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# SPECcell Polyethylene 40

CLOSED CELL POLYETHYLENE FOAM JOINT FILLER BOARD

## DESCRIPTION

**SpECcell Polyethylene 40** is a high performance closed cell polyethylene foam joint filler. It is suitable for use as an expansion joint filler in concrete, brickwork and blockwork, and in isolation joints where a readily compressible low load transfer joint filler is required.

## TYPICAL USES

- Structural expansion joints in concrete, brick and blockwork
- Isolation joints to infill panels
- As a back-up support for sealants
- As a bond breaker for sealants over bituminous joint fillers
- Anti-vibration pads for machinery bases

## ADVANTAGES

- Non-absorbent, closed cell
- Readily compressible
- Rot proof
- Deformable - accepts temperature cycle with minimal load transfer
- Non-tainting, suitable for potable water applications
- Excellent recovery after compression
- Resilient - will not distort under normal load from wet concrete
- Easily worked - can be cut with a knife
- Economical in use
- Bitumen free - suitable for use with elastomeric sealants
- Chemical resistant - inert to most dilute acids and alkalis; resistant to oil and hydrocarbons

## RELEVANT STANDARDS

**SpECcell Polyethylene 40** meets or exceeds the requirements of the following specifications:

- ASTM D1752 (extrusion and recovery at 50% compression)
- U.K. Department of Transport Specification for

Highway Works Part 3 - Clause 1015.1991

- U.K. DOE Specs for Road & Bridge Works - Clause 2630
- BS 5628 Part 3: 2001
- ASTM D 3575-08
- U.K. Department of the Environment General Specification 201, Clause 606

## TECHNICAL DATA

<b>Colour</b>	White
<b>Density</b>	40 kg/m <sup>3</sup>
<b>Water absorption by volume</b>	≤0.55%
<b>Compressive strength</b>	>0.15 N/mm <sup>2</sup>
<b>Recovery at 50% comp.</b>	>90%
<b>Extrusion on 50% comp.</b>	<6.6mm
<b>Operating temperature</b>	-40 °C to 70 °C
<b>Fire effect</b>	<b>SpECcell Polyethylene 40</b> will melt in fire; the rate of spread of flame is minimized when confined in a joint
<b>Compression loading</b>	Meets the requirements of BS 5628 Part 3

## APPLICATION

**SpECcell Polyethylene 40** is a compressible joint filler in sheet form, used to form and fill expansion joints.

### *In Concrete:*

**SpECcell Polyethylene 40** can be placed against formwork on the concreting side prior to placing the first section of concrete and is left in place on removal of the formwork. The subsequent pour is then cast directly against the **SpECcell Polyethylene 40**. The board is then cut back later to form the sealing slot.

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***In Blockwork and Brickwork:***

**SpECcell Polyethylene 40** should be installed, whilst laying brick or blockwork, in such a way that a sealing slot, of the required dimensions is formed.

**PACKAGING & YIELD**

**SpECcell Polyethylene 40** is available in the following sizes:

- Thickness: 10, 15, 20 & 25 mm
- Board size: 1m x 2m

**STORAGE & SHELF LIFE**

Indefinite when stored in cool and dry conditions.

**HEALTH & SAFETY**

There are no health hazards associated with the normal use of **SpECcell Polyethylene 40**.

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