

# Estocell

## Bitumen Impregnated Fibre Board

### Description

**Estocell** is a compressible, bitumen impregnated fibreboard, supplied in sheet form. It is used to form and fill expansion joints between in-situ and precast concrete construction.

### Uses

**Estocell** is a compressible joint filler suitable for forming joints between in-situ and pre-cast concrete components.

It is used to form structural expansion and separation joints in:

- Concrete roads, ramps and runways
- Bridges and pedestrian areas
- Concrete pavements and floors
- Building basement structure and subways
- Concrete retaining walls

### Advantages

- Simple and easy to handle and install
- Will not extrude under compression
- Resilient
- Economical

### Standards Compliance

- ASTM D545

### Physical Properties

Form	Compressible Sheet
Compression, kPa ASTM D545	700 – 5200
Recovery, % ASTM D545	> 70
Loss of Weight, % ASTM D545	< 3.0
Extrusion, mm ASTM D545	< 6.4
Weathering Test	No Disintegration

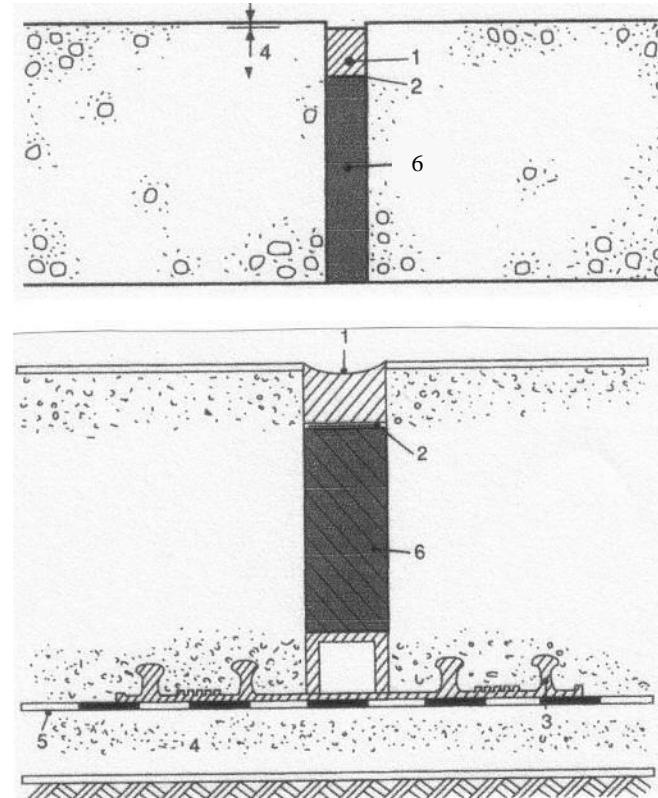
### Specification Clauses

The expansion joint filler as detailed shall be **Estocell** supplied by Estop and installed strictly in accordance with the manufacturer's written instruction.

### Design Criteria

Example of a sealed expansion joint in a subway is shown below:

1. Estojoint / Estoliastic
2. Bond breaking tape
3. Estopper Rearguard E250
4. Lean concrete
5. Waterproofing membrane
6. **Estocell**



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5. Waterproofing membrane
6. **Estocell**

### Installation Instructions

When **Estocell** is used to form an expansion joint in concrete, it should be placed against the shuttering on the concreting side before the pour commences.

Copper nails may be used to prevent displacement in joints in suspended slabs.

**Estocell** may be bonded to the existing slab or previous pour using a suitable adhesive such as Estoflex GP, bitumen emulsion or equivalent wall panel adhesive.

Care should be taken not to contaminate surfaces of the sealing slot with the adhesive.

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### Joint Sealing

Putting a removable timber former on top of the **Estocell** can form a joint sealing slot.

**Estocell** can be installed to the full dept of the slab and cut back to the required depth then using a power brush machine. This method is used for housing estate roads, which cannot be cleaned and sealed until all building work had been completed.

**Estocell** should be tamped down to ensure that it fills the joint completely and provides continuous support for the joint sealant.

### Packing & Size

#### **Estocell**

10.0mm thick	1.22m x 2.20m /sheet
12.5mm thick	1.22m x 2.20m /sheet
20.0mm thick	1.22m x 2.20m /sheet
25.0mm thick	1.22m x 2.20m /sheet

\*Note: Estocell are manufactured bitumen impregnated filler. As such during post manufacturing, there shall be a tolerance factor of 10% of actual size.

### Technical Support

Denka offers a technical support package to specifiers, end-users and contractors, as well as on site technical assistance.

### Storage

Product should be stored in dry and covered area.

### Precaution

There are no known health hazards associates with **Estocell** in normal use.

### Additional Information

**Denka Construction Solutions Malaysia Sdn Bhd** offers a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



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