

# COLPHENE FLAM 180

TECHNICAL DATA SHEET 200616SCANE

(supersedes 190913SCANE)



WATERPROOFING

APPLICATIONS

ADDITIONAL EXPERTISE

FOUNDATIONS

## DESCRIPTION

COLPHENE FLAM 180 is a waterproofing membrane composed of SBS modified bitumen and a non-woven polyester reinforcement. The surface and underface are covered with a thermofusible plastic film.

COLPHENE FLAM 180 is used as a waterproofing membrane on concrete for plaza decks, foundation walls and other below grade in horizontal or vertical applications.

## RECOMMENDED SUBSTRATE

The product must be installed over concrete substrate.

## SURFACE PREPARATION

The use of ELASTOCOL 350 or ELASTOCOL 500 primer is required before the installation of COLPHENE FLAM 180 membrane. The substrate should be clean, sound, dry and free of loose materials, grease and any contaminants, which may compromise the performance of the product.

## INSTALLATION

### HEAT-WELDED

COLPHENE FLAM 180 is heat-welded with a propane torch.

## RESTRICTION

Concrete must be cured a minimum of fourteen (14) days and an adhesion test is recommended before membrane application.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

## PACKAGING

Specifications	COLPHENE FLAM 180
Thickness	3.0 mm (120 mil)
Reinforcement	Non-woven polyester
Dimensions	1 m x 10 m (3.3 ft x 33 ft) 1 m x 12 m (3.3 ft x 39 ft)
Weight	3.7 kg/m <sup>2</sup> (0.8 lb/ft <sup>2</sup> )
Selvedge width	75 mm (3 in)
Surface	Thermofusible plastic film
Underface	Thermofusible plastic film
Qty/pal	30

(All values are nominal)



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Note: All products manufactured by SOPREMA, Inc. comply with the description and properties indicated in the data sheet in effect at the date of manufacture.

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## PROPERTIES

Properties	Standards	COLPHENE FLAM 180
Tensile strength, MD/XD	ASTM D5147	17 / 12,5 kN/m
Ultimate elongation, MD/XD	ASTM D5147	60 / 65 %
Tear resistance	ASTM D751	60 N
Puncture resistance	ASTM D5147	400 N
Dimensional stability	ASTM D5147 modified	-0.3 / 0.3 %
Water vapour permeance	ASTM E96 (Method B)	0.25 ng/Pa.s.m <sup>2</sup> (<0.04 perm)
Plastic flow	ASTM D5147	105°C (221°F)
Cold bending at -30°C (-22°F)	ASTM D5147	No cracking
Resistance to hydrostatic head	ASTM D5385	> 114 m (> 374 ft)

(All values are nominal)

## STORAGE AND HANDLING

Rolls must be stored upright, with the selvedge side on top. If the product is stored outdoors, cover them with an opaque protective cover after removal of the delivery packaging.



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