



BOBBY JINDAL
GOVERNOR

STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
Materials and Testing
5080 Florida Blvd.

Baton Rouge, Louisiana 70806-4123
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SHERRI H. LEBAS, P.E.
SECRETARY

January 10, 2013

Mr. Robert Antoinette
Staff Engineer
Powers Fasteners, Inc.
2 Powers Lane
Brewster, NY 10509

Re: Pure 50+ & Pure 110+

Dear Mr. Antoinette:

The Department has completed the evaluations of above referenced products. The field tests show that **Pure 50+ & Pure 110+** conform to the Department's specifications for Adhesive Anchoring Systems for Concrete.

Powers Fasteners, Inc.'s Pure 50+ & Pure 110+ have, therefore, been approved and added to the Qualified Products List 40 for Concrete Anchor Systems & Qualified Products List 52 for Adhesive Anchor Systems for Deformed Tie Bars & Dowel Bars as follows:

**QPL 40
CONCRETE ANCHORING SYSTEMS
(C) INJECTION SYSTEMS**

Product Source Code	Product	Bolt Size mm (in)	Approx Cure Time	Min Embed. mm (in)	Working Loads				Source
					Pull-Out kN (lbs)		Shear kN (lbs)		
4078	Pure 50+	9.5 (3/8)	8 hrs. @ 25°C (77°F)	86 (3-3/8)	9.5 (2,125)	7.1 (1,585)	Powers Fasteners, Inc. 2 Powers Lane Brewster, NY 10509		
		12.7 (1/2)		114 (4-1/2)	17.3 (3,890)	12.9 (2,900)			
		15.9 (5/8)		143 (5-5/8)	26.3 (5,920)	20.6 (4,625)			
		19.1 (3/4)		171 (6-3/4)	40.6 (9,120)	30.4 (6,845)			
		22.2 (7/8)		200 (7-7/8)	50.7 (11,435)	42.0 (9,445)			
		25.4 (1)		227 (9)	72.7 (16,340)	55.1 (12,395)			
		31.8 (1-1/4)		286 (11-1/4)	88.6 (19,925)	88.2 (19,830)			
4079	Pure 110+	9.5 (3/8)	8 hrs. @ 25°C (77°F)	86 (3-3/8)	11.4 (2,560)	9.9 (2,225)	Powers Fasteners, Inc. 2 Powers Lane Brewster, NY 10509		
		12.7 (1/2)		114 (4-1/2)	22.2 (4,985)	18.0 (4,055)			
		15.9 (5/8)		143 (5-5/8)	31.4 (7,050)	27.8 (6,260)			
		19.1 (3/4)		171 (6-3/4)	45.1 (10,130)	40.1 (9,010)			
		22.2 (7/8)		200 (7-7/8)	59.2 (13,300)	54.6 (12,265)			
		25.4 (1)		227 (9)	86.6 (19,925)	71.3 (16,020)			
		31.8 (1-1/4)		286 (11-1/4)	113.6 (25,545)	111.4 (25,035)			

QPL 52
ADHESIVE ANCHOR SYSTEMS FOR DEFORMED TIE BARS & DOWEL BARS

Product Source Code	Product	System	Source
5268	Pure 50+	Injection	Powers Fasteners, Inc. 2 Powers Lane
5269	Pure 110+	Injection	Brewster, NY 10509

Should you have any questions or comments about this approval, please contact Justin Morris at (225) 248-4219.

Sincerely,



Chris Abadie, P.E.
Materials Engineer Administrator

CA:jwm

cc: Francisco Gudiel
Khiet Ngo
Alton Booth
Cassandra Collins