

# General data, facts & figures

## Reynobond® ACM Technical Overview

Property	Units	RB120PE-3 mm	RB160PE-4 mm	RB240PE-6 mm	RB160FR-4 mm	Reynobond with KEVLAR®
<b>Thickness</b>	Inches mm	0.118 3.0	0.157 4.0	0.236 6.0	0.157 4.0	0.157 4.0
<b>Weight</b>	lb/ft² Kg/m²	0.94 4.59	1.12 5.47	1.51 7.37	1.53 7.48	1.10 5.37
<b>Min. Bond Strength ASTM D1781</b>	in-lb/in Nm/m	40 178	40 178	40 178	22.5 100	40 178
<b>Flatwise Shear ASTM D1002</b>	lb/in² Mpa	1,297 8.94	1,221 8.42	2,055 14.17	928 6.4	735 5.07
<b>Allowable Bending Stress (1)</b>	lb/in² Mpa	11,500 79.3	11,500 79.3	11,500 79.3	11,500 79.3	11,500 79.3
<b>Coefficient of Expansion ASTM E228</b>	in/in/F mm/mm/C	1.31x10 <sup>-5</sup> 2.36x10 <sup>-5</sup>	1.31x10 <sup>-5</sup> 2.36x10 <sup>-5</sup>	1.31x10 <sup>-5</sup> 2.36x10 <sup>-5</sup>	1.31x10 <sup>-5</sup> 2.36x10 <sup>-5</sup>	1.31x10 <sup>-5</sup> 2.36x10 <sup>-5</sup>
<b>Stiffness (EI)</b>	lb in²/in Mpa cm⁴/m	807 9.1x10³	1,140 12.8x10³	1,896 21.4x10³	1,262 14.3x10³	776 8.7x10³
<b>Flexural Modulus Aged per ASTM C393 (2)</b>	lb/in² Mpa	8.3x10⁶ 57.2x10³	6.0x10⁶ 41.4x10³	4.0x10⁶ 27.6x10³	6.7x10⁶ 46.2x10³	4.08x10⁶ 28.2x10³
<b>Moment of Inertia</b>	in⁴/in cm⁴/m	0.97x10 <sup>-4</sup> 0.159	1.89x10 <sup>-4</sup> 0.310	4.58x10 <sup>-4</sup> 0.751	1.89x10 <sup>-4</sup> 0.310	1.89x10 <sup>-4</sup> 0.310
<b>Section Modulus</b>	in³/in cm³/m	1.65x10 <sup>-3</sup> 1.065	2.41x10 <sup>-3</sup> 1.555	3.88x10 <sup>-3</sup> 2.503	2.41x10 <sup>-3</sup> 1.555	2.41x10 <sup>-3</sup> 1.555
<b>Tensile Yield ASTM D638</b>	lb/in² Mpa	8,300 57.23	6,405 44.16	5,314 36.64	6,367 43.90	15,700 108.25
<b>Flatwise Tensile ASTM C297</b>	lb/in² Mpa	1,483 10.22	1,371 9.45	1,099 7.58	961 6.62	513 3.53

(1) Allowable stress may be increased by 33% for wind load.

(2) Reynobond with KEVLAR® flex modulus fabric side up.

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## Paint Finish Quick Specification Reference

	CW 500/CW 500XL	DURAGLOSS® 5000	DURAGLOSS® 3000	CORAFLO®	FLUOROBRITE™	COLORWELD® 100
<b>Warranty</b>	30 yrs.	15 yrs.	10 yrs.	20 yrs.	5 yrs.	5 yrs.
<b>Resin Type</b>	70% PVDF	Modified Polyester	Modified Polyester	FEVE	FEVE	Polyester
<b>UV Performance</b>	****	****	***	***	**	*
<b>Gloss Range</b>	20% – 35%	25% – 35%	20% – 80%	20% – 35%	20% – 80%	20% – 80%
<b>Colors</b>	Opagues Metallics	Opagues Metallics	Opagues Metallics Bright Colors	Opagues Metallics	Bright Colors	Opagues Metallics Bright Colors
<b>Economics</b>	\$\$\$\$	\$\$\$	\$	\$\$\$\$\$	\$\$\$\$\$	\$

## Safety/Class A Rating Per ASTM E84

	Flame Spread	Smoke Developed
<b>Reynobond PE w/o Joint</b>	PASS* CLASS A	PASS* CLASS A
<b>Reynobond PE w/ Joint</b>	PASS* CLASS A	PASS* CLASS A
<b>Reynobond FR w/ Joint</b>	PASS* CLASS A	PASS* CLASS A
<b>Reynobond with KEVLAR®</b>	PASS* CLASS A	PASS* CLASS A

\*Flame spread ≤ 25, smoke developed ≤ 450.

## Building Code Recognition

Intertek Design Listing	No. AAP/CWP 30-01
New York City M.E.A.	MEA 75-91-M, MEA 390-99-M
Los Angeles Research Report	Pending
State of Wisconsin Approval	No. 990033-I
Miami-Dade N.O.A.	No. 06-1025.03 and No. 09-0625.01
Florida Product Approval	FL10220 Validated
Canadian Fire Test	CAN S101
Canadian Fire Test	CAN S102
Canadian Fire Test	CAN S134 Pending

Chicago • Canada • United Kingdom • Singapore  
Australia • New Zealand • Malaysia • France  
Germany • China • Hong Kong • Poland • Israel

## Product Availability

	Thickness	Standard Widths**	Standard Lengths*
<b>RB120PE-3 mm</b>	3 mm (0.118")	Consult for program widths including: 1000 mm (39.37") 1220 mm (48") 1270 mm (50") 1295 mm (51") 1524 mm (60") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
<b>RB160PE-4 mm</b>	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
<b>RB240PE-6 mm</b>	6 mm (0.236")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
<b>RB160FR-4 mm</b>	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
<b>Reynobond with KEVLAR®</b>	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")

\*Consult for standard lengths. \*\*Consult for color & finish availability.