

# TECHNICAL DATASHEET

## TERRAGUM E 180 4 F/F

Technical ref  
AXTER DATASHEET

### PRESENTATION

TERRAGUM E 180 4 F/F is a stabilised polyester reinforced APP bituminous waterproofing membrane.

### USAGE

Capsheet in roof waterproofing system

### LAY OUT

To torch out

### STORAGE

Rolls to be stored upright, without stacking and under cover

### COMPOSITION (for information)

Reinforcement (g/m <sup>2</sup> ) :	Polyester	180
Binder (g/m <sup>2</sup> ) :	APP	4200
Finishing surface (g/m <sup>2</sup> ) :	Thermofusible film	10
Finishing underside (g/m <sup>2</sup> ) :	Thermofusible film	10

### CHARACTERISTICS

		NORMS	UNITS	VALUES	Tolerance	
					Min	Max
Dimensions	Length	EN 1848-1	m	10	0%	
	Width		m	1	-1%	
	Straightness		-	Pass		
Thickness		EN 1849-1	mm	4.0	3.80	4.20
Visual defects	Before artificial ageing	EN 1850-1	-	Without		
	After Artificial ageing according to EN 1297		-	Without		
Adhesion of granules		EN 12039	%	NR	-	-
Resistance to tearing	longitudinal	EN 12310-1	N	NR	-	-
	transverse			NR	-	-
Tensile properties : maximal tensile strength	longitudinal	EN 12311-1	N/50 mm	1000	680	1300
	transverse			750	560	900
Tensile properties : maximal elongation	longitudinal	EN 12311-1	%	45	35	60
	transverse			45	35	60
Peel resistance	Maximal strength	EN 12316-1	N/50mm	NR	-	-
				transverse	NR	-
	Average strength			NR	-	-
				transverse	NR	-
Shear resistance	Maximal strength	EN 12317-1	N/50mm	NR	-	-
				transverse	NR	-
Flexibility at low temperature (pliability)	Surface	EN 1109	°C	-5	≤	
	Underside			-5	≤	
Flow resistance at elevated temperature	Before artificial ageing	EN 1110	°C	120	≥	
	After Artificial ageing according to EN 1296			90	≥	
Resistance to impact		EN 12691	mm	400	≤	
Resistance to static loading		EN 12730 (A)	kg	20	≥	
Dimensional stability		EN 1107-1	%	0.3	≤	
Form stability under cyclic temperature change		EN 1108	mm	NR		
Water vapour properties	Before artificial ageing	EN 1931		μ=20000		
	After Artificial ageing according to EN 1296			-	NR	
Watertightness	Before artificial ageing	EN 1928		Waterproof	under 10 kPa	
	After Artificial ageing according to EN 1296			-		
Watertightness after stretching at low temperature		EN 13897	%	NR		
Reaction to fire		EN 13501-1	-	F		
Resistance to root penetration		EN 13948	-	NR		
Dangerous substances according to database "Dangerous substances" : <a href="http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm">http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm</a>		-	-	None		

NR=not relevant

The manufacturer reserves the right to modify, at any time, the characteristics of its products.