyes are most sensitive. How larger the light intensity, how more detrimental for our eyes.

The factor Visible Light Transmittance = **Tv**, is the ratio of visible light that will be transmitted. How lower this factor can be kept, how better for the eyes.

**UV-light** (3% of the sun-energy) is the part of radiation which is detrimental for our health. This factor is indicated by the UV Transmittance = **Tuv**. This is the quantity UV-light transmitted by the sunscreen.

**IR-light** is invisible. This is however 42% of the sun-energy. These rays care for the reheating of solid substances and gases.

### Influence of colours

The choice of the colour has direct influence on the criteria which justify the use of sunscreen protection:

- Protection against visible light, expressed by the factor **Tv**.
- Protection against sun-energy, expressed by the **G** value.
- Protection against secondary heat, expressed by the factor **Qi**.
- Protection against UV-light, expressed by the factor **Tuv**.



## Visual properties: classes

### Glare control

The capacity of the solar protection device to control the luminance level of openings and to reduce the luminance contrasts between different zones within the field.

| $T_{v,n-n}$                  | $T_{v,n-dif}$        |                                |                                |                         |
|------------------------------|----------------------|--------------------------------|--------------------------------|-------------------------|
|                              | $T_{v,n-dif} < 0,02$ | $0,02 \leq T_{v,n-dif} < 0,04$ | $0,04 \leq T_{v,n-dif} < 0,08$ | $T_{v,n-dif} \geq 0,08$ |
| $T_{v,n-n} > 0,10$           | 0                    | 0                              | 0                              | 0                       |
| $0,05 < T_{v,n-n} \leq 0,10$ | 1                    | 1                              | 0                              | 0                       |
| $T_{v,n-n} \leq 0,05$        | 3                    | 2                              | 1                              | 1                       |
| $T_{v,n-n} = 0,00$           | 4                    | 3                              | 2                              | 2                       |

### Privacy at night

Night privacy is the capacity of an internal or external blind or a shutter in the fully extended position or fully extended and closed position to protect persons, at night in normal light conditions from external view. External views means the ability of an external observer located 5m from the fully extended and closed product, to distinguish a person or object standing 1m behind the protection device in the room.

| $T_{v,n-n}$                  | $T_{v,n-dif}$               |                                |                      |
|------------------------------|-----------------------------|--------------------------------|----------------------|
|                              | $0 < T_{v,n-dif} \leq 0,04$ | $0,04 < T_{v,n-dif} \leq 0,15$ | $T_{v,n-dif} > 0,15$ |
| $T_{v,n-n} > 0,10$           | 0                           | 0                              | 0                    |
| $0,05 < T_{v,n-n} \leq 0,10$ | 1                           | 1                              | 1                    |
| $T_{v,n-n} \leq 0,05$        | 2                           | 2                              | 2                    |
| $T_{v,n-n} = 0,00$           | 4                           | 3                              | 2                    |

### Visual contact with the outside

Visual contact with the outside is the capacity of the solar protection device to allow an exterior view when it is fully extended. This function is affected by different light conditions during the day.

| $T_{v,n-n}$                  | $T_{v,n-dif}$               |                                |                      |
|------------------------------|-----------------------------|--------------------------------|----------------------|
|                              | $0 < T_{v,n-dif} \leq 0,04$ | $0,04 < T_{v,n-dif} \leq 0,15$ | $T_{v,n-dif} > 0,15$ |
| $T_{v,n-n} > 0,10$           | 4                           | 3                              | 2                    |
| $0,05 < T_{v,n-n} \leq 0,10$ | 3                           | 2                              | 1                    |
| $T_{v,n-n} \leq 0,05$        | 2                           | 1                              | 0                    |
| $T_{v,n-n} = 0,00$           | 0                           | 0                              | 0                    |

### Daylight utilisation

Daylight utilisation is characterised by:

- the capacity of the solar protection device to reduce the time period during the artificial light is required.
- the capacity of the solar protection device to optimise the daylight which is available.

| CLASS         | 0                    | 1                              | 2                              | 3                              | 4                       |
|---------------|----------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------|
| $T_{v,dif-h}$ | $T_{v,dif-h} < 0,02$ | $0,02 \leq T_{v,dif-h} < 0,10$ | $0,10 \leq T_{v,dif-h} < 0,25$ | $0,25 \leq T_{v,dif-h} < 0,40$ | $T_{v,dif-h} \geq 0,40$ |

# Working of a sunscreen

## Thermal comfort

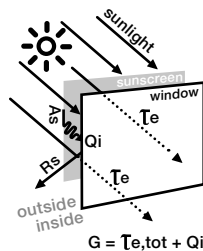
### Fabric

Energy radiated by the sun, will be split up in 3 factors:

