

Technical Data Sheet Flexjoint EP

Product Description / Use:

The elastic material for Flexjoint EP consists of an EPDM elastomer (ethylenpropylen diene unvulcanized rubber with saturated polymethylene main chain) with the following properties:

- Accommodates 3-dimensional movement at the same position.
- Available in angle change pieces or simple straight runs for flat in plane joints.
- Excellent properties for protecting against ozone & UV rays.
- Long term resistance up to +90°C
- Maintains flexibility at temperatures as low as -40°C

Additionally, EPDM materials for Flexjoint EP are generally very resistant to water, steam and chemicals such as some solvents, acids and saline solutions.

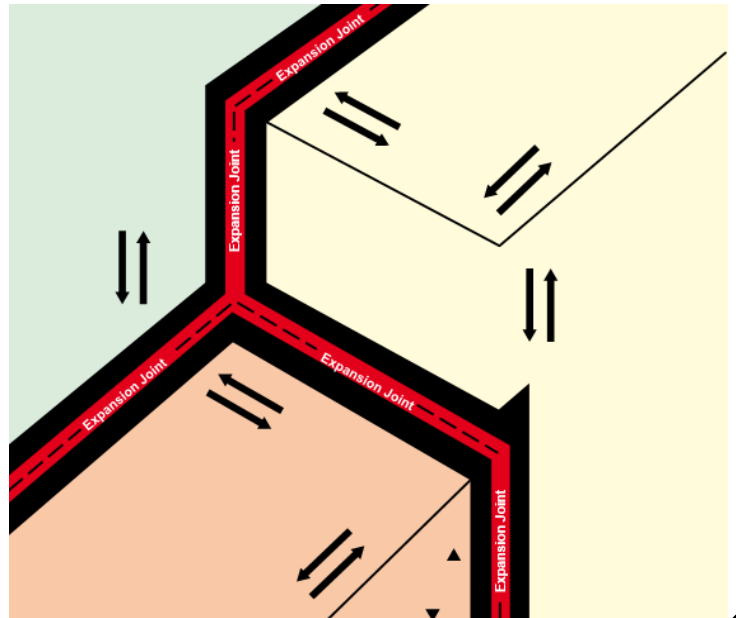
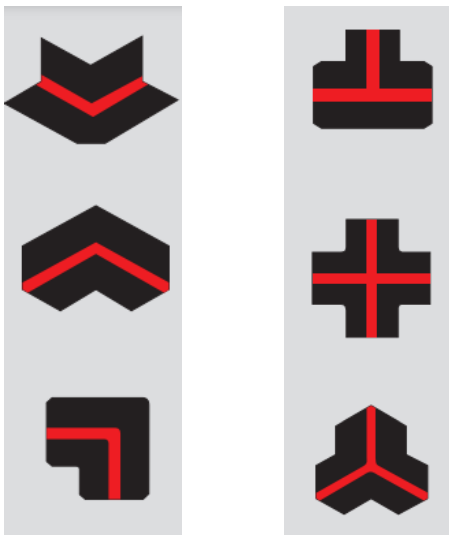
Contact during installation phase with the torch won't impair the material properties.

Low resistance to mineral oils, benzene, fuels and aromatic compounds, such as toluene. Prolonged contact with these agents should be avoided.

Jointing:

Flexjoint EP is ideally supplied to site in pre-fabricated sections, to a bespoke project design, ensuring accuracy and eliminating any weak points in the joints. Options for 'in-house' or 'on-site' jointing if necessary, but due to the vulcanisation process needing to be completed on site, this is not always feasible.

A range of pre-formed factory pieces are available for a variety of internal, external corners and jointing pieces.

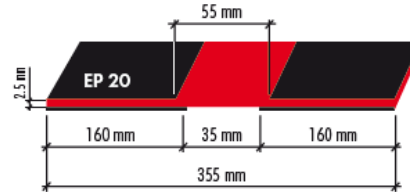


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Technical Specification:

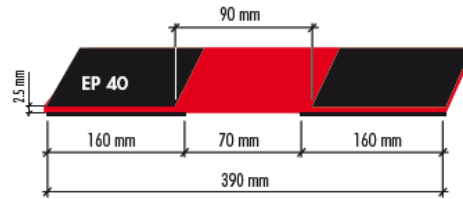
Flexjoint EP20

Horizontal movement	(max. ± 30 mm)
Shear movement	(max. ± 20 mm)
Vertical movement	(max. ± 25 mm)



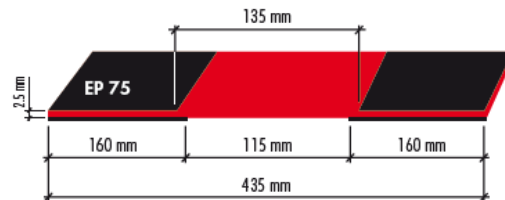
Flexjoint EP40

Horizontal movement	(max. ± 60 mm)
Shear movement	(max. ± 40 mm)
Vertical movement	(max. ± 50 mm)



