



EXCLUSIVE

SIDE-POST PARASOL

Exclusive
Stylish
Height adjustment
Rotation
Tilting
Optional wheeled bases



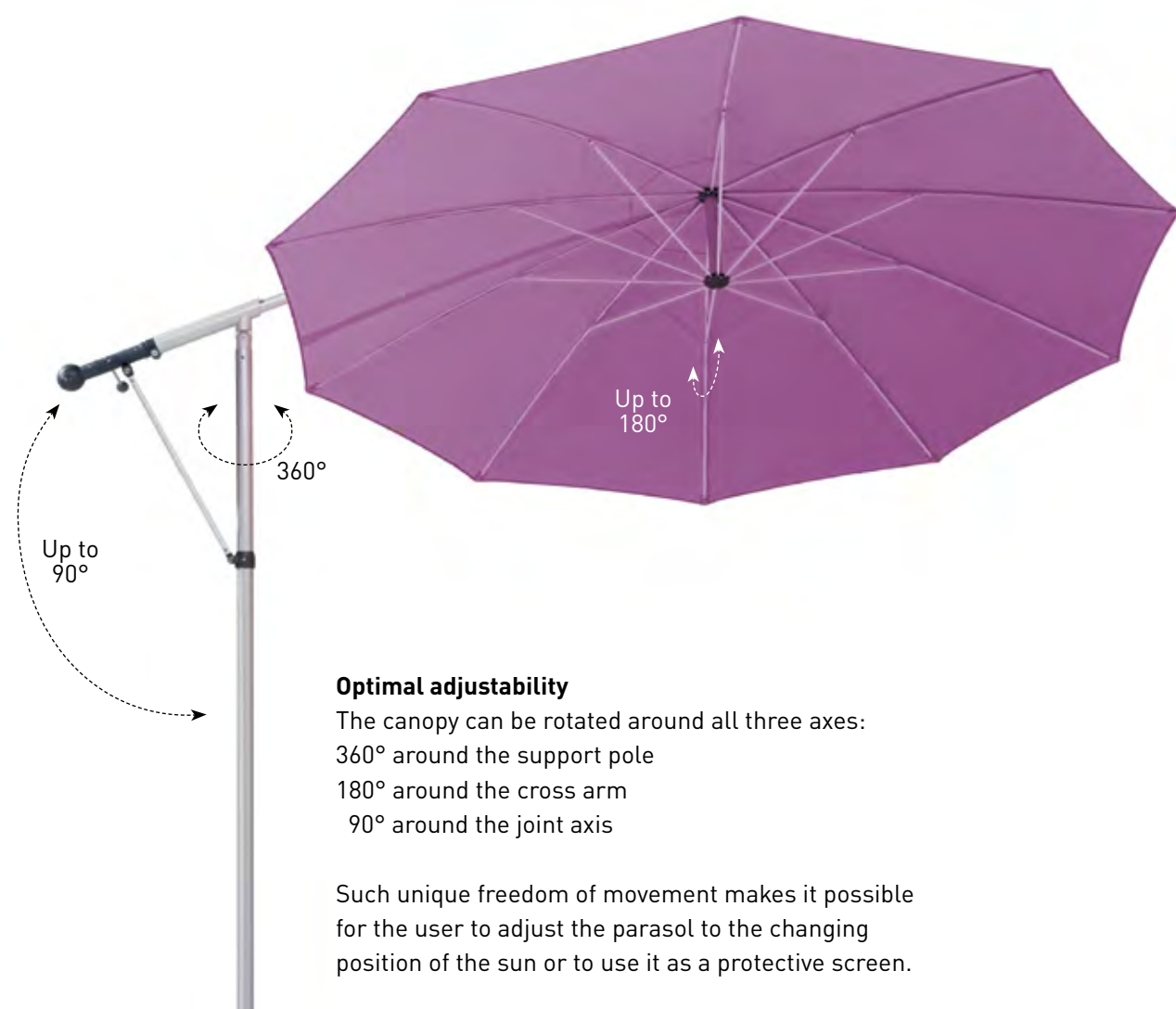
MONTE CARLO Ø 3.0m, with air vent, in 314033 ivory





Crank drive

With the help of a hand crank THE MONTE CARLO can be opened and closed, positioned and locked in next to no time.



Optimal adjustability

The canopy can be rotated around all three axes:
360° around the support pole
180° around the cross arm
90° around the joint axis

Such unique freedom of movement makes it possible for the user to adjust the parasol to the changing position of the sun or to use it as a protective screen.

When not in use

The protective cover provided can easily be slipped over the shade during bad weather periods.

MONTE CARLO

Stability while in use

The practical MONTE CARLO canopy lock allows the user to open and close the parasol when it is in an inclined position and prevents the canopy from swinging in the wind.

High-quality framework materials

The poles of our parasols are all made of high-quality alloyed, extruded aluminium profiles. Frame surfaces are anodized, highly impact-proof, and available in the colour EV1 natural silver-grey. The spokes are of spring steel and powder-coated, available in white aluminium RAL 9006.



Stability while in use

Valance options



straight valance



without valance

Canopy covering

For fabrics and colours cf. page 11 onwards.

Installation options

mobile see page 07, stationary see page 09.



MONTE CARLO – with height adjustment

More functions – more benefits! Our MONTE CARLO model not only has TILT & ROTATE, it also offers the possibility of effortless height adjustment. Thanks to a pneumatic spring incorporated in the support pole, the physical strength needed to raise or lower the parasol is effectively reduced to a minimum.

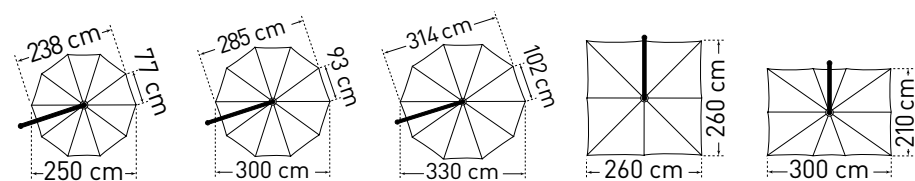


Ergonomic handling

Ergonomic handling

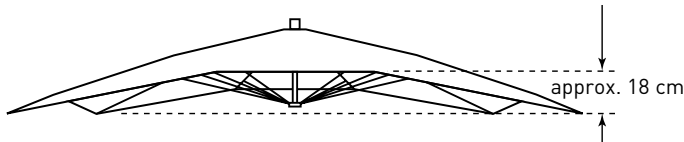
The operational mechanism of the parasol is conveniently positioned and can easily be adjusted to suit the height of your choice.





