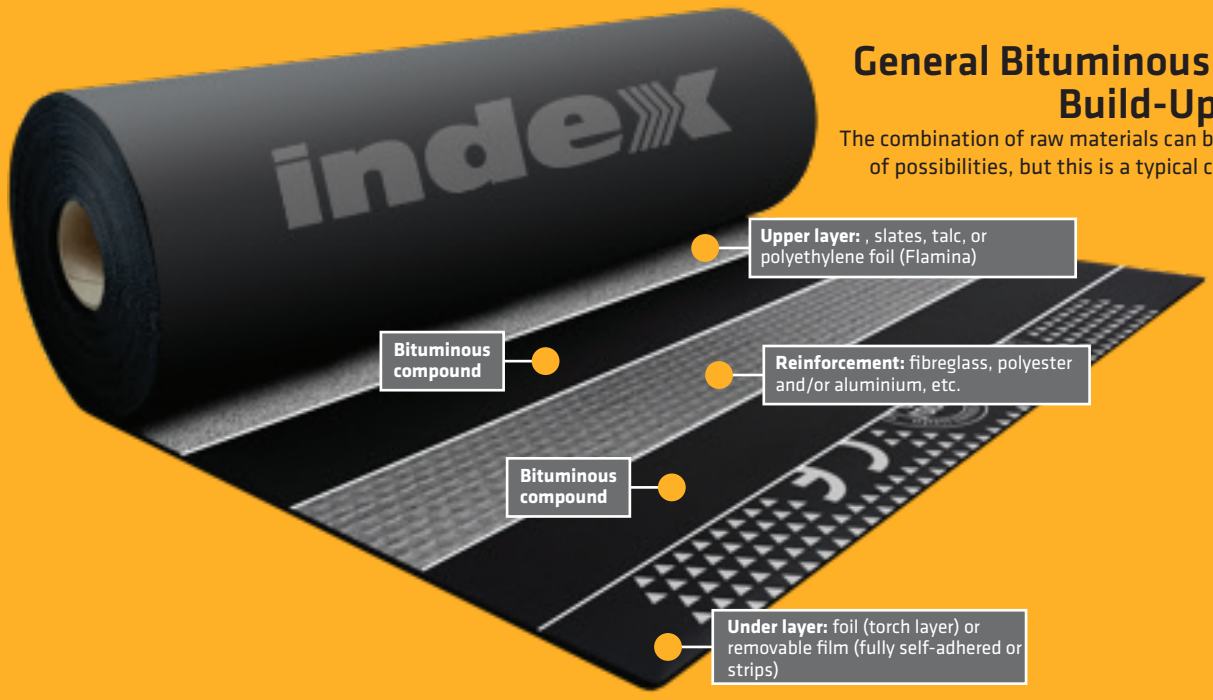

# THE GLOBAL CHAMPION OF BITUMINOUS MEMBRANES FOR ROOFING AND WATERPROOFING APPLICATIONS

Index Bituminous Membranes are widely used in construction to waterproof roofs, green roofs, terraces, basements, below-ground structures, bridges and other structures. Index's Bituminous Membranes are applied by heat fusion and provide a fully-bonded watertight surface.




## General Bituminous Membrane Build-Up

The combination of raw materials can be built up in thousands of possibilities, but this is a typical composition example

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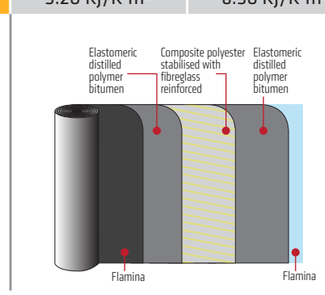
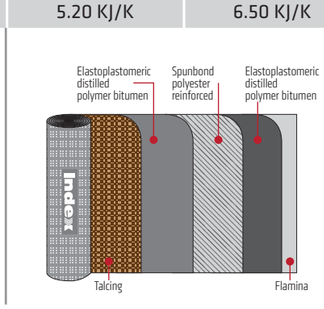
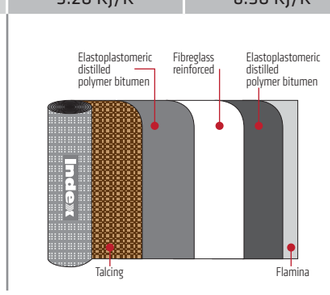
# INDEX COMPARISON TABLE

