

## Technical Data Sheet

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### GENERAL DESCRIPTION

*ISOTECHPROOF* is a tough semi-flexible, rot-proof, durable pre-molded bitumen based board suitable for a variety of application in below or above ground waterproofing as well as roofing, parking, bridge decks, wet areas, planters, pools, fountains and civil works.

### SPECIAL FEATURES

- Positive barrier to water and dampness with very low water absorption.
- Noninvasive. Compatible with almost every waterproofing membrane and coating like: Bituminous, EPDM, TPO, PVC, Polyurethane, Butyl rubber, Epoxy, Acrylic, Chlorinated Rubber, coal tar and many others.
- Withstands site abuse and impact from backfilling operations as well as effective protection against construction traffic, concreting and other topping work.
- Maintains shape stability at high temperatures and retains flexibility at low temperatures. It is tough, rot proof and non-bio degradable. It is unaffected by permanent Immersion in water.
- Resistant to salts, chlorides and other chemicals normally found in soils.
- Can be used as a recovery board in re-roofing as a fast, light weight alternative to screed and eliminating the need to remove the old roofing regardless of its type.
- It comes in a variety of thickness from 2.5mm to 6.5mm depending on specification and client requirement. The technical data on the reverse side is relevant to 3.0mm and 6.0mm. A special technical data sheet will be provided for any other thickness.
- Semi-flexible can be bent to normal contours without cracking while rigid enough to hold as a board on vertical surfaces.
- The top surface is covered with either fine sand (SAND) or a thin Polyethylene film (PBS) The bottom surface is covered with a thin easy torched Poly-Ethylene film.
- High puncture and impact resistance. Pass the chisel test.

### COMPOSITION

*ISOTECHPROOF* is manufactured as a semi-flexible, semi-rigid board made of a tough bituminous mix with fillers and modifiers, held under pressure between two laminating fibrous and non-woven carriers, providing the board with a superior puncture resistance and low deflection coefficient.

### PACKING

*ISOTECHPROOF* is manufactured as 1x2m board, stacked on a double pallet, fitting perfectly along the width of a 20ft container or trailer bed. The number of sheets per pallet varies according to thickness. The boards must be kept away from direct sunlight under a shed, one pallet high.

### TOOLS AND EQUIPMENT

*ISOTECHPROOF* is easily placed by hand. Only a gas torch maybe required whenever fixing by heat is preferred.

### METHOD OF APPLICATION

*ISOTECHPROOF* should be installed in butt joints continuously over the waterproofing material staggering the joints whenever possible. Cut the *ISOTECHPROOF* with roofer's knife as required to obtain complete coverage and neat overall finish.

On horizontal surfaces, *ISOTECHPROOF* can be placed loose directly on the waterproofing membrane or coating while spot bonding with *Isotech/Ast* or neoprene adhesive on the edges to avoid slippage.

On vertical surfaces the *ISOTECHPROOF* can be fixed in two recommended ways:

Cold adhesion by the means of spot bonding with *Isotech/Ast* or neoprene adhesive. Heated application by slightly burning the underside of the board away from the surface and quickly pressing it.

A temporary support might be necessary until the backfilling starts. During backfilling care must be taken to ensure the board is not dragged down.

### TECHNICAL DATA

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ISOTECHPROOF products are tested at random intervals by independent laboratories to international standards and the results of these tests are available on request. In addition, each batch manufactured is subject to strict quality control procedures to ensure it meets appropriate and applicable standards and/or norms.

### 3.0 mm

	Procedure	Units	Tolerance	Value
<b>ASTM</b>				
Length		m	<-1%	2
Width		m	<-1%	1
Thickness	ASTM D5147	mm	-0.2mm	3.0
Water Absorption (n/a slate)	ASTM D5147	%	mlv	<0.55
Puncture resistance	ASTM D514	N; mm	mlv	1200; 32
<b>CE</b>				
Visible defects	EN 1850-1	N°/m <sup>2</sup>	0	0
Lengths	EN 1848-1	m	<-1%	2
Width	EN 1848-1	m	<-1%	1
Mass per unit area	EN 1849-1	kg/m <sup>2</sup>	+/- 10%	3.85
Thickness	EN 1849-1	mm	-0.2mm	3.0
Resistance to static loading (method A)	EN 12730	kg	min	25
Resistance to impact	EN 12691	mm	mlv	>700
Reaction to fire	EN 13501-1		Euroclass	F

### 6.0 mm

	Procedure	Units	Tolerance	Value
<b>ASTM</b>				
Length		m	<-1%	2
Width		m	<-1%	1
Thickness	ASTM D5147	mm	-0.2mm	6.0
Water Absorption (n/a slate)	ASTM D5147	%	mlv	<0.75
Puncture resistance	ASTM D514	N; mm	mlv	1200; 25
<b>CE</b>				
Visible defects	EN 1850-1	N°/m <sup>2</sup>	0	0
Length	EN 1848-1	m	<-1%	2
Width	EN 1848-1	m	<-1%	1
Mass per unit area	EN 1849-1	kg/m <sup>2</sup>	+/- 10%	7.65
Thickness	EN 1849-1	mm	-0.2mm	6.0
Resistance to static loading (method A)	EN 12730	kg	min	25
Resistance to impact	EN 12691	mm	mlv	>700
Reaction to fire	EN 13501-1		Euroclass	F