MONTE CARLO			Ø 2,5 m	Ø 3,0 m	Ø 3,3 m ²⁾	2,6 x 2,6 m	2,1 x 3,0 m ³⁾
			10	10	10	8	10
	Area	m²	4,6	6,6	8	6,75	6,25
A ¹⁾	min. / max.	cm	188 / 223	176 / 211	175 / 210	178 / 213	181 / 216
B	min. / max.	cm	241 / 276	238 / 273	240 / 275	238 / 273	238 / 273
C	min. / max.	cm	335 / 370	352 / 387	371 / 405	340 / 375	321 / 356
D ¹⁾	min. / max.	cm	110 / 145	85 / 120	79 / 114	102 / 137	125 / 160
E		cm	160	160	166	160	160
F		cm	285	300	328	282	264
G		cm	55	55	55	55	55
H		cm	90	90	90	90	90
I	min. / max.	cm	165 / 200	165 / 200	165 / 200	165 / 200	165 / 200
K	min. / max.	cm	241 / 276	241 / 276	250 / 285	241 / 276	241 / 276
L	min. / max.	cm	11 / 46	11 / 46	11 / 46	11 / 46	11 / 46
M ¹⁾	min. / max.	cm	102 / 137	75 / 110	72 / 107	42 / 77	42 / 77
P ¹⁾	min. / max.	cm	90 / 125	65 / 100	51 / 86	25 / 58	22 / 57
	Weight without packaging	kg	18	19	20	18	18
Q	Support pole diameter	mm	outer-Ø 55, pole thickness 3				
	Packaging		rectangular cardboard box: l= 270 cm, w= 32 cm, h= 18 cm, approx. 3 kg				
	Installation base length/width/min. depth	cm	50/50/60				
	Minimum-ballast layers of concrete slabs XZ40 required	Number of	1 x = approx. 72 kg				

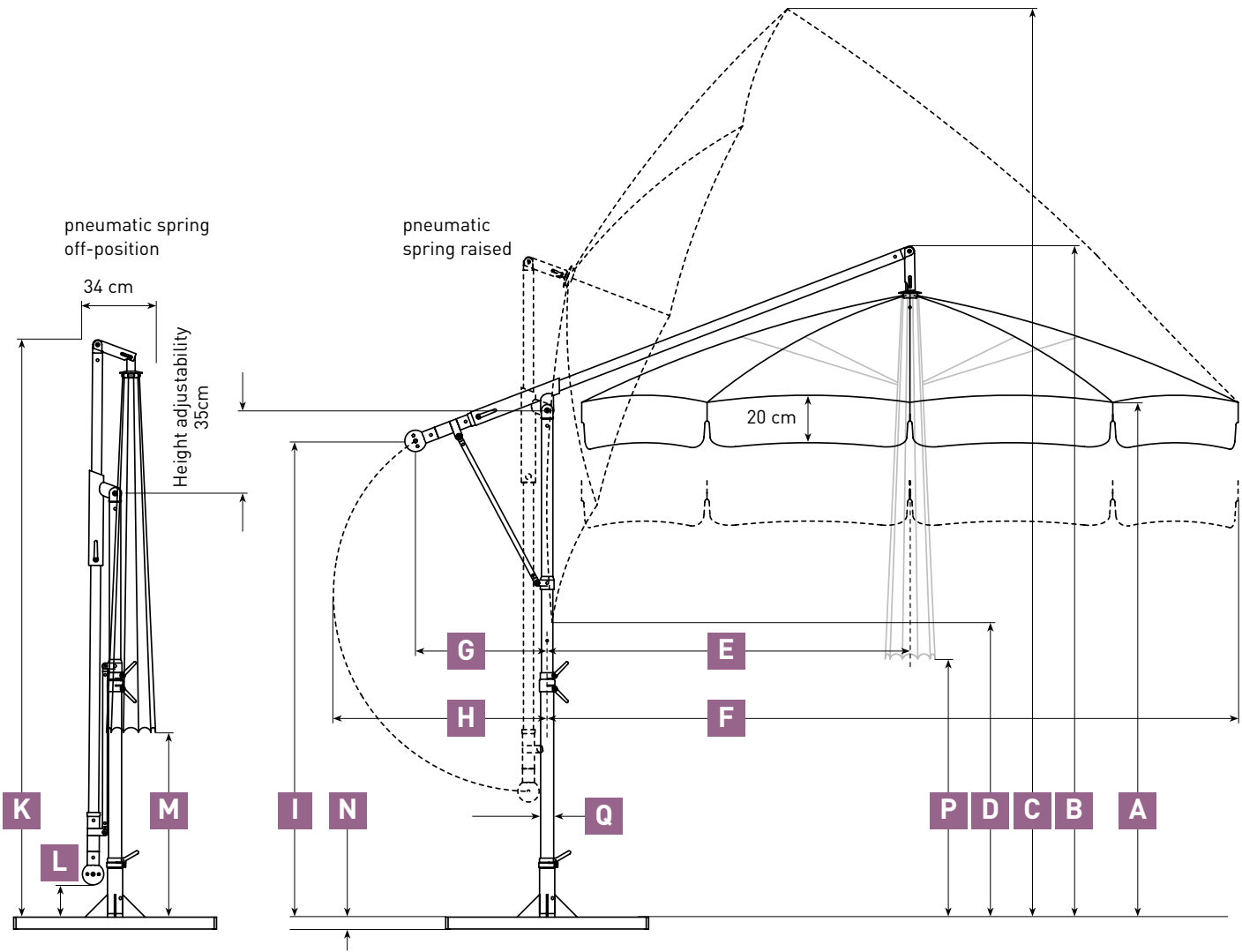
¹⁾ Sizes without valance: with valance less 20 cm.
²⁾ Additional pedestal weight may be required for windy locations (upwind, sloping sites and so on). Do not use granite base. Pedestals require 2 sets of concrete slabs.
³⁾ The canopy is vaulted, so that the corner spokes are approx. 9 - 18 cm lower than the centre spokes. (cf. sketch)



Dimensional tolerance approx. 5%.