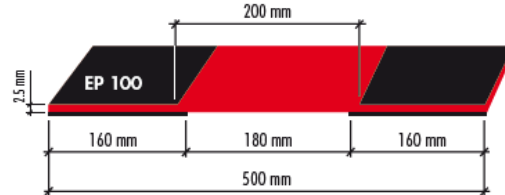
Flexjoint EP75

Horizontal movement	(max. ± 100 mm)
Shear movement	(max. ± 75 mm)
Vertical movement	(max. ± 85 mm)



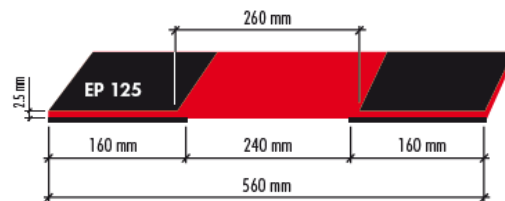
Flexjoint EP100

Horizontal movement	(max. ± 150 mm)
Shear movement	(max. ± 100 mm)
Vertical movement	(max. ± 125 mm)



Flexjoint EP125

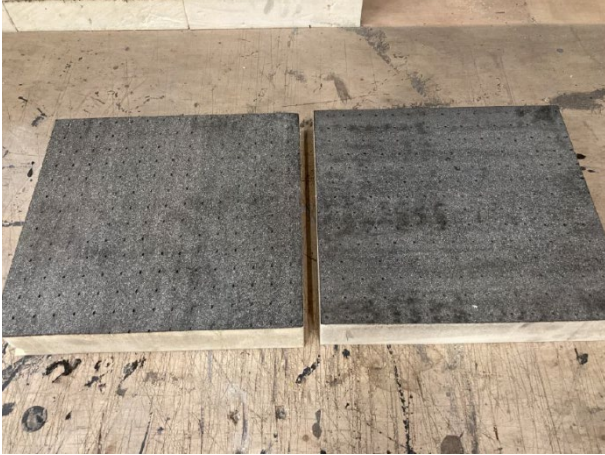
Horizontal movement	(max. ± 200 mm)
Shear movement	(max. ± 125 mm)
Vertical movement	(max. ± 170 mm)



Characteristics	Units of measure	Specifications	Values
Hardness (H)	Shore A	DIN 53505	40 \pm 5
Tensile strength	N / mm ²	DIN 53504	> 10
Elongation at break	%	DIN 53504	> 700
Compression set (at 23°C and 70°C)	%	DIN ISO 815-1	20 % or 44 %
Resistance to ozone cracking	crack level	DIN 53509-1	crack level 0
Water vapour permeability	μ	DIN EN ISO 12572	83,000 μ
Fire behaviour		DIN EN 13501-1	class E
Resistance to alkalis (storing in lime water)		DIN EN 1847	average > 5%
Folding under low temperature - 40°C		DIN EN 495-5	no crack
Resistance to aging (UV, temp. / water)		DIN EN 12974	no crack

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Installation:



1) Joint in substrate or thermal insulation



2) Waterproofing base layer over joint (*membrane oriented along the joint line*)



3) Cut the waterproofing base layer using a hook blade



4) Install the Flexjoint over the joint



5) Heat the upper face of the waterproofing base layer as the Flexjoint roll is rolled onto the heated bitumen



6) Apply pressure using a roller

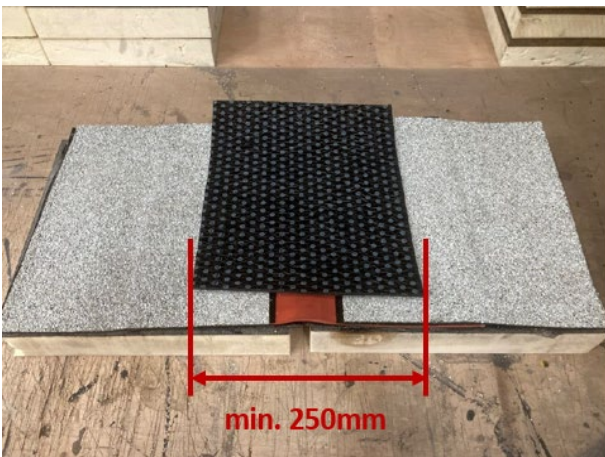
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7) Ensure care is taken to avoid directly torching the joint (*temporary protection of exposed joint*)



8) The waterproofing cap sheet is torch bonded to the upper side of the joint



9) A slip layer of waterproofing base layer is loose laid along the centre of the joint (**min. 250mm**)
(*This can be fixed at either end for ease of installation*)



10) Section through detail once complete

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