

# Jolly Bitulex

**PAC**  
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## Bitumen Joint Filler Board

### Processed at the only Bitumen Board Mill in Asia

Jolly Bitulex is processed by Jolly Board Ltd; pioneers of soft board manufacture in Asia. Jolly Board has been manufacturing and exporting quality bitumen impregnated expansion joint fillers for the past 40 years.

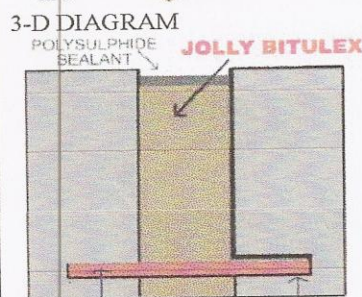
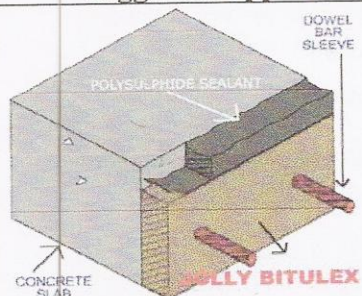
Jolly Board Ltd, is an ISO 9001 : 2000 certified company. (Head office in Mumbai, Factories at Aurangabad & Sangli)

#### CHARACTERISTICS :

##### JOLLY BITULEX

- IS PROCESSED FROM CANE FIBER AND BITUMEN. THESE RAW MATERIAL ARE TESTED AND PROVEN TO PROVIDE THE BEST RESILIENCE
- IS MADE WITH SWEDISH MACHINERY AND TECHNOLOGY, DEVELOPED THROUGH YEARS OF INTENSIVE RESEARCH. .
- IS AVAILABLE IN A WIDE RANGE OF THICKNESSES AND SIZES.
- IS AN ENVIRONMENT FRIENDLY PRODUCT AS OPPOSED TO THE ENVIRONMENT DESTROYING THERMO COLE/PLASTIC EXPANSION JOINT FILLERS.
- THE BOARD'S COMPRESSION AND RECOVERY CHARACTERISTICS CONFORM TO THE AMERICAN, EUROPEAN, BRITISH AND INDIAN STANDARDS.

#### Suggested Application Details for Typical Joints



2-D DIAGRAM (SIDE-VIEW)

Jolly Bitulex is brought flush with the concrete slab and extends full depth of the slab, placed approximately  $\frac{3}{4}$  of an inch 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. Jolly Bitulex is fabricated to receive dowel bars and the entire joint assembly is placed in position before pouring concrete.

#### JOLLY BITULEX

confirms to the following required standards of expansion joint fillers:

- ASTM-D. 1751
- B.S. 1142
- IS 1838

#### PHYSICAL PROPERTIES

that no other expansion joint fillers possess

**Compression** Jolly Bitulex 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 more than 0.1 to 0.2 % by weight. (Permitted : less than or equal to 3% by weight).

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

**Recovery** Jolly Bitulex when compressed to 50% of its thickness, it is observed that it recovers to 85-88% of its original thickness, within 10 minutes after the load is removed. (Permitted : at least 70% or higher)

**Unaffected by temperature changes:** Jolly Bitulex expansion joint filler holds its shape without appreciable dimension change when exposed to temperature extremes. It does not get soft at higher temperatures nor brittle at lower temperatures.

**Low moisture absorption** due to Bitumen Impregnation.

**Durability and easy handling:** Jolly Bitulex is tough and maintains its thickness and surface finish under loading and stacking. Due to Bitumen Impregnation it resists absorption of water. This material withstands severe environmental conditions for very long periods of time.

**Excellent concrete bonding:** The rough textured surfaces of Jolly Bitulex provides a good bond between the expansion joint filler and poured concrete.

#### APPLICATIONS:

- ✓ Expansion joint filler strips in all concrete traffic surfaces like highways, airport, runways and streets.
- ✓ Expansion joint fillers in driveways, aprons, pavements, curbs, gutters and other concrete paving work.
- ✓ Expansion joint fillers in reinforced concrete structures like piers, retaining walls, and lateral supports like abutments.
- ✓ Expansion joint fillers are used against existing or between adjacent constructions and insets in concrete paving like drains, manholes, etc.
- ✓ Industrial Flooring.
- ✓ Various other internal finishes, flat works and concrete floors according to the state of art and local regulations.