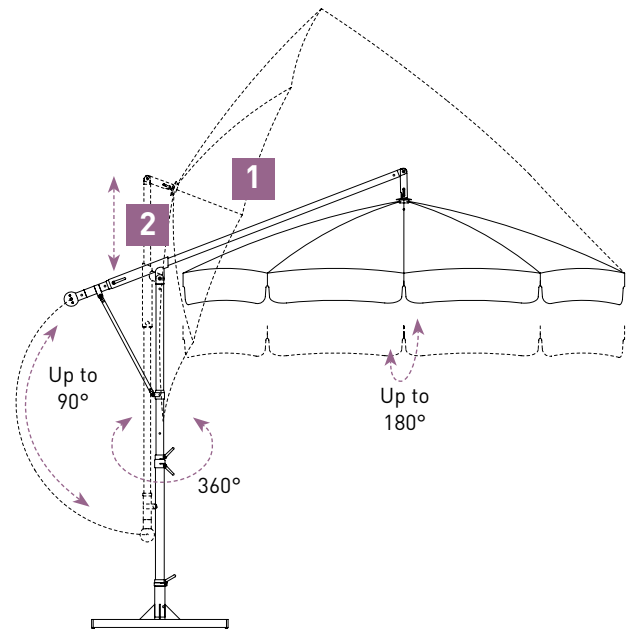
N The heights specified are for parasols with MayTex-Acryl covering fabric that are mounted in an anchor tube (DMZ118, DMZ146, DMZ150). The increase in height for parasols with other installation bases can be seen in the list below:

- Cross pedestal: DMZ110 + 6 cm
- Full frame pedestal: DMZ411 + 9 cm
- Full frame pedestal: DMZ412 + 12 cm
- Full frame pedestal: DMZ414 + 16 cm
- Full frame pedestal: DMZ420 + 19 cm
- Granite base: DMZ141 + 10 cm
- Wheeled pedestal: DMZ282 + 14/15 cm
- Anchor plate: DMZ261 + 4 cm



Adjustable to suit your individual needs

- 1 No matter where the sun is, the parasol canopy can be tilted at any angle for shade and protection, then locked.
- 2 Effortless height adjustment thanks to standard incorporation of a pneumatic spring in the support pole.



Accessories and Bases

Additional protective sleeve

Made from tarpaulin material, in colour grey, with integrated aluminium bar and zipper for simple operation.

Please indicate size of umbrella and shape of valance.

for MEZZO art. no. **MA130**

for DACAPO art. no. **DA130**



Cross pedestal

mounted with screws, frame size 83 x 83 cm, total height 28 cm, weight approx. 4.5 kg, galvanized.

For standard concrete slabs 40 x 40 x 5 cm.

art. no. **DMZ110**



Full frame pedestal

frame size 84 x 91 cm, total height 33 cm, height of frame x = 5 cm, weight approx. 23 kg, galvanized.

For 1 set of standard concrete slabs 40 x 40 x 5 cm.

art. no. **DMZ411**



Full frame pedestal adjustable for slanting surfaces

with 4 rubber diagonal support levelling screws, frame size 84 x 91 cm, total height min. 34 cm, max. 40 cm, weight approx. 24 kg, galvanized.

For 1 set of standard concrete slabs 40 x 40 x 5 cm.

art. no. **DMZ412**



Full frame pedestal on wheels

with rubber heavy-duty rollers and fixing brakes, frame size 84 x 91 cm, total height 40 cm, diameter of rollers 5 cm, weight approx. 24 kg, galvanized.

For 1 set of standard concrete slabs 40 x 40 x 5 cm.

Attention: wind sensitive!

art. no. **DMZ414**



Heavy-duty wheels Ø 15 cm

wheel diameter 15 cm, for uneven surfaces. Rubber, with fixing brakes, loading capacity 110 kg/wheel. Suitable for DMZ414.

For orders with full frame pedestal

art. no. **351498**

For retrofitting

art. no. **351499**

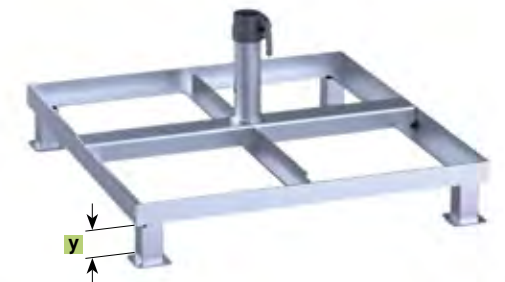
Full frame pedestal on feet

for forklift or lift truck transport, frame size

84 x 91 cm, foot height y = 10 cm, weight approx. 25 kg, galvanized.

For 1 set of standard concrete slabs 40 x 40 x 5 cm.

art. no. **DMZ420**



Frame pedestal cover plate

stainless steel 1.4310, fits on DMZ411, DMZ412, DMZ414 and DMZ420. For retrofitting.

art. no. **200905**



DMZ411 mit 200905

Concrete slabs

1 set = 4 slabs, each 40 x 40 x 5 cm, weight per slab: approx. 18 kg, Total weight approx. 72 kg.



Granite base

Ø approx. 70 cm, 2 pieces, round, grau, polished, 4 recessed grips, stainless steel surface, weight approx. 100 kg, height x = approx. 10 cm

art. no. **DMZ141**



Wheeled pedestal

incl. weights, rubber rollers, stainless steel locking rod. Colour anthracite, 75 x 75 cm, weight approx. 100 kg.

anthracite

art. no. **DMZ282**



graphite

Wheeled pedestal

incl. weights, rubber rollers, stainless steel locking rod. Colour graphite, 75 x 75 cm, weight approx. 100 kg.

graphite

art. no. **DMZ283**



Free-standing base plate

plate size 80 x 80 cm, steel plate thickness x = 12 mm, galvanized, weight approx. 60 kg. Only use in combination with art. 351185.

art. no. **DMZ271**



Add-on weight plate

fits for DMZ271 and DMZ139, for retrofitting. Plate size 78 x 78 cm, steel plate thickness x = 12 mm, galvanized, weight approx. 56 kg.

art. no. **351185**



351185 with DMZ271

Anti-slip mat

1 piece, 80 x 80cm, suitable for the steel plates of the installation options of DMZ271 and DMZ139. Increases the coefficient of friction between steel plate and floor covering (wood, concrete slabs, asphalt) and therefore decreases slipping caused by wind. Partly made from recycling material, colour black, x=3 mm.

