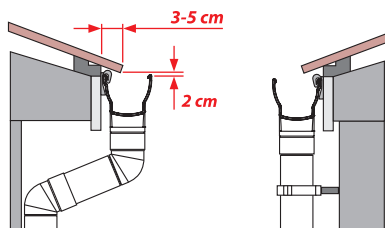


DESIGN

Roof drainage system design should be performed by an authorized and experienced designer, considering the requirements of EN 12056-3 and strictly following all national and local building codes and standards. The product is fit for rainwater handling from the roofs of residential, administrative and light industry buildings.

WARNING!!! In cases of installations on roofs of buildings in regions, susceptible to formation of snow and/or ice cover, please install suitable ice/snow protection fixtures on the roof, in order to prevent falling of ice/snow and serious damage to people and property.

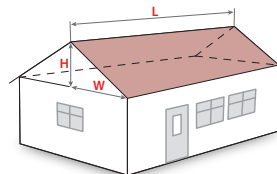
Distances between roofing tiles and gutters



The roofing tiles should be positioned according to the picture above.

Calculating Effective Roof Rainfall Area

$$S = (W + H/2) L$$



The running outlet should be positioned minimum 10 m away from the beginning of the slope.

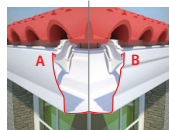
FLOW RATES

(calculations according to EN 12056-3)

Positioning of the outlet	slope 8 mm/m		slope 4 mm/m		horizontal	
	l/sec	m²	l/sec	m²	l/sec	m²
at the end	4,4	200	4,0	180	3,9	175
in the middle	8,8	400	8,0	360	7,8	350

All calculations are based on rainfall intensity of 80 l/(m² x h)

ADVANTAGES



2 in 1: STYLE AND FUNCTIONALITY

Conveniently combines two popular, elegant gutter styles in one product for higher flexibility.

"INVISIBLE" BRACKETS

Modern, "hanging" construction that employs strong gutter bracket, completely hidden behind the gutter profile.



RELIABLE INSTALLATION

The new improved Elegance running outlet provides more reliable thermal compensation.

STATE-OF-THE-ART UV PROTECTION

Specially developed to meet the critical requirements of the PVC rainwater management.



10 YEARS WARRANTY

Devorex warrants quality and performance of installations with system ELEGANCE 140 within a period of 10 years, subject to the warranty policy of the company.

CONTACT US



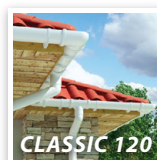
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tel.: (+359) 32 677 105, fax: (+359) 32 677 305
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DEVOREX

ENJOY BUILDING WITH US!



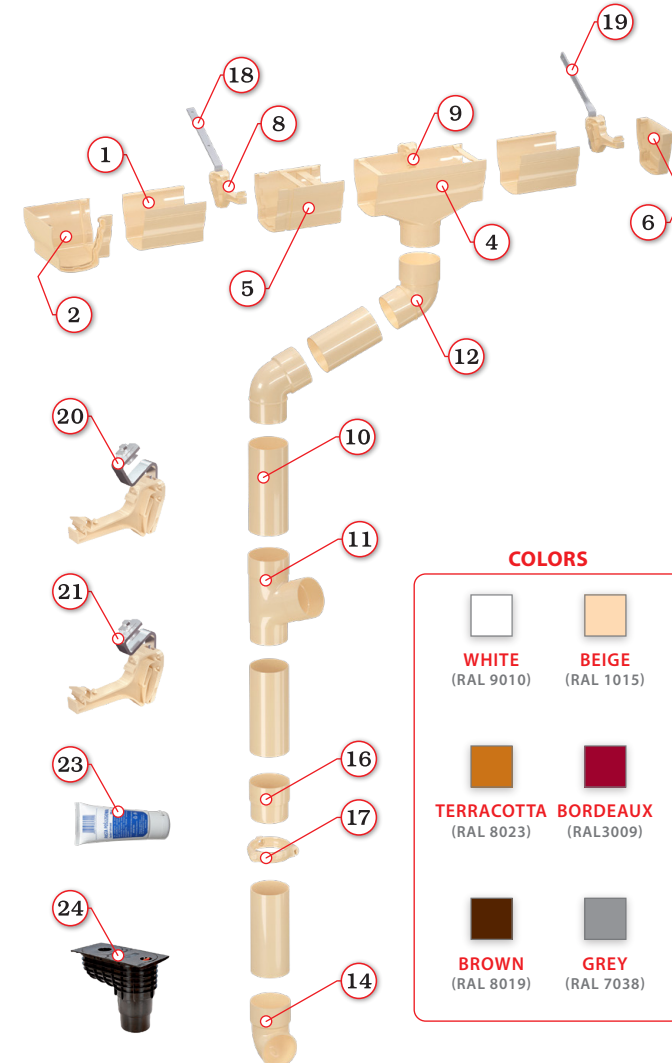
Two gutter profiles

ELEGANCE 140

Gutter system for roof drainage

WWW.DEVOREX.COM

ELEGANCE 140



COLORS

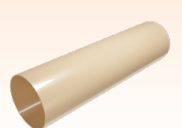
WHITE (RAL 9010)	BEIGE (RAL 1015)
TERRACOTTA (RAL 8023)	BORDEAUX (RAL3009)
BROWN (RAL 8019)	GREY (RAL 7038)



