



WATERPROOFING

APPLICATIONS

ROOFING

DUO High Tech

4 T/F C180 FC

TECHNICAL DATA SHEET APTDS-E-166-01

DESCRIPTION

DuO High Tech 4 T/F C180 FC is flexible waterproofing membrane with a dual reinforcement and a double polymeric bitumen coating. The upper coating is made of TPO-modified bitumen; the undercoating consists of SBS-modified bitumen. The composite reinforcement of polyester & glass scrim (180 g/m²) combine to provide strength and stability. The upper side is finished with a mixture of talcum and sand and the underside is covered with a sacrificial film.

FEATURES

- Weatherproof and UV resistance
- High mechanical resistance with TPO-modified bitumen
- High elasticity and strong adhesion with SBS-modified bitumen
- 8cm selvedge of SBS-modified bitumen to ensure SBS-SBS seal on joints
- Fire resistant (class Broof(t1), (t2) and (t4) following CEN/TS 1187)

AREA OF USE

ROOFING

- Cap sheet for single or multi-layer exposed roof systems: torched application

STORAGE AND PACKAGING

	DUO HIGH TECH 4 T/F C180 FC
Thickness (mm)	4
Length (m)	10
Width (m)	1
Weight/roll (kg)	40
Rolls/pallet	20

Rolls must be stored vertically.





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PROPERTIES

	DUO HIGH TECH 4 T/F C180 FC	Test method	
Thickness (mm)	4 (± 5 %)	EN 1849-1	
Length x width (mxm)	8 x 1	EN 1848-2	
Visual defects	Pass	EN 1850-1	
Straightness	Pass	EN 1848-1	
External fire performance (1) (2) (3)	Broof (t1,t2,t4)	CEN/TS 1187	
Fire resistance	F	EN 13501-1	
Tensile strength (N/5cm)	880 / 880 (± 20 %)	EN 12311-1	
Elongation to break (%)	50 / 50 (± 15 abs)	EN 12311-1	
Resistance to root penetration	NA	EN 13948	
Water vapour properties (μ)	NA	EN 13707	
Resistance to static loading (kg)	L25	EN 12730	
Resistance to impact (mm)	I10	EN 12691	
Tear resistance (N)	NA / NA (± 50)	EN 12310-1	
Dimensional stability (%)	0,3	EN 1107-1	
Flexibility at low temperature (°C)	• initial	-15/-20	EN 1109
	• after ageing	-5/-5	EN 1296
	• after UV	-5/-5	EN 1927
Flow resistance at elevated temperature (°C)	• initial	110	EN 1110
	• after ageing	100	EN 1296
	• after UV	100	EN 1927
Joint strength: peel resistance (N/5cm)	225 (± 50)	EN 12316-1	
Joint strength: shear resistance (N/5cm)	750 (± 250)	EN 12317-1	
Watertightness	Pass	EN 1928	
Watertightness after stretching at low temperature (%)	NA	EN 13897	
Adhesion of granules (%)	NA	EN 12039	