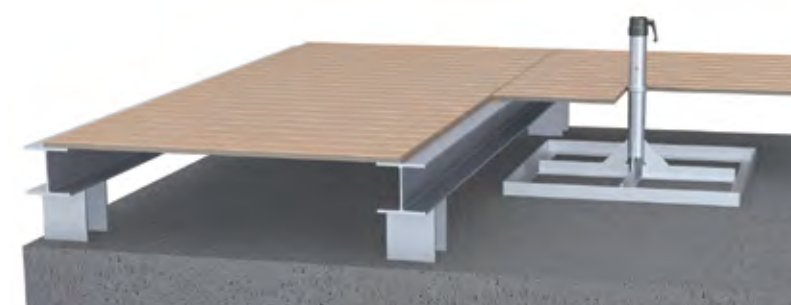
art. no. **352791**



Full frame pedestal

customized height to fit patio surface, frame size 83 x 83 cm, screw-off upper part, galvanized, weight approx. 23 kg, incl. top plate for winter protection. For 1 set of standard concrete slabs 40 x 40 x 5 cm.

art. no. **DMZ208**

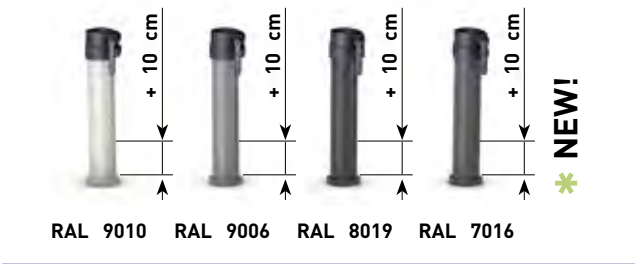


DMZ118 options:
galvanized and powder-coated

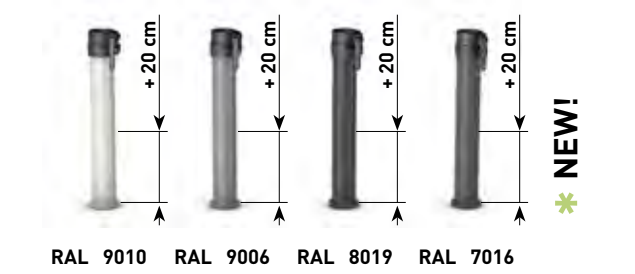
DMZ118 upper anchor tube, standard



extra length + 10 cm



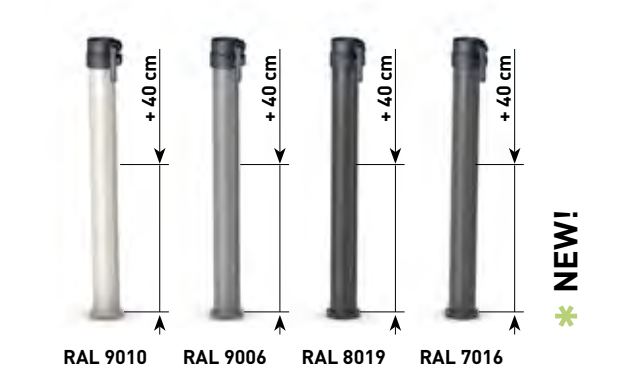
extra length + 20 cm



extra length + 30 cm

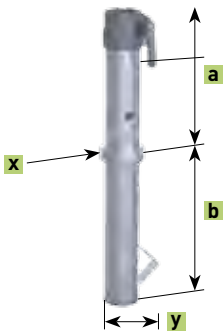


extra length + 40 cm



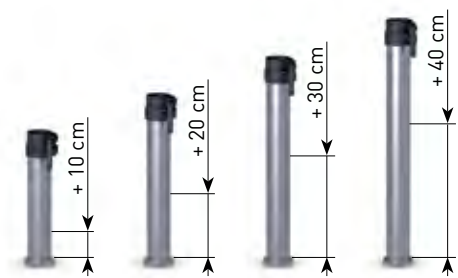
Anchor tube to be embedded in concrete
2 pieces, screw-off upper part, galvanized, weight approx. 4.7 kg,
incl. top plate for winter protection.
a = 26 cm, b = 29 cm, x = Ø 8 cm, y = 15 cm

art. no. **DMZ118**



DMZ118 options:
galvanized

DMZ118 upper anchor tube, extra length



DMZ118 lower anchor tube, extra length



Anchor tube to be embedded in concrete

identical with DMZ118, tube and upper part stainless steel V4A (1.4571), surface glass bead blasted.

art. no. **352779**

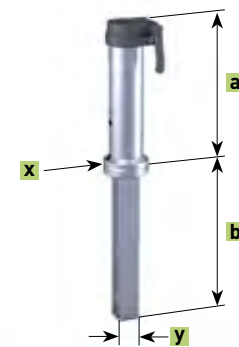


Anchor tube to be embedded in concrete

for an existing foundation with a bore hole of min. Ø 71 mm, 2 pieces, screw-off upper part. The bore hole is filled with concrete in order to fix the lower part of the anchor tube. The existing foundation must be adequate in size for the designated parasol. Galvanized, weight approx. 3 kg, lower tube square, incl. top plate for winter protection.

a = 25 cm, b = 28.5 cm, x = Ø 8 cm, y = □ 5 cm

art. no. **DMZ146**



Dowel-anchored plate

galvanized, weight approx. 5 kg, a = 27.5 cm, x = Ø 21.5 cm, t = 1.2 cm, z = Ø 1.8 cm

art. no. **DMZ261**



Wall bracket

galvanized, weight approx. 5.5 kg, wall plate 30 x 16 cm, x = 20 cm, t = 0.8 cm. Bottom of support pole rests on bottom end of anchor tube.

art. no. **DMZ125**



Wall pressure plate for DMZ125

fits for DMZ125 and DMZ170, galvanized; 30 x 16 cm, to be clamped onto the existing bars (only possible if these are very strong), bore holes for M16 stud bolts (not included in the delivery)

art. no. **200084**

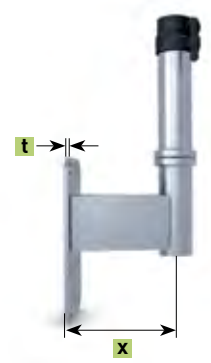


together with
200084

Wall bracket

galvanized, weight approx. 6.5 kg, wall plate 30 x 16 cm, x = 20 cm, t = 0.8 cm.

art. no. **DMZ170**



Corner wall bracket

galvanized, weight approx. 5.5 kg, x = 5.5 cm, t = 0.8 cm.

art. no. **DMZ172**



Dowel-anchored plate

customized height to fit patio surface, anchor plate 30 x 30 cm, screw-off upper part, galvanized, weight approx. 10 kg, incl. top plate for winter protection.

