

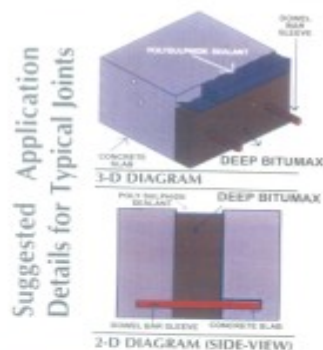
## DEEP BITUMAX

Bitumen Impregnated Fiber Filler Boards For EXPANSION JOINTS as per IS 1838/1983 (Part I)

Deep Bitumax is processed to satisfied the performance requirements specified by Bureau of Indian Standard IS - 1838-1983. It is made from Cane Fiber Board impregnated with Bitumen. Penetration of bitumen chemical inside the Boards is done with the expertise to provide the water resilience till the last part of the Board which makes it suitable for & perform with excellence in the various difficult conditions of concrete structures. Also provides Suspension to the Concrete Structure to sustain in the difficult situations of the atmospheric changes, Settlement of Foundation, Sudden & Spontaneous Loads etc.

It is available in the large thickness 10 mm, 12 mm, 18 mm, 25 mm, 40 mm, 50mm

Available Sizes : 1.22 Meter X 1.22 Meter ( 4' X 4' ) & 0.610 Meter X 1.22 Meter ( 2' X 4' )



### CHARACTERISTICS:

Deep Bitumax is made from natural cane fibre Boards which make it environment friendly as compare to thermocole / Plastic Expansion Joint Fillers. It gives Best Compression & Recovery Characteristics as per various American, European, British & Indian Standards.

### APPLICATION:

As expansion joint Filler in all concrete traffic surfaces of Highways, Airports, Runways, Cement Roads, pavements, Aprons, Curbs, Gutters, in Reinforced concrete Structures like Piers, Retaining walls and Lateral Support in Abutments, etc.

**PROCEDURE TO APPLY:** Deep Bitumax is brought flush with the concrete slab & extends full depth of the slab, placed approximately 18-20 mm below the surface of the concrete slab. A suitable sealant is applied either at the top or bottom of the slab to close the joint against hydrostatic pressure. The dowel bar is used to preserve alignment of adjacent sections of concrete slab. Deep Bitumax is fabricated to receive dowel bars and the entire joint assembly is placed in position before pouring concrete.

**PROPERTIES:** PHYSICAL PROPERTIES that no other expansion joint fillers possess

**Compression:** Deep Bitumax when initially subjected to a load between 689 to 5171 KPa ( or 100 to 750 Psi) in order to compress it by 50% of its original thickness, It shows a loss of not less than 0.1 to 0.2% by Weight. ( Permitted : Less than or equal to 3% by Weight )

**Extrusion:** Deep Bitumax when compressed to 50% of its thickness with 3 edges restrained, it shows an extrusion of not more than 2 to 3 mm on its free edge. (permitted : Less than or equal to 6.4mm)

**Recovery:** Deep Bitumax when compressed to 50% of its thickness, it observed that it recover to 85-88% of its original thickness within 10 Minutes after the removal of load. ( Permitted : Atleast 70% or Higher )

**Unaffected by temperature changes:** Deep Bitumax holds its shape without appreciable dimensions changes when exposed to temperature extremes. It does not get soft at higher temperature nor brittle at lower temperatures.

**DEEP  
POLYMERS**

Nation-wide distribution network



**Durability and easy handling:** Deep Bitumax is tough & maintains its thickness & surface finish under Loading & Stacking. Due to Bitumen Impregnation it resist absorption of water & moisture. This material withstands severe environmental conditions for very long period of time.

**Excellent concrete bonding:** The Rough textured surface of the Deep Bitumax provides a good bond between the expansion joint filler & poured concrete.

**BITUMEN CONTENT:**  
It can be supplied as per IS 1838 Requirement or as per the specific requirement of Customer.

**QUALITY GUARANTEE:**  
Strict monitoring by our on site quality control engineers

**TESTING:**  
The Deep Bitumax Can be Supplied with the test report from Govt. Engg. College VNIT, Nagpur.



DEEP BITUMAX

### Technical Test Report of DEEP BITUMAX as per IS 1838/83 Part ( 1 )

Test	RESULTS			IS 1838 (Part I) Requirements
	1/2" thick	3/4" thick	1" thick	
1. Recovery (%)	73.5%	73.5%	74.2%	At least 70%
2. Compression (N/Sq mm)	2.5	2.5	2.5	Minimum 0.7 N/Sq mm
3. Extraction (mm)	3	3	3	Less Than 6.5 mm
4. Water adsorption (%)	8.9.5%	10-11%	10.5-11%	Not more than 20%
5. Density (Kg/Cb m)	360-365	360	360	300 (Kg/Cb M)
6. Bitumen Content (%)	39	38	38	Minimum 35%
7. Penetration of the recovered Bitumen	36	36	36	Between 25-100

### Copper Sheet /Metal Expansion Joint

#### Description:

Copper/Metal Waterstop Seal is used for heavy structures, where joints are to be extra-ordinarily protected. Due to its ductile nature copper is the most suited material for this purpose. Various shapes of copper may be used to serve the application is most common. Shape either in the thickness of 1.5 mm or 1.8 mm. or as per required Gauges. The integrity of the waterstop system depends on proper fabricated waterstop splices to achieve a complete fluid tight system.



#### Installation:

Proper Water Splices, including butting straight lengths, changes of direction, and intersections are very important. Copper water stop should be continuous for the extension of the joint. Position the copper waterstop so the V or Z expansion zone is catered in the joint. Support & secure the waterstop in the position to limit displacement during the placement of the concrete.