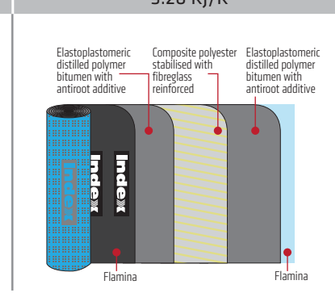
| | HELASTA | | TESTUDO SPUNBOND 20 | | FIDIA P* | | DEFEND ANTIROOT 10 | TOPGUM BIARMATO* | | VIS P* | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Uses | Car park, roofings with under cope in reinforced concrete, waterworks, tunnels, underground passages | | Bridges & car parks, sloping, flat, vertical and curved surfaces, reinforced & prefabricated concrete, masonry cement, metal, timber decks & terraces. Roofing with/ without thermal insulation & renovation work | | Sloping, flat, vertical and curved surfaces, site-cast or prefabricated concrete substrates, base-ment tanks, foundations | | For roof gardens and planter boxes, sunken works, gravel covered roofs | Sloping, flat, vertical and curved surfaces, reinforced & prefabricated concrete, masonry cement, metal, timber decks & terraces | | Sloping, flat, vertical and curved surfaces, site-cast or prefabricated concrete substrates, base-ment tanks, foundations | |
| Reinforcement | Non-woven composite polyester stabilised with fibreglass | | Non-woven Spunbond Polyester | | Polyester | | Non-woven Spunbond polyester fabric stabilised with fibreglass | Non-woven composite polyester stabilised with fibreglass | | Non-woven composite polyester stabilised with fibreglass | |
| Thickness | 4 mm | 5 mm | 4 mm | 5 mm | 4 mm | 5 mm | 4 mm | 3 mm | 4 mm | 3 mm | 4 mm |
| Roll size | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m | 1x10 m |
| Watertightness | 60 kPa | | 60 kPa | | 60 kPa | | 60 kPa | 60 kPa | | 60 kPa | |
| Peel resistance | | | 50 N/50 mm | | | | | | | | |
| Shear resistance L/T | 800/600 N/50 mm | | 750/600 N/50 mm | | 350/300 N/50 mm | | 350/250 N/50 mm | | | 350/250 N/50 mm | |
| Maximum tensile force L/T • after ageing | 850/700 N/50 mm | | 850/700 N/50 mm | | 450/400 N/50 mm | | 400/300 N 50 mm | 450/400 N/50 mm | | 400/300 N/50 mm | |
| Elongation • after ageing | 50/50% | | 50/50% | | 40/40% | | 40/40% | 50/50% | | 35/40% | |
| Resistance to impact | 1 250 mm | | 1 250 mm | | 1 000 mm | | 1 250 mm | | | 700 mm | |
| Resistance to static loading | 20 kg | | 20 kg 20 kg | | 10 kg | | 15 kg 20 kg | | | 10 kg | |
| Resistance to tearing (nail shank) L/T | 200/200 N | | 200/200 N | | 150/150 N | | | 170/180 N | | 140/140 N | |
| Dimensional stability L/T | -0.30/+0.30% | | -0.5/-0.3% | | -0.25/+0.10% | | -0.30/+0.10% | | | | |
| Flexibility to low temp. • after ageing | -25°C -25°C | | -15°C -5°C | | -10°C | | -10°C | 0°C | | 0°C | |
| Flow resist. at high temp. • after ageing | 100°C 90°C | | 120°C 110°C | | 110°C 100°C | | 120°C | 110°C 100°C | | 110°C 100°C | |
| UV Ageing | | | Test passed | | Test passed | | | Test passed | | | |
| Resistance to root | | | | | | | Test passed | | | | |
| Reaction to fire Euroclass | E | | E | | E | | E | E | | E | |
| External fire performance | F roof | | F roof | | F roof | | F roof | F roof | | F roof | |
| THERMAL SPECIFICATIONS | | | | | | | | | | | |
| Thermal conductivity | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK | 0.2 W/mK |
| Heat capacity | 5.20 KJ/K·m² | 6.50 KJ/K·m² | 5.20 KJ/K | 6.50 KJ/K | 5.20 KJ/K | 6.50 KJ/K | 5.20 KJ/K | 3.90 KJ/K | 5.20 KJ/K | 3.90 KJ/K | 5.20 KJ/K |

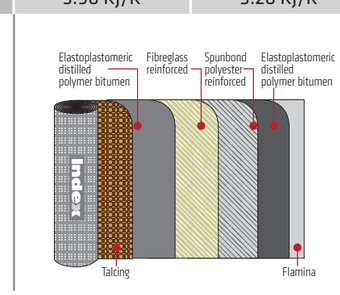
*** Also available in Mineral**

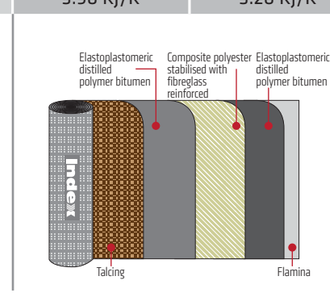


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Once applied, Sika's bituminous membranes are a thin layer of watertight material fully-bonded to the surface. It is a flexible system, able to maintain its waterproof capacity without causing cracks.

**Main Characteristics**

- Resistant to the most extreme weather conditions
- Ease of maintenance
- Excellent mechanical properties
- High resistance to mechanical damage and punctures

## TYPICAL APPLICATION FIELDS

### For Bitumen Roofs:

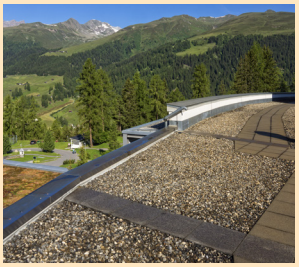

Flat Roofs


Pitched Roofs


Terraces


Green Roofs


Roof Renovation


Gravel Ballasted Roofs

### For Bitumen Waterproofing:


Basements


Podiums


Below-Grade Structures


Tank Lining


Bridges


Culverts

Call us for more info: **031 792 6500**
**www.sika.co.za**

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