General Data, Facts & Figures

Paint Finish Quick Specification Reference

	CW 500/CW 500XL	DURAGLOSS® 5000	DURAGLOSS® 3000	CORAFLON®
Warranty	30 yrs.	15 yrs.	10 yrs.	20 yrs.
Resin Type	70% PVDF	Modified Polyester	Modified Polyester	FEVE
UV Performance	*****	****	***	***
Gloss Range	20% – 35%	25% – 35%	20% – 80%	20% – 35%
Colours	Opaques Metallics	Opaques Metallics	Opaques Metallics Bright Colours	Opaques Metallics
Economics	$$$$	$$$	$$	$$$$$

Paint Finish Quick Specification Reference

	FLUOROBRITE™	COLORWELD® 100
Warranty	5 yrs.	5 yrs.
Resin Type	FEVE	Polyester
UV Performance	**	*
Gloss Range	20% – 80%	20% – 80%
Colours	Bright Colours	Opaques Metallics Bright Colours
Economics	$$$$$	$

Safety/Class A Rating Per ASTM E84

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

*Flame spread 25, smoke developed 450.

Product Availability

	Thickness	Standard Widths **	Standard Lengths *
RB120PE -3 mm	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")
RB160PE -4 mm	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
RB240PE -6 mm	6 mm (0.236")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
RB160FR -4 mm	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")
Reynobond with KEVLAR ®	4 mm (0.157")	1270 mm (50") 1575 mm (62")	1220 mm (48") to 6172 mm (20' 3")

*Consult for standard lengths. **Consult for colour & finish availability.

General Data, Facts & Figures

ACM Technical Overview

Property		Units	RB120PE-3 mm	RB160PE-4 mm	RB240PE-6 mm	RB160FR-4 mm	with KEVLAR®
Thickness		Inches mm	0.118 3.0	0.157 4.0	0.236 6.0	0.157 4.0	0.157 4.0
Weight		lb/ft² Kg/m²	0.94 4.59	1.12 5.47	1.51 7.37	1.53 7.48	1.10 5.37
BOND INTEGRITY	Min. Bond Strength ASTM D1781	in-lb/in Nm/m	40 178	40 178	40 178	22.5 100	40 178
	Flatwise Shear ASTM D1002	lb/in² Mpa	1,297 8.94	1,221 8.42	2,055 14.17	928 6.4	735 5.07
Allowable Bending Stress (1)		lb/in² Mpa	11,500 79.3	11,500 79.3	11,500 79.3	11,500 79.3	11,500 79.3
Coefficient of Expansion ASTM E228		in/in/F mm/mm/C	$1.31x10^{-5}$ $2.36x10^{-5}$	$1.31x10^{-5}$ $2.36x10^{-5}$	$1.31x10^{-5}$ $2.36x10^{-5}$	$1.31x10^{-5}$ $2.36x10^{-5}$	$1.31x10^{-5}$ $2.36x10^{-5}$
Stiffness (EI)		lb in²/in Mpa cm⁴/m	807 $9.1x10^{3}$	1,140 $12.8x10^{3}$	1,896 $21.4x10^{3}$	1,262 $14.3x10^{3}$	776 $8.7x10^{3}$
Flexural Modulus Aged per ASTM C393 (2)		lb/in² Mpa	$8.3x10^{6}$ $57.2x10^{3}$	$6.0x10^{6}$ $41.4x10^{3}$	$4.0x10^{6}$ $27.6x10^{3}$	$6.7x10^{6}$ $46.2x10^{3}$	$4.08x10^{6}$ $28.2x10^{3}$
Moment of Inertia		in⁴/in cm⁴/m	$0.97x10^{-4}$ 0.159	$1.89x10^{-4}$ 0.310	$4.58x10^{-4}$ 0.751	$1.89x10^{-4}$ 0.310	$1.89x10^{-4}$ 0.310
Section Modulus		in³/in cm³/m	$1.65x10^{-3}$ 1.065	$2.41x10^{-3}$ 1.555	$3.88x10^{-3}$ 2.503	$2.41x10^{-3}$ 1.555	$2.41x10^{-3}$ 1.555
Tensile Yield ASTM D638		lb/in² Mpa	8,300 57.23	6,405 44.16	5,314 36.64	6,367 43.90	15,700 108.25
Flatwise Tensile ASTM C297		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) With KEVLAR® flex modulus fabric side up. Information contained herein or related hereto is intended only for evaluation by technically skilled persons, with any use thereof to be at their independent discretion and risk. Such information is believed to be reliable, but Abel Building Solutions ("ABS") shall have no responsibility or liability for results obtained or damages resulting from such use. ABS grants no licence under, and shall have no responsibility or liability for infringement of, any patent or other proprietary right. Nothing in this document should be construed as a warranty or guarantee by ABS, and the only applicable warranties will be those set forth in ABS' acknowledgement or in any printed warranty documents issued by ABS. The foregoing may be waived or modified only in writing by an ABS representative.