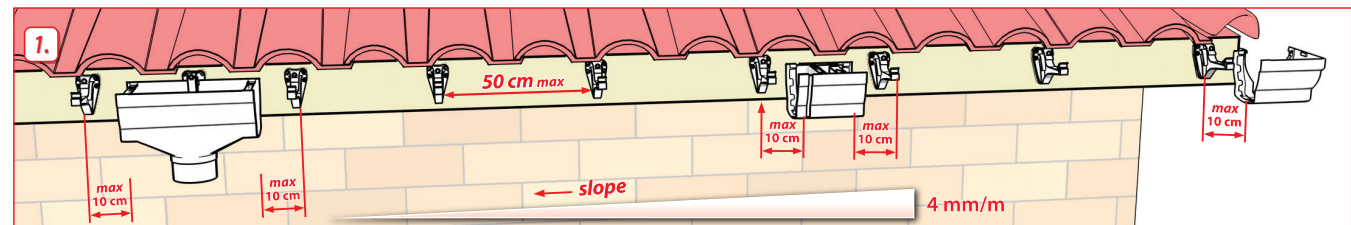
SYSTEM ELEGANCE

WINNER OF GOLD MEDAL
INTERNATIONAL TECHNICAL FAIR PLOVDIV - 2010

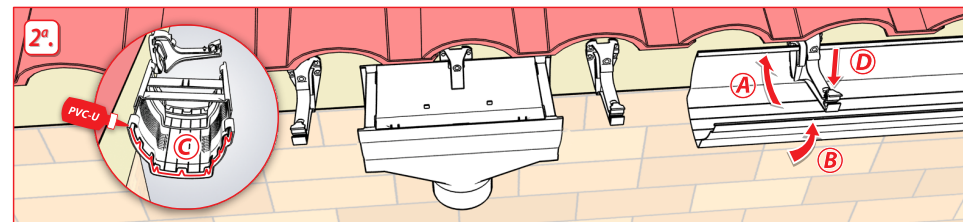
ELEGANCE 140 gutter - 3 m		
1 	white beige terracotta bordeaux brown grey	6
ELEGANCE 140 gutter angle 90° - A ext.		
2 	white beige terracotta bordeaux brown grey	16
Exterior for side A; Interior for side B		
ELEGANCE 140 gutter angle 90° - A int.		
3 	white beige terracotta bordeaux brown grey	16
Interior for side A; Exterior for side B		
ELEGANCE 140 running outlet Ø100		
4 	white beige terracotta bordeaux brown grey	12
ELEGANCE 140 gutter union		
5 	white beige terracotta bordeaux brown grey	8
ELEGANCE 140 gutter stopend - A left		
6 	white beige terracotta bordeaux brown grey	16
Left for side A; Right for side B		
ELEGANCE 140 gutter stopend - A right		
7 	white beige terracotta bordeaux brown grey	16
Right for side A; Left for side B		

ELEGANCE 140 gutter barcket		
	white beige terracotta bordeaux brown grey	50
ELEGANCE 140 element bracket		
	white beige terracotta bordeaux brown grey	50
RAINPIPE Ø100 pipe - 3 m		
	white beige terracotta bordeaux brown grey	4
RAINPIPE Ø100 branch 67.5°		
	white beige terracotta bordeaux brown grey	10
RAINPIPE Ø100 bend 67.5°		
	white beige terracotta bordeaux brown grey	20
RAINPIPE Ø100 bend 87.5°		
	white beige terracotta bordeaux brown grey	20
RAINPIPE Ø100 ending bend		
	white beige terracotta bordeaux brown grey	9

