

**ANCHORS & FASTENERS**

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AC50™ Adhesive Anchoring System and ASTM C881 Requirements

The AC50 adhesive anchoring system meets the requirements of ASTM C 881 and AASHTO M235, Types I, II, IV and V, Grade 3, Classes A & B. The material test results in accordance with ASTM C881 are as follows:

Test	AC50		Minimum requirements per ASTM C881, Grade 3	
	Tested at 32±2° F Class A	Tested at 50±2° F Class B		
Tensile Strength*, <i>psi</i> (ASTM D 638) 7 days	7,210	7,490	Type I	5,000 psi
			Type II	2,000 psi
			Type IV	7,000 psi
			Type V	6,000 psi
Compressive Yield Strength at 7 days, <i>psi</i> ASTM D 695	18,900	19,450	Type I & V	8,000 psi
			Type II	5,000 psi
			Type IV	10,000 psi
Compressive Modulus, <i>psi</i> (min) ASTM D 695	280,000	288,500	Type I & V	150,000 psi
			Type II	90,000 psi
			Type IV	200,000 psi
			Type III (max)	130,000 psi
Water Absorption, %, 24 hrs. ASTM D570	0.015	0.035	Types I through IV	max 1%
Bond Strength, <i>psi</i> ASTM C 882	2,195	2,380	2 days moist cure	1,000 psi
	2,210	2,315	14 days moist cure	1,500 psi
Linear Coefficient of Shrinkage on cure, in/in ASTM D2566	0.0020	0.0025	Max 0.005 in/in	
Heat Deflection Temperature, °F (min), 7 days	135	146	Types IV & V	120° F (50° C)
Thermal Compatibility	Passes	Passes	Type III	Passes test
Gel Time (minimum)	45	30	30 minutes	
Elongation at Break, % min	3.2	4.1	Types I, II, IV & V	1%

*Tensile strength not required for Grade 3

If there are any questions or if you require any additional information, please contact us.