



# TPO

Flexible Roofing Membrane



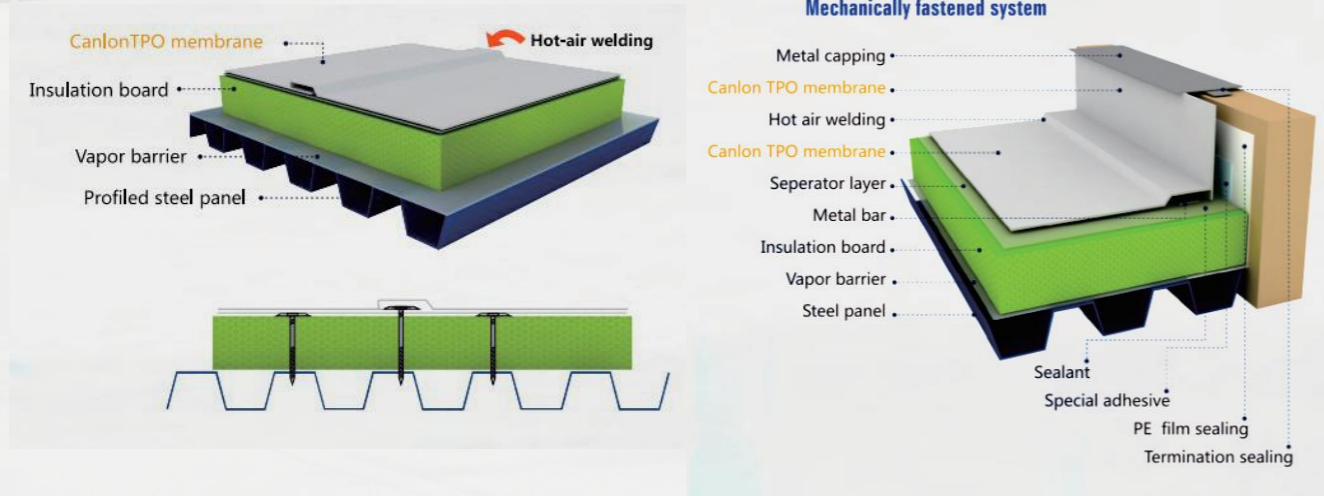
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# TEST RESULTS

## CANLON TPO ROOFING MEMBRANE

CANLON TPO roofing membrane combines both polypropylene(plastic) and ethylene-propylene (rubber)using state-of-the-art extruding manufacturing technology, which exhibits excellent versatile physical properties of plastic and rubber. Featured with pliable and weldable properties, CANLON TPO delivers its unique high elasticity under normal condition and its superior plasticity under extreme temperature. Therefore its excellent physical and chemical parameters(high tensile strength and elongation) forges its unbeatable quality.Being commercial roofing system that is reliable, cost effective,environmentally friendly and easy to install, CANLON TPO is mostly suited for single ply light steel roofs.



PRODUCT	APPLICATION	THICKNESS	COLOUR	AVAILABLE SIZES
Fleece Backed FB	Fully Adhered	1.2/1.5/2.0mm	White	20m x 2.0m(with single selvedge) 20m x 2.0m(with double selvedge)
Fiber Reinforced FR	Mechanically Fixed	1.2/1.5//2.0mm	White	20m x 2.0m
Smooth SM	Fully Adhered	1.2/1.5/2.0mm	White	20m x 2.0m



## INSTALLATION

**Mechanically Fastened:(Hot-air welding ensure secure and seamless water barrier)**  
**Brief introduction**

Mechanically attached systems are best choice when weight is a consideration, when the system is to be installed during cooler weather or when a roof is being re-covered, steel roof is an optimal choice for mechanically fastened systems, especially when installing a new roofing system over a structural standing seam metal building, as the mechanical attachment is light weight and less likely to overload the highly engineered weight limits of the building. Wood and cementitious wood fiber are also very good decks for mechanically fastened systems. Special fastening accessories or machines are indispensable(such as automatic welding machines, hand-held guns and rollers are)to secure the whole installation, the overlap joints will be welded by automatic hot-air machines so as to enhance the wind force loading capacity.

DECLARATION OF ESSENTIAL CHARACTERISTICS				
Essential Characteristics	Harmonsied Technical Specification	Performance		
		CANLON FB	CANLON FR	CANLON SM
Watertightness	EN 1928:2000	Passed	Passed	Passed
Mass per unit area	EN 1849-2:2009	1480 g/m2	1392g/m2	1368 g/m2
Reaction to Fire	EN 13501-1+A1:2009	Class E	Class E	Class E
Peel resistance of Joints: Maximum Tensile Strength/Longitudinal	EN 12316-2:2013	Av 208 N	Av 184 N	Av 222 N
Peel resistance of Joints: Maximum Tensile Strength/Transverse	EN 12316-2:2013	Av 224 N	Av 287 N	Av 185 N
Resistance to Static Loading	EN 12730:2015	20kg	20kg	20kg
Tensile Strength/Longitudinal	EN 12311-2:2013	Av 802N/50mm	Av 1923N/50mm	Av 1082 N/50mm
Elongation at rupture/Longitudinal	EN 12311-2:2013	Av 97%	Av 58%	Av 1179%
Tensile Strength/Transverse	EN 12311-2:2013	Av 621N/50mm	Av 2020N/50mm	Av 597N/50mm
Elongation at Rupture/Transverse	EN 12311-2:2013	Av 295%	Av 62%	Av 55%
Resistance to Tearing/Longitudinal	EN 12310-2:2018	Av 369 N	Av 571 N	Av276 N
Resistance to Tearing/Transverse	EN 12310-2:2018	Av 266 N	Av 637 N	Av 215 N
Foldability at Low Temperature	EN 495-5:2013	-40°C	-40°C	-40°C
Resistance to Impact	EN 12691:2018	1750mm	1000mm	800mm
UV Exposure	EN 1297:2004	Without cracks or broken holes	Without cracks or broken holes	Without cracks or broken holes

