

UNIFLEX FB
BITUMINOUS FIBERBOARD

UNIFLEX FB™ BITUMINOUS FIBERBOARD

PRODUCT FEATURES

UNIFLEX FB™ BITUMINOUS FIBERBOARD is a compressible sheet manufactured from bitumen impregnated wood fibers to resist water absorption. It is a non-extruding, compressible joint filler to form and fill expansion and isolation joints for in-situ and pre-cast concrete construction. It is supplied in a range of standard thicknesses to suit most common applications.

UNIFLEX FB™ BITUMINOUS FIBERBOARD can also be used as a protection board to protect waterproofing systems against mechanical damage.

UNIFLEX FB™ BITUMINOUS FIBERBOARD characterized by high compressibility with minimal extrusion and excellent recovery. It is easy to handle, remains stable under temperature changes and severe environmental conditions, and the rough surface texture promotes good bonding with concrete.

ADVANTAGES

- Rot-Proof
- Excellent Recovery
- Easy to Cut and Handle
- Will Not Extrude Under Compression
- Easy To Install
- Non Absorbent

FIELD OF APPLICATION

| | |
|--------------------------------------|--------------------------------------|
| Brick Works & Block Works | Masonry |
| Motorways, Runways, Taxiways, Aprons | Pedestrian Areas, Piers & Kerbs |
| Concrete Roads & Pavements | Basements, Tunnels & Subways |
| Bridges & Viaducts | Abutments & Parapet Walls |
| Dams & Reservoirs | Water & Waste Water Treatment Plants |

TECHNICAL PROPERTIES

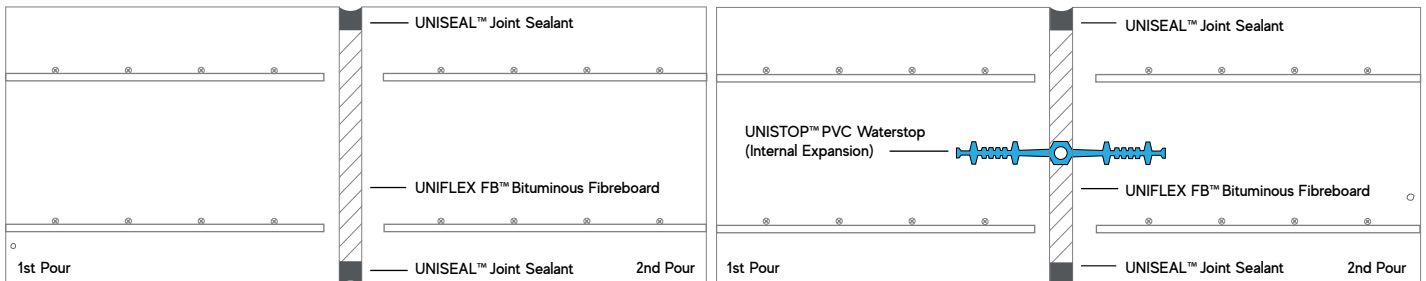
| PROPERTY | UNIT | TEST METHOD | RESULT |
|----------------------------|---------------------|--------------|----------|
| DENSITY | kg/m ³ | ASTM D792 | 85 ± 10% |
| TENSILE STRENGTH | kgf/cm ² | ASTM D412 | 13 |
| ELONGATION | % | ASTM D412 | < 130 |
| TENSILE STRENGTH @ BREAK | kgf/cm ² | ASTM D412 | 13 |
| TENSILE ELONGATION @ BREAK | % | ASTM D412 | < 130 |
| HARDNESS | SHORE A | JIS K7312-96 | 35 +/- 3 |
| COMPRESSION DEFLECTION | kgf | ASTM D1056 | 3.3 |

(All values given are subject to 5-10% tolerance / Values related to 90kg/m³ & above densities / Compliance with ASTM/ BS standard)

