

# FILLCRETE BRICKFILL S

## Movement Joints



### Key Features

- Ideal for brick and blockwork
- Meets PD6697 specification
- Very low water absorption
- Oil and ozone resistant
- All rolls include tear-off strips
- Wide range of sizes and thicknesses plus specials
- Nationwide delivery
- CFC and HCFC free

## What is FILLCRETE BRICKFILL S?

BRICKFILL S is a low resistance cellular polyethylene expansion joint filler specifically designed for brick and blockwork which fully meets the recommendations of PD 6697:2019 Recommendations for the design of masonry structures to BS EN 1996-1-1 and BS EN 1996-2. The relevant passage states:

***“The material for filling movement joints to accommodate expansion should be easily compressible to approximately 50% of its original thickness. Flexible cellular polyurethane, cellular polyethylene or foam rubbers are satisfactory materials.” Hemp, fibreboard, cork and similar materials should **NOT** be used for expansion joints in clay brick masonry, but may be used for contraction joints in calcium silicate and concrete masonry.***

BRICKFILL S is ideal for all fired-clay brickwork, calcium silicate brickwork and concrete blockwork applications. It can also be used in poured concrete applications where either a straight joint or contoured profile is required. The removable tear off strip allows the installation of the proper depth of the sealant and this can be reused as a backer rod or filler strip.

BRICKFILL S is a low density polyethylene manufactured by a CFC and HCFC free process. Any waste material from conversion into cut widths is recycled via a closed loop process to reduce landfill.

## BRICKFILL S in Use

BRICKFILL S is weather, oil and ozone resistant. It has very low water absorption properties with a density of Av 30 kg/m<sup>3</sup>

BRICKFILL joints can be sealed using a polysulfide or low modulus silicon which has sufficient flexibility to accommodate movement and be resistant to water penetration. .

## Joint Design

Generally, and to allow for the compressibility of the movement joint filler, the width of a vertical expansion joint in millimetres should be about 30% more than the distance between joints in metres [PD6697 clause 6.2.6.3.2].

A 10m brick wall will require a 10-12mm BRICKFILL S joint. PD6697:2019 recommends up to 16mm of expansion joint at 12m centres for clay-fired brickwork, depending on the brick used. This may be modified at the designer's discretion in consultation with the brick manufacturer.

A vertical movement joint should be located at no greater than half the maximum spacing from a corner or return in a wall. For joint spacing of 12 metres in a straight run of walling, a joint is required to be no more than 6 metres from the corner.

A horizontal movement joint should be provided at no more than every third storey or 9 metres whichever is the less.

## Availability

BRICKFILL S is available in conveniently packed 10m rolls, strips and sheets in a range of widths and thicknesses.

## Technical Data

Density	ISO 845:2006 Av 30 kg/m <sup>3</sup>	
Compressive Strength 4 <sup>th</sup> Compression	25%	ISO 3386 1986 pt 1 30 KPa
	50%	90 KPa
	70%	205 KPa
Compression Set 50% Compression	ASTM D3575-08 suffix B	<10%
Compressive Creep 1.25 psi – 8.75 kg/dm <sup>2</sup>	ASTM D3575 suffix BB 168 hrs	<10%
	Tensile Elongation	ISO 1798:2008
Elongation at Break	ISO 1798:2008	65%
Tear Strength	ASTM D3575-08	17N/cm
Thermal Conductivity	ISO8301	0.05 W/mK
Water Absorption	ISO 2896:2001	<3%
Cell Size	BS4443/1	≥26cells/25mm
Thermal stability	ISO 2796	<2%

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