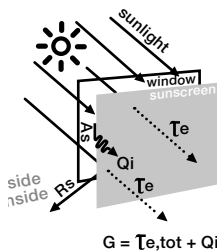
| factor 1:                                                                                                                                                                          | factor 2:                                                                                                                                                                                                               | factor 3:                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>As = Solar absorptance</b><br/>is the ratio of the absorbed flux to the incident flux.</p> |  <p><b>Rs = Solar reflectance</b><br/>is the fraction of the incident solar radiation that is directly reflected by the component.</p> |  <p><b>Ts = Solar transmittance</b><br/>is the sum of the (normal) direct solar transmittance and the diffuse solar transmittance. This is the fraction of the total transmitted energy to the total incident solar radiation.</p> |
| These 3 factors together are always 100%                                                                                                                                           |                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                      |

### The G-factor

#### exterior sunscreen



#### interior sunscreen



Sunscreens are always used in combination with a glazing. These together will prevent a large quantity of energy, sent by the sun to the earth, which is indicated by the: Total Solar Energy Transmittance, or **G-factor**.

The **G** value is the ratio between the total solar energy transmitted into a room through a window and the incident solar energy on the window. The **G<sub>tot</sub>** is the solar factor of the combination of glazing and solar protection device.

The **G<sub>v</sub>** is the solar factor of the glazing alone.

The shading coefficient is defined as the ratio of the solar factor of the combined glazing and solar protection device **G<sub>tot</sub>** to that of the glazing alone **G<sub>v</sub>**.

The total solar energy transmitted through a window consists of two parts:

- 1) Radiation: measured by the solar transmittance: **Te,tot**
- 2) Heat: measured by the secondary heat transfer: **Qi**

$$G = \tau_{e,tot} + Q_i$$

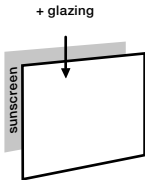
|           |                                             |
|-----------|---------------------------------------------|
| <b>Rs</b> | Solar reflectance                           |
| <b>As</b> | Solar absorptance                           |
| <b>Te</b> | Direct solar transmittance                  |
| <b>Qi</b> | Secondary heat transfer factor              |
| <b>G</b>  | G-factor = total solar energy transmittance |

The factor **Te,tot**, is the quantity of energy, which will pass the combination solar protection device and window.  
The factor **Qi** is the quantity of heat which is released by the absorption of energy in the sunscreen protection system = combination sunscreen + glazing.

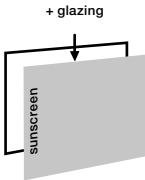
The **G-factor** is the most important factor to explain the efficiency of a combination sunscreen + glazing, as protection against the energy of the sun. The **G-factor** divided into his components explains the difference in efficiency between exterior and interior sunscreen.

$$G = Te,tot + Qi$$

exterior sunscreen



interior sunscreen



The direct solar transmittance **Te,tot** is the same for interior and exterior use of sunscreens.  
The secondary heat factor **Qi** for interior sunscreen is bigger then for exterior sunscreen. For interior use, the heat, produced by the absorption of energy, will be transmitted to the room inside. By exterior use, the heat will be transmitted to the outside, without any inconvenience at the inside.

Also the colour of the sunscreen has an influence on the **G-factor**. Dark colours will absorb a lot of sun energy and will transmit this to heat. If the screen is used for exterior, heat will have no influence inside the room, contrary to a screen used for interior. This is why a darker screen is ideal for exterior use and a lighter screen for interior use.



Thermal comfort: classes

Total Solar energy Transmittance = G-factor

| CLASS | 0           | 1                  | 2                  | 3                  | 4           |
|-------|-------------|--------------------|--------------------|--------------------|-------------|
| Gtot  | Gtot ≥ 0,50 | 0,35 ≤ Gtot < 0,50 | 0,15 ≤ Gtot < 0,35 | 0,10 ≤ Gtot < 0,15 | Gtot < 0,10 |

Secondary Heat transfer = Qi

| CLASS | 0         | 1                | 2                | 3                | 4         |
|-------|-----------|------------------|------------------|------------------|-----------|
| Qi    | Qi ≥ 0,30 | 0,20 ≤ Qi < 0,30 | 0,10 ≤ Qi < 0,20 | 0,03 ≤ Qi < 0,10 | Qi < 0,03 |

Normal Solar transmittance = protection against direct transmission

The ability of a solar protection device to protect persons and surroundings from direct irradiation is measured by the direct/direct solar transmittance of the device in combination with the glazing. Te,n-n is used as measure for this property.