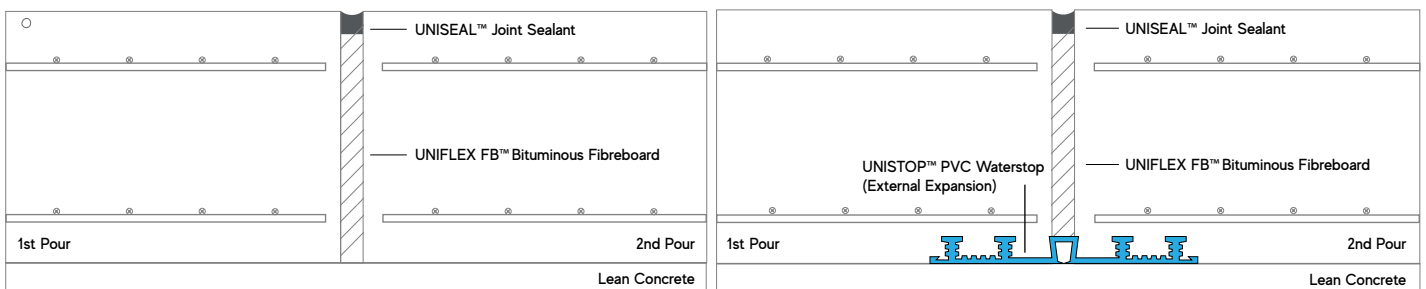
PHYSICAL PROPERTIES

| | |
|---|---|
| MATERIAL | Bituminous Fibre Board |
| NOMINAL PANEL THICKNESS (ASTM D1751, Tolerance +-1.6mm)(mm) | - 10 - 12.5 - 25 |
| PANEL SIZE (M) | 1.22 x 2.14 |
| DESITY (kg/cm ³) | 315 +- |
| SOLID CONTENT (%) | 100% |
| COMPRESSION (To 50% of the specimen's original thickness, ASTM D1751) | 2,400 - 2,700 ≤ 0.2 4 ± 0.5 > 75 |
| · Stress applied (KPa) · Loss in weight after application of stress (%) · Extrusion (mm) · Recovery 10 minutes after stress is removed (%) | |
| WATER ABSORPTION (ASTM D1751) | < 11% |
| COMPLIANCE TO STANDARDS | US Federal Specification HH-F-341a : Type 1 Class B American Association of State Highway Officials Standard Specification M 153-154 PSA Standard Specification Clauses for Airfield Pavement Works DTp Specification for Highway Works Dec 1991 series 1000 Clause 1015 |

TYPICAL DRAWING & PROFILES



STANDARD DETAILS OF WALL / SUSPENDED SLAB APPLICATIONS



STANDARD DETAILS OF SLAB ON GROUND APPLICATIONS

INSTALLATION PROCEDURES

▶ *PREPARATION*

To form an expansion joints in new concrete, brickwork, blockwork, and masonry, firstly construct one side of the joint prior to fixing UNIFLEX FB™ BITUMINOUS FIBERBOARD.

▶ *NEW EXPANSION JOINTS*

A joint sealing slot can be formed by placing a removable timber former on top of the UNIFLEX FB™ BITUMINOUS FIBERBOARD. Alternatively, UNIFLEX FB™ BITUMINOUS FIBERBOARD can be installed to the full depth of the slab and cut back to the required depth subsequently using a power brush machine. This latter method is generally used for housing estate roads which cannot be cleaned and sealed until all building has finished.

▶ *AS PROTECTION ON BOARD*

UNIFLEX FB™ BITUMINOUS FIBERBOARD should be fixed to the waterproofing coating or membrane using a suitable adhesive.

▶ *JOINT SEALING*

UNIFLEX FB™ BITUMINOUS FIBERBOARD should be tamped down to ensure that it fills the joint completely and provides continuous support for the joint sealant.

HEALTH AND SAFETY

There are no health hazards associated with Fiberboard in normal use. As with all organic materials there is a very slight risk of spontaneous combustion if stored long term in wet conditions. Store under cover, in the dry.

For further information on refer to the Material Safety Data sheet.



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