**SIZES :**

Standard sheet sizes:  
 7.3' x 4 ft - 2200 x 1220mm  
 8 x 4 ft - 2440 x 1220mm  
 Other sizes available on requests

**THICKNESS:**

10 - 12 - 18 - 25 mm

**BITUMEN CONTENT:**

35% Bitumen Content as per ASTM and other established standard, we also supply 10-20% Bitumen content as per customers' requirements.

**QUALITY GUARANTEE:**

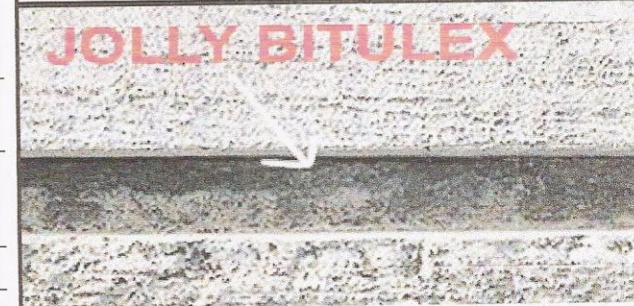
Strict monitoring by our on site quality control engineer

**SUGGESTED EXPANSION JOINT SPACING IN ORDINARY CONCRETE CONSTRUCTION**

Joint Spacing(Approx.)	6m-9m	9m-15m	15m-21m	21m-30m
Recommended Thickness of Jolly Bitulex Expansion Joint Filler	9.52mm	12.70mm	19.05mm	25.40mm



JOLLY EXPANSION JOINT FILLER IN AIRPORT RUNWAYS



JOLLY EXPANSION JOINT FILLER BETWEEN BEAMS & COLUMNS IN BUILDING



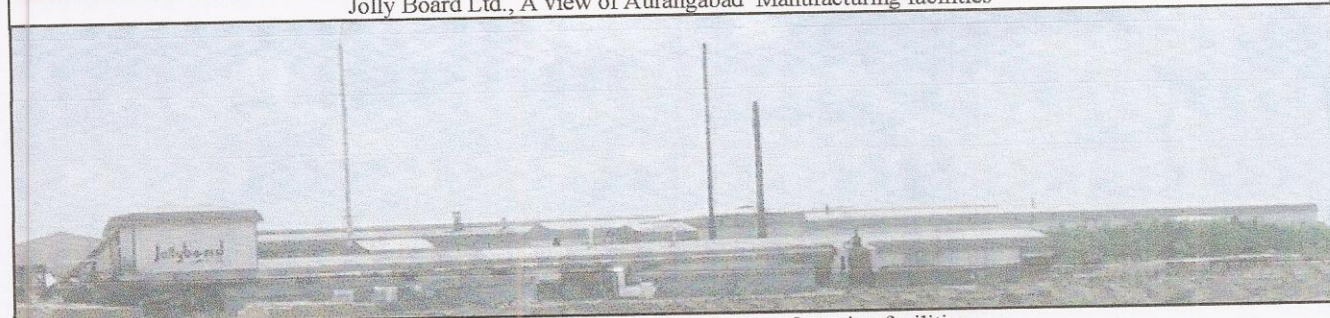
JOLLY BITULEX

**Technical Test Report of Jolly Bitulex Expansion Joint Filler**

Test as per ASTM D1751	19 mm thick 35% Bitumen content	18 mm thick 20% Bitumen content	ASTM D1751 Limits
1. Dimension Thickness (mm)	19.1	18.3 mm	Tolerance ±1.6
2. Compression			
a. Stress applied for compressing specimen to 50% of its thickness	2800-3200 KPa	2400-2700 KPa	689-5171 KPa
b. Loss in Weight after application of Stress	0.1-0.2 %	0.1-0.2 %	Max 3%
3. Extrusion (mm) After compressing to 50% of the specimen's thickness	2-3mm	3.2-4.5 mm	Max. 6.4mm
4. Recovery (%) 10 minutes after compressing to 50% of the specimen's thickness	86-87%	87-89 %	Min70%
5. Density (kg/m³)	330-350	310-325	Min.304
6. Water absorption (%)	8-9.5 %	9.5-11%	Max.20%
7. Asphalt content (%)	36-37%	21-23%	Min. 35%



Jolly Board Ltd., A view of Aurangabad Manufacturing facilities



Jolly Board Ltd., A view of Sangli Manufacturing facilities

