

Technical Data Sheet - KERADECK 4200



Nordic Waterproofing Oy
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19
001.CPR.15611



Reinforced bitumen sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete EN 14695

Reinforced bitumen sheets for roof waterproofing EN 13707

Product description						
Use	Sheet for bridges , cap sheet in built-up roofing					
Application	Bonding onto the substrate by pour and roll applying. Mechanical fastening, when necessary					
Reinforcement	Reinforced polyester					
Coating	SBS modified bitumen					
Surfacing	Slate and/or mineral granules					
Bottom surfacing	Sand					
Characteristic	Method	Unit	Nominal value	minimum	maximum	
Length	EN 1848-1	m	10	-	-	
Width	EN 1848-1	m	1	0,995	1,005	
Mass per unit area	EN 1849-1	g/m ²	4200	3990	-	
Nominal thickness	EN 1849-1	mm	3,8	3,6	4,0	
Straightness	EN 1848-1	mm / m	pass		20/10	
Visual defects	EN 1850-1	-	no defects			
Declaration of performance			001.CPR.15611			
AVCP- class			2+			
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 11871 ¹	EN 13501-5	B _{ROOF} (t2)			
Characteristic	Method	Unit	EN 14695	EN 13707	minimum	maximum
Watertightness	EN 1928 B	kPa		pass	300	
Resistance to dynamic water pressure	EN 14694		pass			
Tensile strength - in longitudinal direction - in transverse direction	EN 12311-1	N/ 50 mm N/ 50 mm	1000 800	800 800	600 600	1000 1000
Elongation - in longitudinal direction - in transverse direction	EN 12311-1	% %	40 40	40 40	25 25	55 55
Nail shank tear resistance - in longitudinal direction - in transverse direction	EN 12310-1	N N		250 250	150 150	350 350
Bond strength +23/+8 °C to concrete to epoxy	EN 13596	N/mm ² N/mm ²	≥ 0,8/ 1,7 ≥ 0,8/ 1,6		≥ 0,5/ 1,0 ≥ 0,5/ 1,0	
Crack bridging ability -20 °C	EN 14224	°C	pass		-20	
Shear strength	EN 13653	N/mm ²	≥ 0,30		≥ 0,15	
Resistance to compaction of an asphalt layer	EN 14692		pass			
Resistance to static loading	EN 12370 A EN 12370 B	kg kg		20	15	
Resistance to impact	EN 12691	mm		1250	1000	
Shear resistance of joints	EN 12317-1	N/50 mm		NPD		
Durability*						
* Watertightness	EN 1296/1928 B	kPa			60	
* Chemical resistance	EN 1847/1928					
* Pliability - surface - bottom	EN 1296/1109	°C °C		-15 -10	-10 0	
* Flow resistance at elevated temperature	EN 1296/1110	°C		80	80	

Characteristic	Method	Unit	EN 14695	EN 13707	minimum	maximum
Pliability - surface - bottom	EN 1109	°C	-25 -25	-25 -25	-20 -20	
Flow resistance at elevated temperature	EN 1110	°C		80	80	
Adhesion of granules	EN 12039	%		8	0	30
Dimensional Stability	EN 1107-2	%		0,4		0,6
Dangerous substances ^{2, 3)}			No dangerous substances			
1) see: www.kerabit.fi 2) No asbestos or coal tar constituents 3) 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				NPD = no performance determined *tested after ageing		V1 4/19

Structure	Product	Material need	Package size	Structure thickness
Primer or epoxy	Kerabit KBL 20/100	about 100 g/m ²	20 liter	
	Gremmler1403 R or similar epoxy	brush 2 times, total about 1600 g/m ²	-	
Bitumen sheet	Keradeck 4500 UT +		1 x 8 m	≥ 7 mm
Bitumen sheet	Keradeck 4200		1 x 10 m	
Bitumen sheet	Keradeck 3000 U +		1 x 10 m	≥ 7 mm
Bitumen sheet	Keradeck 4200		1 x 10 m	