



Triton TWS-EX100GM

Triton TWS-EX100GM is a tough, durable self-adhesive membrane specially developed to protect against the ingress of Methane and Radon gases and other ground gases and contaminants. This is achieved by using aluminium as the primary barrier and reinforcing and protecting this by laminating a tough, biaxially oriented HDPE film to one side and a robust bitumen rubber compound to the other. To facilitate easier lap seals, the membrane has a selvedge of bitumen rubber.

Triton TWS-EX100GM is used to provide an effective barrier to water, water vapour, Radon, Methane and Carbon Dioxide in all forms of construction. When installed and applied correctly it will provide an effective barrier to ground gases in accordance with BS 8485: 2015 and provide Type A barrier protection in accordance with BS 8102: 2009 - Table 1 and provides levels of protection for grades 1, 2 and 3 in accordance with BS 8102: 2009 – Table 2.

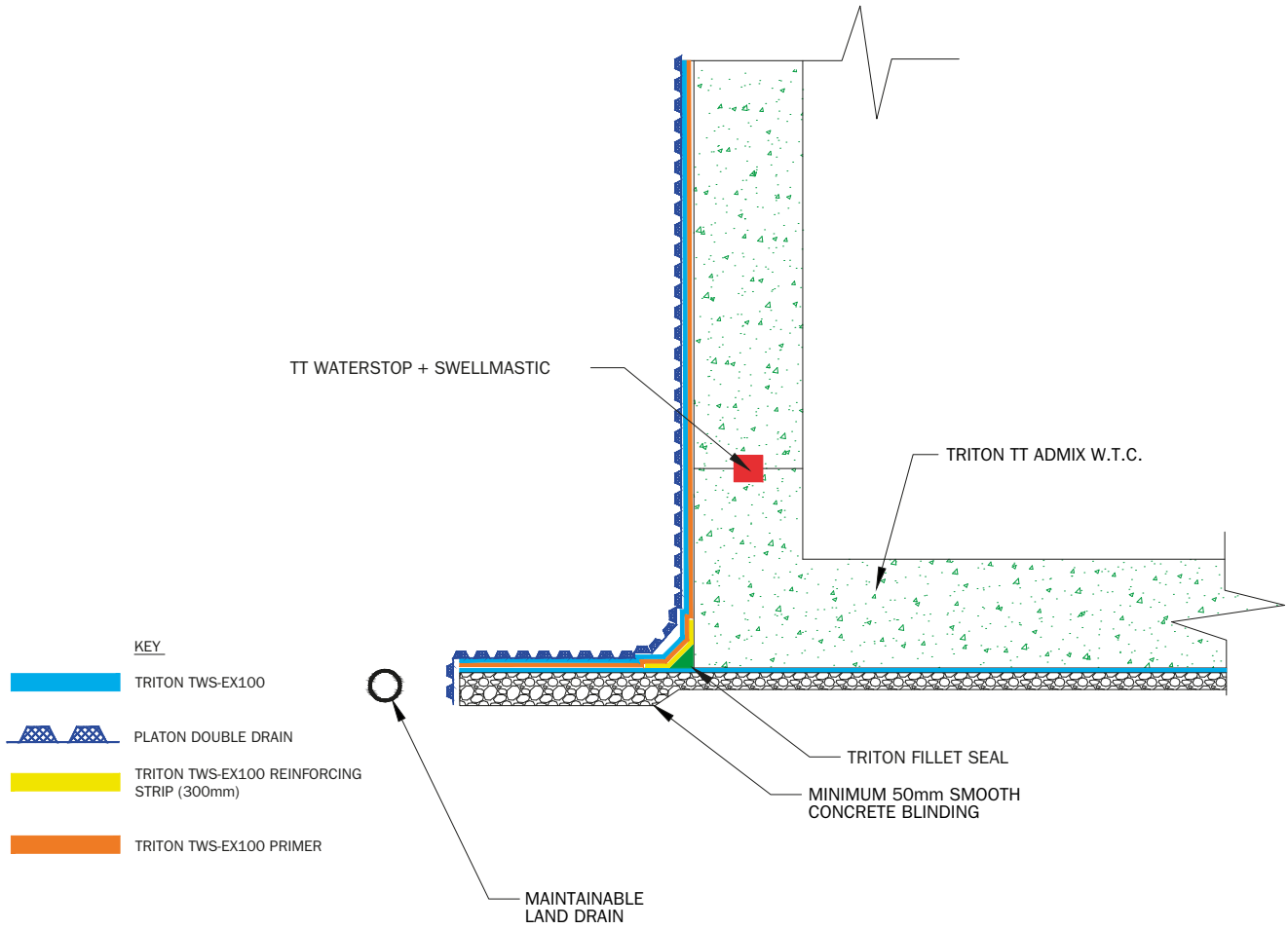
Under normal conditions of use TWS-EX100GM will provide an effective barrier to water, water vapour, Radon, Methane and Carbon Dioxide for the life of the building.

Key features

- Methane gas permeability less than 0.03ml/m²/24 hrs
- Impervious to Radon gas
- High puncture resistant film
- Highly efficient waterproof membrane
- Multi-layer laminate to optimize long term protection
- Adhesive selvedge to aid effective joint sealing
- Self-adhesive
- Cold applied
- Factory controlled thickness

Specification: J40 – Flexible sheet tanking / damp proofing in accordance with NBS Clause 190.

TYPICAL TWS-EX100 EXTERNAL WATER PROOFING DETAIL



For installation advice please refer to application guidelines available separately from Triton Systems

Technical data

Property	Test method	Units	Data
Dimensions:			
Backing thickness	–	mm	0.1
Backing type	–	–	Aluminium Polythene laminate
Adhesive thickness	–	mm	0.90
Total thickness	–	mm	1.00
Width	–	mm	1050
Length	–	m	19.05
Area	–	m ²	30
Weight	–	kg/m ²	1.1
Carton weight	–	kg	33
Mechanical properties:			
Membrane strength	ASTM D1000	N/mm	3.0
Elongation	ASTM D1000	%	40
Puncture resistance	ASTM E154	N	250
Adhesion (180° peel)	ASTM D1000	N/mm	2.0
Functional data:			
Water vapour transmission	ASTM E96	g/m ² /24h	<0.1
Methane gas permeability	–	ml/m ² /24h	<0.03
Radon diffusion	–	m ² /s	5.0 x 10 ⁻¹⁴
Dimensional stability	MOAT 27 5.1.6 80°C	%	Longitudinal: 0.0 Lateral: 0.0

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