

Technical Data Sheet - KERABIT 4000 BASE (K-MS 170/4000)



Kerabit Oy
Puistokatu 25-27, 08150 Lohja, Finland
18
002.CPR.55557

Kerabit
Tuotteet

Reinforced bitumen sheets for roof waterproofing EN 13707 Bitumen vapour control layers EN 13970

Bitumen damp proof sheets including basement tanking sheet EN 13969

Product description	
Use	Underlay sheet in built-up roofing (TL2 ⁵)
Application	Bonding onto the substrate by melting the undersurface of the membrane and the protective film with a blowtorch. Applying with mechanical fastening, when necessary
Reinforcement	Reinforced polyester (≥160 g/m ²)
Coating	SBS modified bitumen
Surfacing	Sand
Bottom surfacing	Thermofusible film and torch-on elastomer bitumen

Characteristic	Method	Unit	Nominal value	minimum	maximum
Length	EN 1848-1	m	10	-	-
Width	EN 1848-1	m	1	0,995	1,005
Straightness	EN 1848-1	mm / m	pass		20/10
Mass per unit area	EN 1849-1	g/m ²	4000	3800	-
Nominal thickness	EN 1849-1	mm	3,3	3,1	3,7
Visual defects	EN 1850-1	-	no defects		
Declaration of performance			002.CPR.15557		
AVCP- class			2+	3	
Certificate of factory production control			0809-CPR-1030	-	

Fire properties	Method	Classification	Fireclass				
Reaction to fire	EN ISO 11925-2	EN 13501-1	NPD				
External fire performance	ENV 1187 ²⁾	EN 13501-5	B _{ROOF} (t2)				

Characteristic	Method	Unit	EN 13707	EN 13969	EN 13970	minimum	maximum
Watertightness	EN 1928 B	kPa	pass	pass	pass	300	
Tensile strength	EN 12311-1						
- in longitudinal direction		N/ 50 mm	700	700	700	600	800
- in transverse direction		N/ 50 mm	500	500	500	400	600
Elongation	EN 12311-1	%	40	40	40	25	55
Nail shank tear resistance	EN 12310-1						
- in longitudinal direction		N	200	200	200	150	200
- in transverse direction	N	250	250	250	150	250	
Resistance to static loading	EN 12370 A	kg	15			10	
	EN 12370 B	kg		NPD			
Resistance to impact	EN 12691	mm	800	800	800	600	
Durability*							
* Water vapor transmission	EN 1296/1931	m			NPD		
* Watertightness	EN 1928 B	kPa		pass		60	
*Chemical resistance	EN 1847/1928			NPD			
	EN 1847/1931				NPD		
* Pliability: surface	EN 1296/1109	°C	-15			-10	
		bottom	°C	-10			0
* Flow resistance at elevated temperature : surface	EN 1296/1110	°C					
			80			80	100
bottom		80			80	95	
Pliability : surface	EN 1109	°C	-20	-20	-20	-20	-30
		bottom	-20	-20	-20	-10	-25
Water vapor resistance	EN 1931	m ² sPa/kg			2,3 x 10 ¹²	2 x 10 ¹²	
Flow resistance at elevated temperature	EN 1110	°C	80	80	80	80	
Dimensional Stability	EN 1107-2	%	0,3	0,3	0,3		0,6
Dangerous substances ^{3),4)}			No dangerous substances				

1) concerns only attestation of conformity system 2+, 2) see: www.kerabit.fi

3) No asbestos or coal tar constituents

4) In the absence of European harmonized test methods, verification and declaration on release/content has to be done taking into account national provisions in the place of use

5) Product class requirements for modified bitumen membranes by Finnish Roofing Association

NPD = no performance determined
*tested after ageing