

DERMABIT 4170 GARDEN PBS

Dermabit 4170 Garden is an APP type modified bituminous membrane reinforced with 180gsm Polyester specially treated with root resistant properties according to EN 13948. The special chemical treatment will not allow plant roots to pierce it and damage the waterproofing system. It is recommended for planter boxes, roof gardens and irrigated planted areas where water retention is essential.

Tests Performed – As per ASTM	Procedure	Units	Tolerance	Value
Length		m	<-1%	10
Width		m	<-1%	1
Thickness	ASTM D5147	mm	-0.2mm	4.00
Tensile Properties : Max Tensile Force-Long	ASTM D5147	N/50mm	-20%	850
-Trans	ASTM D5147	N/50mm	-20%	700
Tensile Properties : Elongation	ASTM D5147	%	-15	50
-Long	ASTM D5147	%	-15	55
-Trans	ASTM D5147	%	-15	55
Resistance to Tearing	ASTM D5147	N	min	550
-Long	ASTM D5147	N	min	355
-Trans	ASTM D5147	N	min	355
Lap Joint Strength	ASTM D5147	N/5cm	-20%	850
-Long	ASTM D5147	N/5cm	-20%	700
-Trans	ASTM D5147	N/5cm	-20%	700
Flexibility at Low Temperature	ASTM D5147	C	min	0
Dimensional Stability at 80C	ASTM D5147	%	mlv	-0.5
-Long	ASTM D5147	%	mlv	-0.5
-Trans	ASTM D5147	%	mlv	-0.5
Water Absorption (n/a slate)	ASTM D5147	%	mlv	<0.15
Root Resistance Contains 1% Preventol B2	DIN 4062	-	-	Conforms
Tests Performed – As per CE	Procedure	Units	Tolerance	Value
Visible Defects	EN 1850-1	No./m ²	0	0
Length	EN 1848-1	m	<-1%	10
Width	EN 1848-1	m	<-1%	1.00
Straightness	EN 1848-1	mm	<20mm	Pass
Mass Per Unit Area	EN 1849-1	kg/m ²	+/- 10%	4.70
Thickness	EN 1849-1	mm	-0.2mm	4.00
Water Tightness to Liquid Water	EN 1928-1	mlv	>400kPa	Pass
Tensile Properties : Max Tensile Force-Long	EN 12311-1	N/5cm	-20%	850
-Trans	EN 12311-1	N/5cm	-20%	700
Tensile Properties : Elongation	EN 12311-1	%	-15	50
-Long	EN 12311-1	%	-15	55
-Trans	EN 12311-1	%	-15	55
Resistance to Tearing (Nail Shank)	EN 12310-1	N	min	270
-Long	EN 12310-1	N	min	270
-Trans	EN 12310-1	N	min	270
Shear Resistance of Joint	EN 12317-1	N/5cm	-20%	850
-Long	EN 12317-1	N/5cm	-20%	700
-Trans	EN 12317-1	N/5cm	-20%	700
Resistance to Static Loading (method A)	EN 12730	kg	min	20
Resistance to Impact	EN 12691	mm	mlv	>700
Flexibility at Low Temperature	EN 1109	C	min	0
Dimensional Stability	EN1107-1	%	max	-0.5
Flow Resistance less than 2mm	EN1110	C	mlv	100
Reaction to Fire	EN 13501-1		Euroclass	F