

TPO-20 FM Single Ply Roofing System

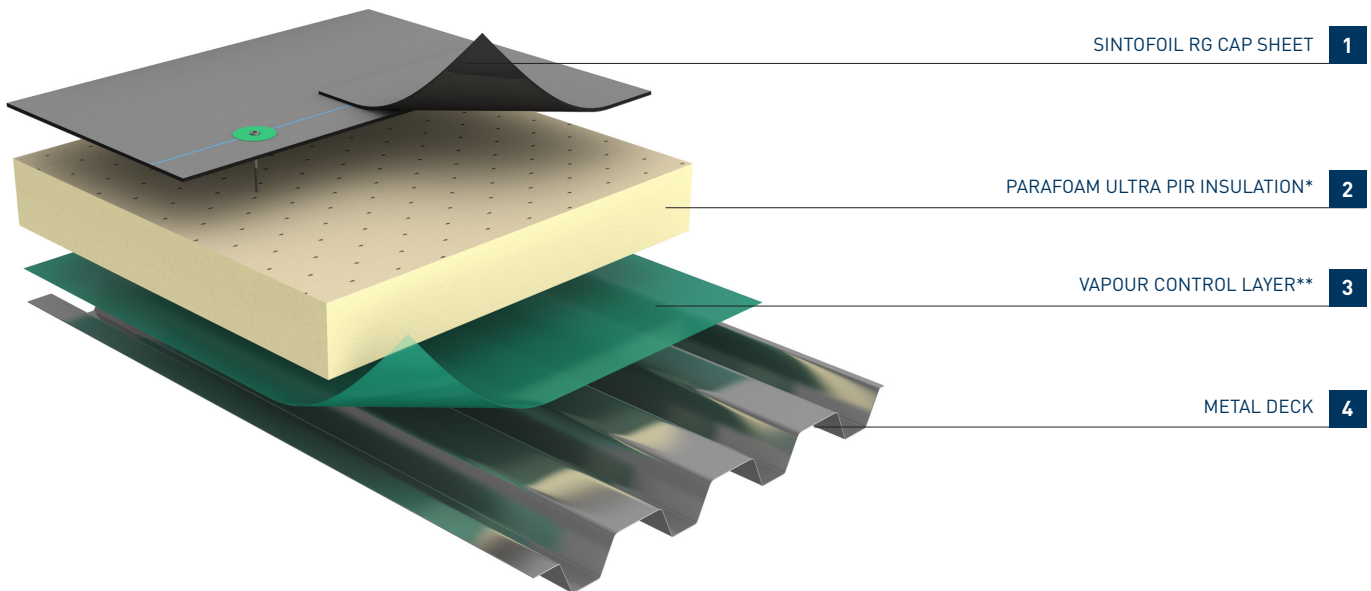
(SDsB6-0312)
 Issue No: 1-Mar12

TPO-20 FM

The TPO-20 FM system is a premium quality, mechanically fixed, single ply, high performance UV resistant elastomerised TPO membrane with a glass fibre reinforcing mat. It is a warm roof system for flat or sloping roof constructions. TPO-20 FM Sintofoil RG (reinforced glass) cap sheet has a light grey smooth surface and carries an independently insured guarantee for 20 years for materials and workmanship. Note: Sintofoil ST membrane is required at all detail locations.

When to Specify

This system is predominantly for new build construction, however, can be utilised for refurbishment projects. Suitable for profiled metal decks (can also be considered for timber boarding or plywood, subject to fixing pull-out tests).



Example installation depth shown above is typical.

TPO-20 FM System			
Layer	Thickness	Weight	
1	Sintofoil RG	1.2mm	1.010kg/m ²
2	Parafoam Ultra*	50 – 140mm (10mm increments)	4.48kg/m ² (140mm)
3	Vapour Control Layer**	250 µm thick	0.23kg/ m ²
Total System weight:		(based on 140mm insulation thickness)	5.81kg/m ²

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Durability

- Robust yet flexible roof covering, 1.2mm thick, synthetic waterproofing membrane, produced by co-extruding a UV resistant elastomerised TPO thermoplastic polyolefin and flexible polypropylene alloy.
- Glass fibre reinforcing mat that improves the dimensional stability.
- The TPO granules include ethylene propylene rubber (EPR), polypropylene (PP) and specific hindered amines (HALS) UV stabilisers. All these materials are inert and do not affect the environment.



Resistance

- Sintofoil membranes exceed all UEAtc criteria.
- Sintofoil membranes are fully root resistant with FLL accreditation and are resistant to algae and microorganisms.
- Compatible with bituminous based products.
- Sintofoil membranes have F.AA fire rating and are Factory Mutual approved.



Life Span

- Long term solution – life expectancy in excess of 30 years.
- BBA durability of 30 years.



Proven

- Rapid installation, loose laid, with mechanical fixings along the laps which are electrically hot air welded.
- Sintofoil membranes are covered by a BBA Agrément Certification.
- The manufacturing specification of Sintofoil allows for up to 10% of standard membrane to be directly recycled to produce new membrane. Technology is currently being developed to recycle reinforced and fleece-backed membranes. In any event, all Sintofoil membranes can be recycled into by-products or burned for production of high energy.



Guarantee

- The system carries a 20 year independently insured guarantee for both materials and workmanship.
- Can only be installed by approved contractors to ensure product quality is maintained.
- An environmentally green and user friendly product.
- Full range of accessories and supporting products, all included under a single comprehensive guarantee, includes: moulded details, sheet laminated metal, rooflights, outlets, vents, lead-free flashings, edge trims etc.
- All Langley membranes have been developed in accordance with the European Union of Agrément (UEAtc) and are manufactured and tested in accordance with UEAtc Moat special directives (Methods of Assessment and Testing).



Holistic Package

- For users peace of mind, this system is supported by the full Langley package that includes: New build technical and design advice, surveys, condition reports and proposals, specifications, site monitoring and reporting, guarantee inspections, all at no additional cost.

The above information is issued in good faith and without warranty and is intended as a guide only. The information comprises typical data and does not constitute a specification.