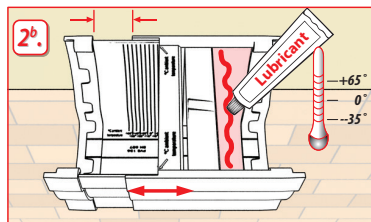
RAINPIPE Ø100 reduc. socket Ø100/Ø80		
	white beige terracotta bordeaux brown grey	25
RAINPIPE Ø100 pipe connector		
	white beige terracotta bordeaux brown grey	20
RAINPIPE Ø100 pipe bracket		
	white beige terracotta bordeaux brown grey	50
Rafter bracket		
18 	19 	18 - 100
top	side	19 - 100
Bracket adaptor		
20 	21 	- 90
for tile	for bitumen roofing	
Bolt & nut M6x50 for rafter brackets		
	-	10 50
Lubricant		
	-	30
Universal Gully		
	-	1



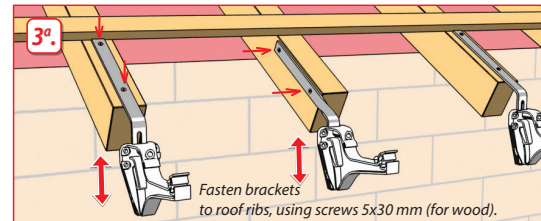
1. Considering the position of the downspout, fix the elements' brackets, used for attaching the running outlet, to the fascia board. Using a stringline, set the gradient and position the gutter fascia brackets, beginning with the furthest from the running outlet. The distance between two gutter brackets should be maximum 50 cm, and between a gutter fascia bracket and another gutter element, such as gutter union, running outlet, gutter angle and gutter stopend - between 5 to 10 cm. Use 5x30 mm screws for fixing all elements featuring fascia fixture holes or bolt and nut with size M6 x 50 for fastening brackets respectively to the fascia board or roofing tiles.



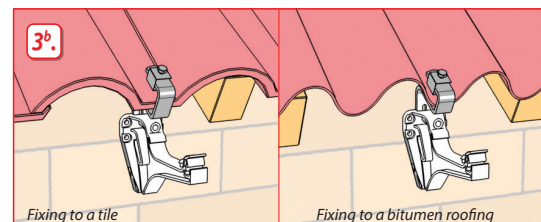
2^a. Slide the rear edge of the gutter and click it under the retaining clip (A) of the gutter fascia brackets. Make sure the gutter profile is in place. Hang the front edge of the gutter (B) on the gutter brackets clip hanger. Do not fix them in place. This will facilitate the movement of the gutter in both directions, during the installation process. Apply an even layer (C) of PVC-U glue only at the edges of the connecting elements. The gluing should be done consecutively from a gutter union to a gutter stopend. Make sure all elements are glued together. Clip the gutter (D) into place.



2^b. Apply Lubricant to the moving parts of the union. To accommodate the thermal movement of the PVC material, the gutter union should be adjusted according to the outside temperature during the installation process.

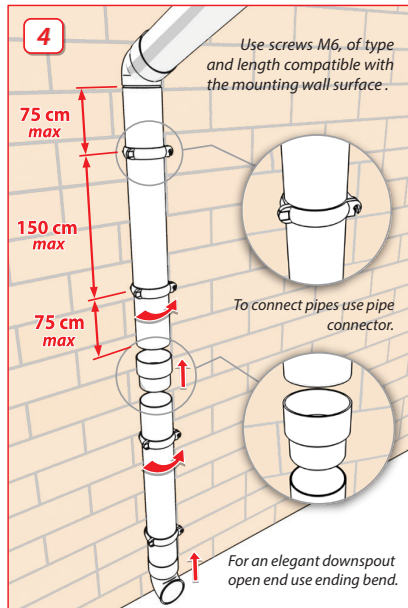


3^a*. To install the gutters on roof ribs use side or top rafter brackets. To easily adjust the needed gutter slope, use bolt and nut with size M6x50.



3^b*. To fix the gutters to tiles or bitumen roofing use correspondingly bracket adaptor for tile or bracket adaptor for bitumen roofing. To easily adjust the needed gutter slope, use bolt and nut with size M6x50.

* In areas with heavy snow fall the use of bracket adaptors or rafter brackets is NOT recommended. In such cases we recommend that you fix the gutter fascia brackets directly to the fascia board!



4. Install the pipe brackets at a maximum distance 150 cm from each other or at maximum 75 cm from the edges of the pipe. After laying the pipe in the pipe bracket bed, close the bracket and tighten the screw.

STORAGE & HANDLING

All gutters and pipes must be stored above ground, on wooden pallets or beams, providing support on at least each 50 cm. Avoid twisting or bending of gutters and pipes during storage. If stored outside provide a minimum slope of 5° in order to allow free water outflow.

WARNING!!! Concerning all elements of the system:
DO NOT cover or wrap with transparent or non-transparent foils or other protective, preventing the natural air circulation.
Use within the temperature range from -35°C to +65°C.
To avoid possible surface damages when handling, DO NOT slide pipes and gutters on top of each other.