



CCW-MIRAPLY-H MATERIAL CERTIFICATION

This is to certify that CCW MiraPLY-H is a vertical grade, self-adhering membrane that is comprised of a tough, durable and flexible TPO backing with a butyl alloy adhesive designed for blindside waterproofing in below-grade construction. CCW MiraPLY is manufactured in the USA.

CCW manufactures CCW MiraPLY-H Membrane to comply with the following ASTM typical property values and meets the specification requirements:

CCW-MiraPLY-H-Property	Test Method	Unit	Typical Value*
TPO	-	mils (mm)	30 (.76)
Butyl Alloy	-	mils (mm)	25 (.64)
Thickness	ASTM D 1970	mils (mm)	55 (1.40)
Water Vapor Transmission	ASTM E 96 B	perms	0.090
Tensile Strength	ASTM D 882	psi	1,220
300% Modulus	ASTM D 412	psi	1,470
90° T-Peel	ASTM D 1876	lb.	>5.0
Elongation @ Break @ 23°C (Die C)	ASTM D 412	%	330
Flexibility Temperature @ -29°C (-20°F)	ASTM D 1970	Pass/Fail	No Cracking - Pass
Hydrostatic Pressure Resistance	ASTM D 5385	ft.	>231 (100 psi)
Lap Seam Peel 180° Peel	ASTM D 903	lbs/in	23.5
Peel Strength Over Poured Concrete (tested w/2" strips)	ASTM D 903	lb.	>5.0
Puncture Resistance Load at Puncture	ASTM E 154	lb.	151.3
Tear Strength	ASTM D 624	psi	700
Soil Decay Testing – E 96 Permeance	ASTM E 154	-	Pass
Soil Decay Testing – Weight Loss	ASTM D 154	-	Pass

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