art. no. **DMZ129**



MayTex-Acryl with Texgard impregnation

- material: 100% polyacrylic, spun-dyed, weight 300g/m² ±5%
- water column (fabric water tightness) 370 mm, European standard EN 20 811
- colour fastness: grade ≥7 (against bleaching), tested acc. to standard EN ISO 105-B02 (1= min., 8= max.)
- colour fastness to artificial weathering: grade ≥4-5 (against bleaching), tested acc. to standard EN ISO 105-B04 (1= min., 5= max.)
- protection against UV rays: UPF 40-80, tested acc. to UV standard 801 (see page 185 for individual values)

- weather-proof, high and low temperature resistant
- Texgard impregnation gives effective protection against oil, grease, mildew and algae, industrial pollution, exhaust fumes and other negative environmental factors
- tested acc. to Öko-Tex standard 100
- imprinted ads: on parasol canopy and valance in durable, brilliant screen-printing quality
- cleaning: easy to clean with CleanoMay 13, even when mounted

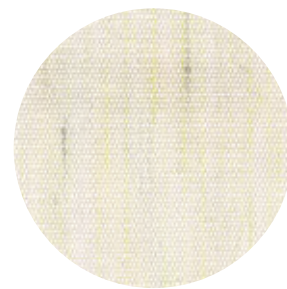
The shades shown here are not in accordance with the original ones.
If requested, we will be pleased to send you a collection of original cloth samples.



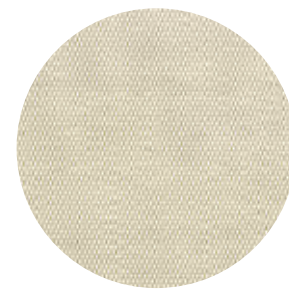
SA 314 010 white
similar to RAL 9003
bordering 00 white



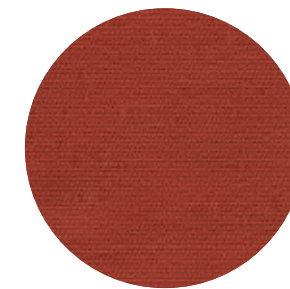
SA 314 018 white, grey knopped
similar to RAL 9016
bordering 00 white



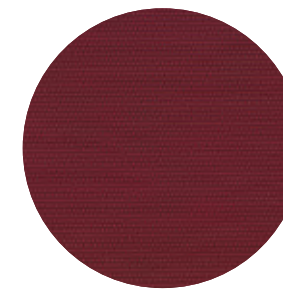
SA 314 580 white,
yellow/white nap
similar to RAL 9002
bordering 18 silver



SA 314 325 ecru
similar to RAL 1013
bordering 52 nature



SA 314 022 rust
similar to RAL 2001
bordering 83 rust

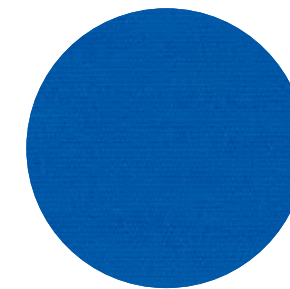


SA 314 763 bordeaux
similar to RAL 3004
bordering 86 bordeaux

*** NEW!**



SA 314 143 mallow
similar to RAL 4001
bordering 91P mallow

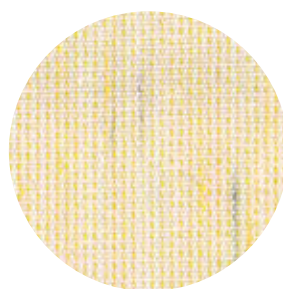


SA 314 011 royal blue
similar to RAL 5010
bordering 62 royal blue

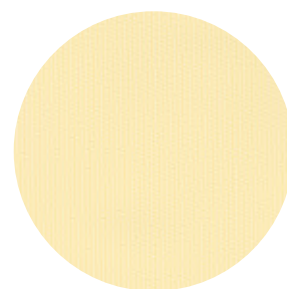
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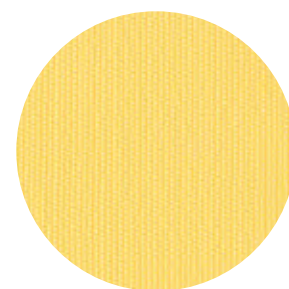
SA 314 851 vanilla
similar to RAL 1015
bordering 20 ivory



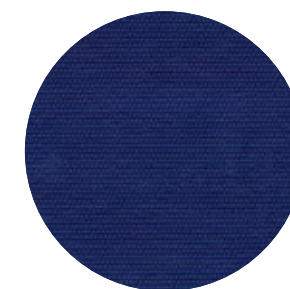
SA 314 583 white/yellow,
grey knopped
similar to RAL 1023/1013
bordering 20 ivory



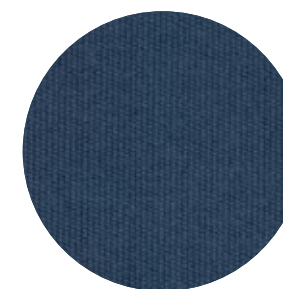
SA 314 033 ivory
similar to RAL 1013
bordering 20 ivory



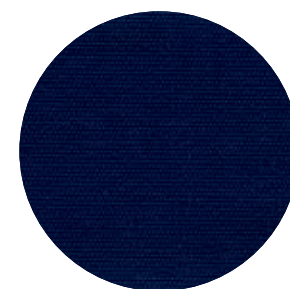
DA 7560 light yellow
similar to RAL 1023
bordering 10 pyrite



SA 314 006 sapphire
similar to RAL 5002
bordering 66 sapphire



SA 314 546 patina blue
similar to RAL 5007
bordering 187 blue patina

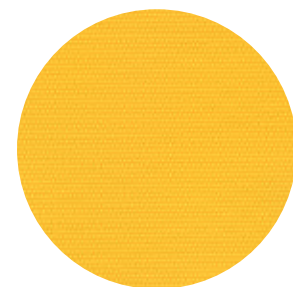


SA 314 414 navy blue
similar to RAL 5013
bordering 91 navy blue

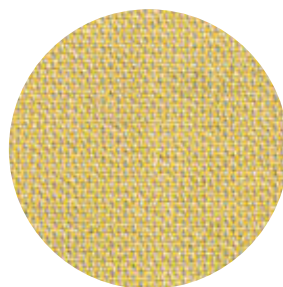
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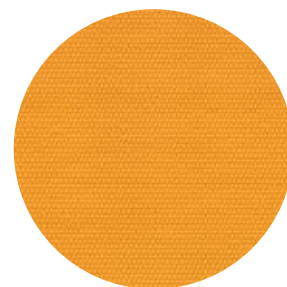
DA 7244 lime green
similar to RAL 6018
bordering 42 lime green



