

Technical Information

SAFEWELD PVC C3-PLUS

SAFEWELD PVC C3-PLUS is a monomer plasticized and **higher UV stabilized** PVC waterproofing membrane. SAFEWELD PVC C3-PLUS membranes are produced with a central glass / glass combination reinforcement by extrusion.

SAFEWELD PVC is certified, approved and classified according to:

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| <ul style="list-style-type: none"> • EN 13956 CE-Waterproofing of Roofs • EN 13967 CE-Waterproofing of Buildings • Fulfills all German requirements (DIN standards) for waterproofing of roofs | <ul style="list-style-type: none"> • EN 13501-1 (Class E) • EN 13501-5 F_{ROOF} • External fire = B_{ROOF} (t1) valid for the respective proofed roof structure |
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Characteristics of SAFEWELD PVC:

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| <ul style="list-style-type: none"> • Reinforced (glass / glass combination reinforcement) with high dimensional stability • High tensile strength • With higher UV-stabilisation • Ozon- and UV resistant • Micro organism resistant • Suited for hot air and solvent welding | <ul style="list-style-type: none"> • High cold resilience • Root resistance • Thermoplastic deformable • (SAFEWELD PVC C3-PLUS) • Easy to recycle • Free of cadmium and lead stabilizers |
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Types and application areas:

SAFEWELD PVC C3-PLUS:	With central glass / glass combination reinforcement
Width:	1.060 mm / 1.650 mm
Nominal thickness:	1,5 mm / 1,8 mm / 2,0 mm
New building and refurbishment:	Mechanically fixed, loose laid under ballast
Colour:	Grey, further colours on request

System parts and accessories:

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| <ul style="list-style-type: none"> • Internal and external corners • Homogeneous material for detail forming • Coated metal sheets (Plates / coils) • Stainless steel drainage and ventilation elements • Lightning Rod Protection Tubes | <ul style="list-style-type: none"> • WITEC Walkway, membrane for maintenance paths • WITEC KV pro, protection fleece for the installation under ballast • Joint adhesives (Teroson AD 914, Teroson AD Adhesive Spray) |
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Product information according to EN 13956 and EN 13967

EN 13956

Exposed application (mechanically fixed)
Under ballast (gravel, green roof, ...)

Characteristic	Testing standard	Unity	Details	Result* 1,5 mm	Result* 1,8 mm	Result* 2.0 mm
Visible defects	EN 1850-2	-	passed	passed		
Length	EN 1848-2	m	MDV	20	17,5	15
Width		m	MDV	1,06/1,65		
Straightness		mm	MLV	≤ 50		
Flatness		mm	MLV	≤ 10		
Mass per unit area	EN 1849-2	kg/m ²	MDV	1,9	2,3	2,5
Water tightness	EN 1928 B	kPa	MLV	passed		
External fire performance	EN V 1187	-	Annex E	F _{ROOF}		
Reaction to fire	EN 13501-1	-	s. 5.2.5.2	Class E		
Joint peel resistance	EN 12316-2	N/50 mm	MLV	≥ 300		
Joint shear resistance	EN 12317-2	N/50 mm	MLV	≥ 800		
Tensile strength L/T	EN 12311-2	N/50 mm	MLV	≥ 1.000 / ≥ 1.100		
Elongation		%	MLV	≥ 2		
Resistance to impact	EN 12691	mm	MLV	≥ 600	≥ 800	≥ 800
Method A			MLV			
Method B	EN 12730	kg	MLV	> 20		
Resistance to static load	Method B					
Durability of water tightness against aging	EN 1296 EN 1928	-	passed	passed		
Durability of water tightness against chemicals	EN 1847 EN 1928	-	passed	passed		
Nail tear resistance	EN 12310-1	N	MLV	≥ 200		
Tear resistance	EN 12310-2	N	MLV	≥ 200		
Resistance to root penetration	EN 13948 / FLL	-	passed	Passed (in test)		
Dimensional stability	EN 1107-2	%	MLV	≤ 0,25		
Foldability at low temperature	EN 495-5	°C	MLV	≤ - 30		
UV exposure	EN 1297	visual	passed	passed		
Hail resistance	EN 13583	m/s	MLV	≥ 22	≥ 25	≥ 25
hard				≥ 30	≥ 33	≥ 33
soft						
Water vapour permeability	EN 1931	-	μ = MDV or 15.000	20.000 ± 30 %		

Explanation: MDV = Manufacturer's declared value
MLV = Manufacturer's limiting value
* Values in new conditions

You can find the declarations of performance on our website www.toprakinsaat.biz.tr

This technical data sheet was produced according to the latest technical knowledge and standards of SAFEWELD PVC C3-PLUS Bautechnik, Am Rosengarten 5, D-63607 Wächtersbach. Technical changes due to further developments are possible.