SOPRAJOINT
PLUS 40

TECHNICAL DATA SHEET 221101SCANE (supersedes 181207SCANE)

WATERPROOFING

APPLICATIONS
ROOFS
WALLS
ADDITIONAL EXPERTISE

DESCRIPTION

SOPRAJOINT PLUS 40 is a monolithic expansion joint made of EPDM-based synthetic rubber consisting of two (2) flanges coated on the surface and underface with a woven oxidized and stabilized polyacrylonitrile, with an expandable core.

It is designed to ensure complete waterproofing at expansion joints of buildings and civil engineering structures.

The SOPRAJOINT PLUS 40 expansion joint is a custom-manufactured special order product. Made up of two (2) flanges and a core, SOPRAJOINT PLUS 40 is designed to waterproof expansion joints in buildings.

SOPRAJOINT PLUS 40 expansion joints are custom-made to order. There are no limits with respect to length.

Moreover, SOPRAJOINT PLUS 40 can be adapted to various configurations and can fit in 90-degree, angled, cross, T-shaped and curved transitions, as well as continuously in other directions thanks to an assembly process by vulcanization.

They allow movement in the three (3) axis (horizontal, vertical and shear) at the same time.

SURFACE PREPARATION

SOPRAJOINT PLUS 40 expansion joint must be installed on a solid (structural) surface which is smooth, clean, dry and free of any loose materials.

INSTALLATION

Identify the installation starting point of the SOPRAJOINT PLUS 40 expansion joints.

Unroll the entire SOPRAJOINT PLUS 40 roll before installation to ensure positioning and measurements are accurate.

HEAT-WELDED

SOPRAJOINT PLUS 40 expansion joints can be heat-welded using this process:

1. Using a propane torch, heat the base sheet on which the SOPRAJOINT PLUS 40 will be installed.
2. Place or unroll the SOPRAJOINT PLUS 40 on the liquefied bitumen of the base sheet membrane and apply pressure to the surface.
3. Weld a minimum of 150 mm (6 in) reinforcing strip centered on the edge of the flange and apply pressure to the surface.
4. Cover the flanges with a cap sheet membrane all the way up to the edge of the core and apply pressure to the surface.
5. According to surface constraints, and when it is necessary to protect the core of the SOPRAJOINT PLUS 40 expansion joint, cover with a cap sheet membrane (of at least 330 mm [13 in]), centered over the joint and fixed on one side to allow expansion movements, or use a steel plate, concrete or other mechanical protection.

Note: It is recommended that base sheet and cap sheet membranes are installed the same day to prevent the geotextile from absorbing moisture.

For cold adhesive, liquid waterproofing, adhesive, hot bitumen and self-adhesive installation methods, see SOPRAJOINT PLUS TECHNICAL GUIDE.

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

PACKAGING

Specifications	SOPRAJOINT PLUS 40
Length	Measurements can be taken from plans and/or evaluated on-site.
Weight	1.1 kg/m (0.74 lb/ft)

(All values are nominal)

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

SOPREMA®

NOTE : All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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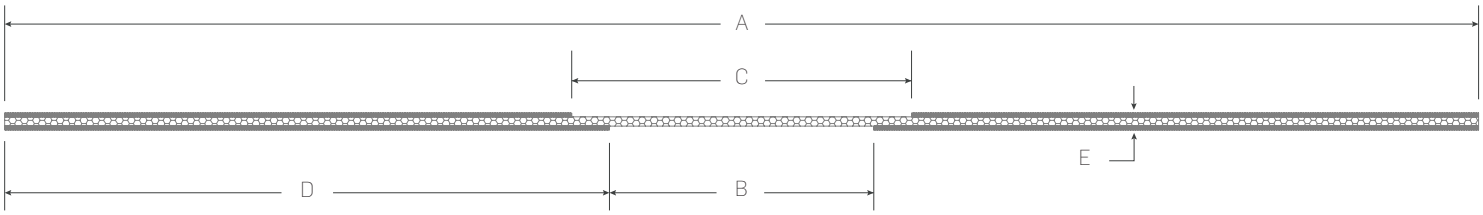
DIMENSIONS OF THE EXPANSION JOINT

Specifications	Dimensions of SOPRAJOINT PLUS 40 expansion joint				
	A	B	C	D	E
SOPRAJOINT PLUS 40	390 mm (15.4 in)	70 mm (2.8 in)	90 mm (3.5 in)	160 mm (6.3 in)	2.5 mm (3/32 in)

(All values are nominal)



MOVEMENTS

Simultaneous movements of SOPRAJOINT PLUS 40 in 3 axis		
Horizontal	Vertical	Shear
60 mm (2.4 in)	50 mm (2 in)	40mm (1.6 in)

(All values are nominal)

PROPERTIES

Properties	Standards	SOPRAJOINT PLUS 40
Hardness shore A	ASTM D2240	45 ± 5
Tensile Strength	ASTM D412 C	10 MPa (145 lb/ft^2)
Elongation at Break	ASTM D412 C	> 700 %
Tear Resistance	ASTM D624B	>10 N/mm (57 lb/in)

(All values are nominal)

RESTRICTIONS

Avoid extended contact with mineral oils, benzene, fuels and aromatic compounds, such as toluene.

STORAGE AND HANDLING

SOPRAJOINT PLUS 40 expansion joints must be sheltered from inclement weather and damaging substances. If the products are stored outdoors, cover them with an opaque protection cover.

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