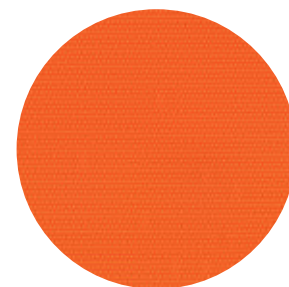
SA 314 003 yellow
similar to RAL 1023
bordering 32 yellow



SA 314 045 pyrite
similar to RAL 1002
bordering 10 pyrite

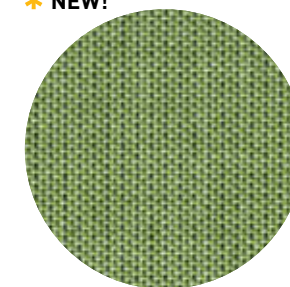


SA 314 014 mandarine
similar to RAL 1033
bordering 79 mandarin

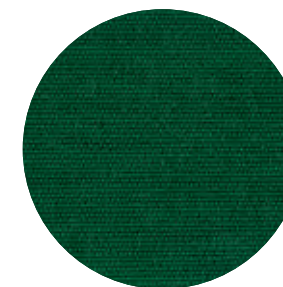


SA 314 002 orange
similar to RAL 2004
bordering 81 orange

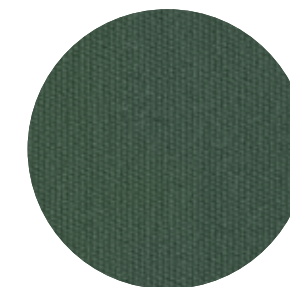
*** NEW!**



SA 314 396 green/apple green,
structured
similar to RAL 6021
bordering 42 lime green



SA 314 362 dark green
similar to RAL 6005
bordering 95 dark green

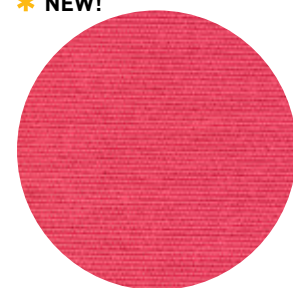


SA 314 624 patina green
similar to RAL 6000
bordering 162 green patina



SA 314 038 beige
similar to RAL 1019
bordering 11 beige

*** NEW!**

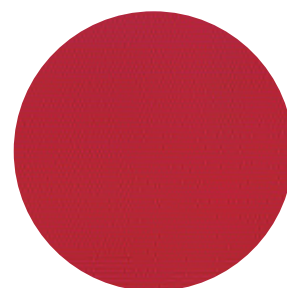


SA 314 397 magenta
similar to RAL 4010
bordering 410 magenta

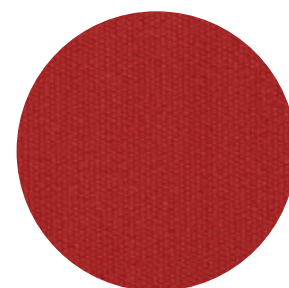
*** NEW!**



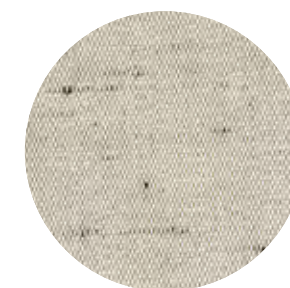
SA 314 007 pure red
similar to RAL 3028
bordering 82 red



SA 314 001 cherry
similar to RAL 3020
bordering 85 cherry



SA 314 347 ruby
similar to RAL 3003
bordering 85 cherry



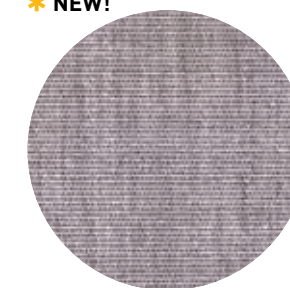
SA 314 471 silver grey,
dark brown knopped
similar to RAL 1013/7006
bordering 18 silver

*** NEW!**

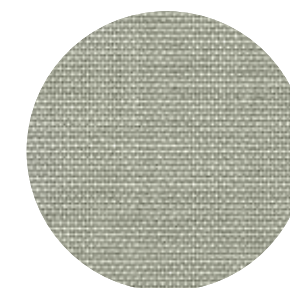


SA 314 030 light grey
similar to RAL 7047
bordering 18 silver

*** NEW!**



SA 314 028 stone grey, mottled
similar to RAL 7042
bordering 18 silver

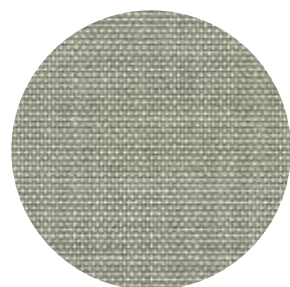


SA 314 044 grey-white
similar to RAL 7004
bordering 18 silver

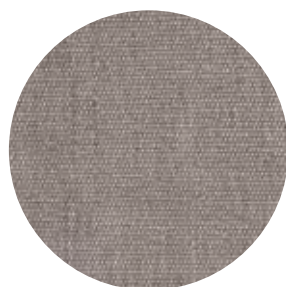
MayTex-Acryl with Texgard impregnation

- material: 100% polyacrylic, spun-dyed, weight 300g/m² ±5%
- water column (fabric water tightness) 370 mm, European standard EN 20 811
- colour fastness: grade ≥7 (against bleaching), tested acc. to standard EN ISO 105-B02 (1= min., 8= max.)
- colour fastness to artificial weathering: grade ≥4-5 (against bleaching), tested acc. to standard EN ISO 105-B04 (1= min., 5= max.)
- protection against UV rays: UPF 40-80, tested acc. to UV standard 801 (see page 185 for individual values)

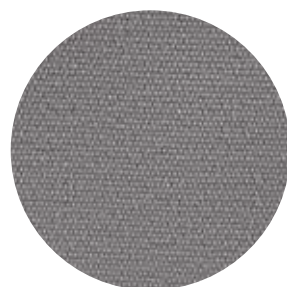
- weather-proof, high and low temperature resistant
- Texgard impregnation gives effective protection against oil, grease, mildew and algae, industrial pollution, exhaust fumes and other negative environmental factors
- tested acc. to Öko-Tex standard 100
- imprinted ads: on parasol canopy and valance in durable, brilliant screen-printing quality
- cleaning: easy to clean with CleanoMay 13, even when mounted



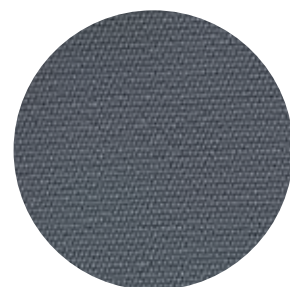
SA 314 364 telegrey/white
similar to RAL 7046
bordering 147 opal



DA 8779 olive brown
similar to RAL 7002
bordering 9533 olive brown



DA 7559 taupe
similar to RAL 7006
bordering 926 taupe



DA 8203 basalt grey
similar to RAL 7010
bordering 97 grey basalt

* NEW!



SA 314 398 atlas grey
similar to RAL 7043
bordering 97 grey basalt

* NEW!



SA 314 402 black/beige,
structured
similar to RAL 6006
bordering 19 black



SA 314 016 dark brown
similar to RAL 8017
bordering 27 dark brown



SA 314 154 black
similar to RAL 9017
bordering 19 black

The shades shown here are not in accordance with the original ones.
If requested, we will be pleased to send you a collection of original cloth samples.

MayTex-Poly

- material: 81% polyester, 19% polyacrylics, weight 230 g/m² ± 5%
- water column (fabric water tightness) 1000 mm, European standard EN 20811
- colour fastness: grade ≥7 (against bleaching), tested acc. to standard EN ISO 105-B02 (1= min., 8= max.)
- protection against UV rays: UPF80, tested acc. to UV standard 801 (see page 185 for individual values)

- Texgard impregnation gives effective protection against oil, grease, mildew and algae, industrial pollution, exhaust fumes and other negative environmental factors
- tested acc. to Öko-Tex standard 100
- imprinted ads: on parasol canopy and valance in durable, brilliant screen-printing quality
- cleaning: easy to clean with CleanoMay 13, even when mounted



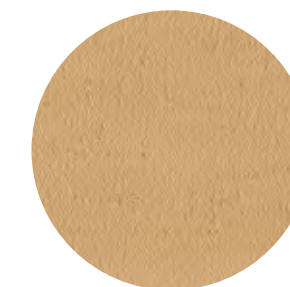
M 9577 white
similar to RAL 9010
bordering 00 white



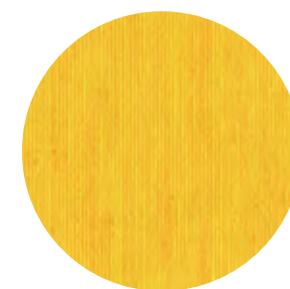
M 9823 ivory
similar to RAL 1015
bordering 20 ivory



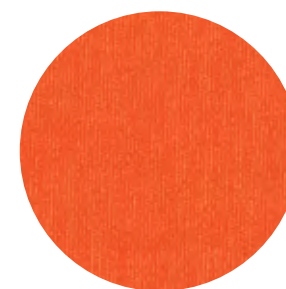
M 9875 creme
similar to RAL 1015
bordering 11 beige



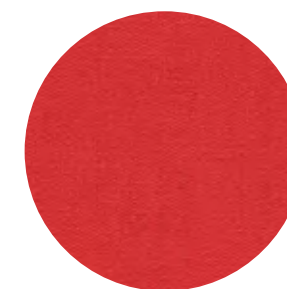
M 9816 sand
similar to RAL 1001
bordering 10 pyrite



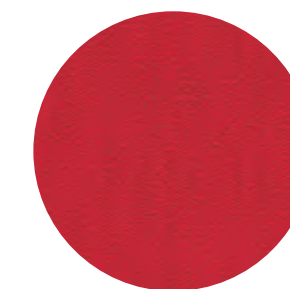
M 9526 bright yellow
similar to RAL 1023
bordering 32 yellow



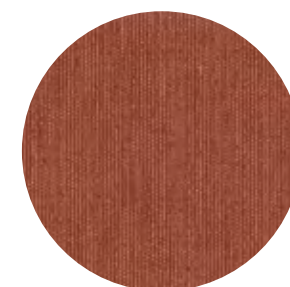
M 9527 orange
similar to RAL 2004
bordering 81 orange



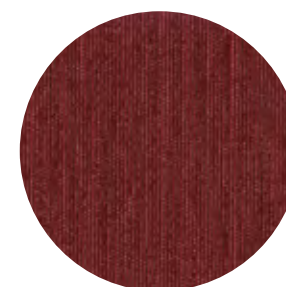
M 9671 red
similar to RAL 3020
bordering 82 red



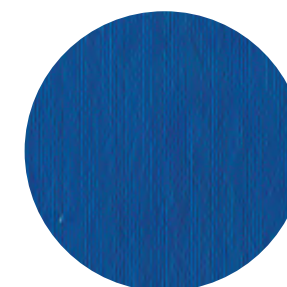
M 9675 cherry red
similar to RAL 3000
bordering 85 cherry



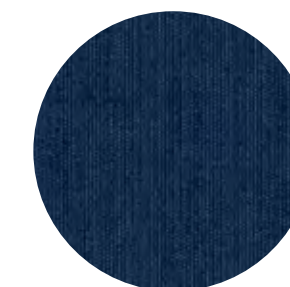
M 9878 terracotta
similar to RAL 8004
bordering 83 rust



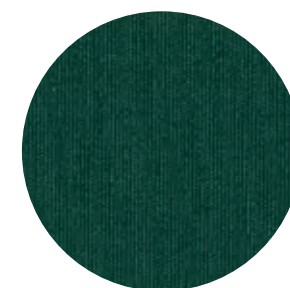
M 9879 bordeaux
similar RAL 3004
bordering 86 bordeaux



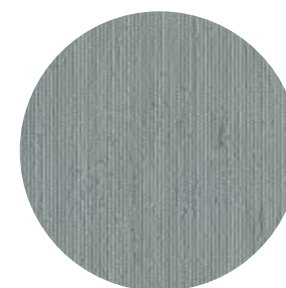
M 9793 bright blue
similar to RAL 5005
bordering 63 blue



M 9545 dark blue
similar to RAL 5003
bordering 91 navy blue



M 9710 woodland green
similar to RAL 6005
bordering 95 dark green

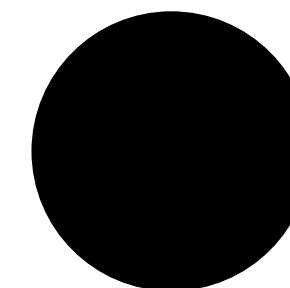


M 9653 grey
similar to RAL 7004
bordering 18 silver

* NEW!



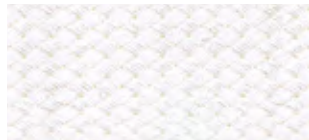
M 9654 graphite grey
similar to RAL 7024
bordering 97 grey basalt



M 9853 black
similar to RAL 9004
bordering 19 black

Borderings

If no colour is specified, a binding tape will be chosen to match the cloth.



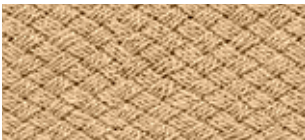
00 white



20 ivory



52 nature



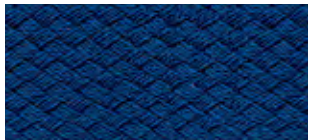
11 beige



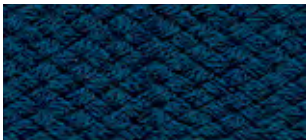
63 blue



187 blue patina



66 sapphire



91 navy blue



32 yellow



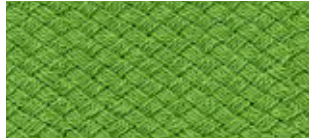
10 pyrite



79 mandarin



81 orange



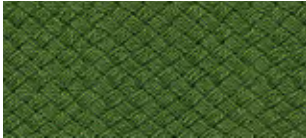
42 lime green



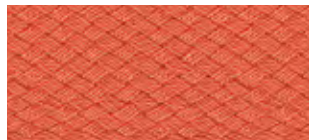
44 gras-green



162 green patina



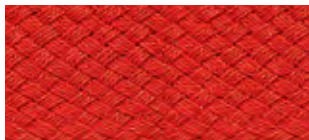
45 olive



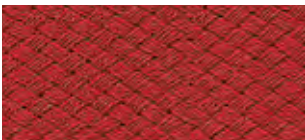
148 terracotta



* **NEW!** 410 magenta



82 red



85 cherry



95 dark green



18 silver



147 opal



97 grey basalt



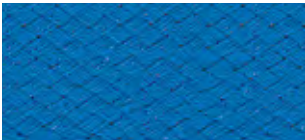
83 rust



86 bordeaux



* **NEW!** 91P mallow



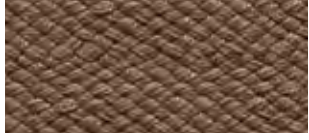
62 royal blue



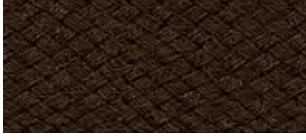
926 taupe



25 light brown



9533 olive brown



27 dark brown



19 black

The textile finishing of a parasol canopy – i.e. the fabrics – is not only the most important and most conspicuous feature of any sun protection system, it also fulfils numerous functions:

Colour, light and shade: personal well-being, atmosphere and decoration

The most comprehensive range of upmarket classics and specialities. The fabric keeps out the light. It protects, shades, creates atmosphere and serves as an element of design and decoration. The fabric evokes a sense of harmony and creates a feeling of well-being by filtering and tinting the light and thus lending a room and its environment a very special soothing atmosphere. The impact a fabric has on a person is decisively determined by its colour, pattern and degree of translucence.



Harmony and Inner peace
through well-balanced colours and natural shades of colour.

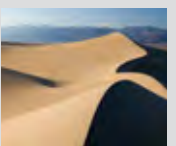


Joy of living
through vibrant colours.

Healthy shade provider,
protection from harmful UV radiation

The sun is a source of life and its light provides our bodies with essential vitamins, but it can also be very dangerous. Studies by the WHO indicate a threefold increase in skin diseases caused by harmful UV radiation. The UV Protection Factor (Sun Protection Factor) of our fabrics is a unit that indicates to what

extent they increase the human skin’s natural protection time to direct sunlight. The length of the natural protection of human skin depends on the skin type. The following designs have been tested and certified according to the latest and most stringent standard UV 801.

Sun Protection Factor				Effect on personal well-being	
	 UV STANDARD 801 Test-No. 35120 ÖTI GmbH	 UV STANDARD 801 Test-No. 33282 ÖTI GmbH	 UV STANDARD 801 Test-No. 35122 ÖTI GmbH	 joy of living	 Inner peace
MayTex-Acryl UNI					
SA 314 001, SA 314 002, SA 314 003, SA 314 007, SA 314 011, SA 314 014, SA 314 143, SA 314 397			Ⓢ	•	
SA 314 006, SA 314 016, SA 314 022, SA 314 028, SA 314 038, SA 314 044, SA 314 045, SA 314 154, SA 314 347, SA 314 362, SA 314 364, SA 314 398, SA 314 402, SA 314 414, SA 314 546, SA 314 624, SA 314 763, SA 314 396			Ⓢ		•
SA 314 325, SA 314 471, SA 314 583		Ⓢ			•
SA 314 010, SA 314 018, SA 314 030, SA 314 033, SA 314 580, SA 314 851	Ⓢ				•
MayTex-Poly			Ⓢ		

How high is your personal protection factor? Type 1- 6

Typ	Characteristics	Reaction of the unprotected skin to 30 mins. radiation in June	The human skin ´s natural protec- tion time	Protection time of the skin when shaded by a parasol		
				 UV STANDARD 801 Test-No. 35120 011 GmbH	 UV STANDARD 801 Test-No. 33282 011 GmbH	 UV STANDARD 801 Test-No. 35122 011 GmbH
1	light skin, freckles, fair or red hair, blue or green eyes	always sunburn no tan	5-10 minutes	200-400 minutes	300-600 minutes	400-800 minutes
2	light skin, fair hair, blue or green eyes	always sunburn a slight tan	10-20 minutes	400-800 minutes	600-1200 minutes	800-1600 minutes
3	dark hair, blue eyes	slight sunburn a good tan	20-30 minutes	800-1200 minutes	1200-1800 minutes	1600-2400 minutes
4	dark skin, dark or black hair, brown eyes	no sunburn a good tan	approx. 45 minutes	approx. 1800 minutes	approx. 2700 minutes	approx. 3600 minutes
5	dark skin, black hair, dark eyes	no sunburn	approx. 60 minutes	approx. 2400 minutes	approx. 3600 minutes	approx. 4800 minutes
6	black skin, black hair, black eyes	no sunburn	approx. 90 minutes	approx. 3600 minutes	approx. 5400 minutes	approx. 7200 minutes

