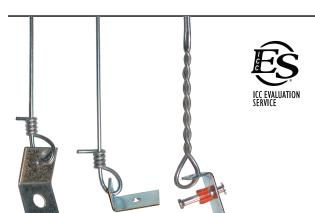


Tie Wires and Clips Submittal of Product Performance 2016

including approvals

SUBMITTAL SHEET

Submittal Sheet #90-012017



ICC Evaluation Service, Inc.

- FSR-1530
- Lab testing by Specialized Testing, Report # STQA50164/STQA50236 an IAS (International Accreditation Service, IAS TL228) accredited testing lab.
- Other data presented by International testing labs.

Spec of Fasteners

- Manufactured from AISI 1060 steel wire, heat-treated to a Rockwell C hardness of 52-55.
- Mechanically zinc-plated to a minimum thickness if 0.0002 inch (0.005 mm).
- The zinc plating conforms to ASTM B 695.

Performance Stats

Part Number	Shank Diamete	Min. Penetration	Install in Stone Aggregate Concrete Concrete Compressive Strength Allowable Load - Ultimate Load							
Series				4000PSI			6000PSI			
	r (Inch)	(inch)	Tension (LBS)	Shear (LBS)	Oblique	Tension (LBS)	Shear (LBS)	Oblique		
					(LBS)			(LBS)		
PDAC90 - 25F10	.145	7/8	118 <i>590</i>	112 <i>560</i>	132 <i>660</i>					
PDAC90 - 32F10	.145	1 - 1/8	115 <i>575</i>	146 <i>730</i>	151 <i>755</i>					
PDACTH90 - 22F10	.145	3/4	143 <i>715</i>	174 <i>870</i>		92 <i>460</i>	99 <i>495</i>			
PD157 - 78THC90	.157	3/4	146 <i>730</i>	166 <i>830</i>		152 <i>760</i>	156 <i>780</i>			
FR - AC	.145	1 - 1/8	115 <i>575</i>	146 <i>730</i>	151 <i>755</i>					

Part Number Series	Shank Diameter	Min. Penetratio	Ir	nstall in 3000 PSI Light	owable Working Values weight Concrete Filled Steel able Load - Ultimate L		
	(Inch)	n(inch)	3000PSI Lightweight with Metal			Decking	
			Lower Flute Tension (LBS)	Lower Flute Shear (LBS)	Lower Flute Oblique (LBS)	Upper Flute Tension(LBS)	Upper Flute Shear (LBS)
PDAC90 - 25F10	0.145	7/8	73 <i>365</i>	215 <i>1075</i>	n/a	97 <i>485</i>	295 <i>1475</i>
PDAC90 -32F10	0.145	1 - 1/8	145 <i>725</i>	265 <i>1325</i>	n/a	230 <i>1150</i>	274 <i>1370</i>
PDACTH90 -22F10	0.145	3/4	66 <i>330</i>	170 <i>850</i>	n/a	80 <i>400</i>	265 <i>1325</i>

PD157 - 78THC90	0.157	3/4	81 <i>405</i>	196 <i>980</i>	n/a	86 <i>430</i>	262 <i>1310</i>
FR - AC	0.145	1 - 1/8	145 <i>725</i>	265 <i>1325</i>	n/a	230 <i>1150</i>	274 <i>1370</i>

Notes:

- Data in accordance with ICC-ES acceptance criteria for Fasteners Power-driven into Concrete. Please check with Blue point Fastening for other material.
- 2. Meets AC70 and ASTM E 1190-95 acceptance criteria.
- 3. For SI: 1 inch = 25.4 mm, 1 psi = 6.89 kPa, 1 lbf = 4.45 N.
- 4. The minimum fastener spacing is 4 inches' center to center, the minimum edge and distances are 3 inches.
- 5. The oblique tension load is applied at a 45-degree angle; vertical tension load is applied at a 90-degree angle to the substrate parallel to the fastener; shear load is applied parallel to the substrate (perpendicular to the fastener).
- 6. The allowable tension values are for the angle clip fastener assembly only. Connected materials shall be investigated separately in accordance with accepted design criteria.
- 7. The angle clips are produced from 0.075-inch-thick (1.9 mm) zinc-plated steel having a minimum of 0.0002-inch-thick (0.005 mm) plating.
- 8. Various job sites may require testing to determine job site values.
- Safety: The fasteners shall not be installed until the concrete has reached the designated minimum compressive strength.
- 10. Minimum concrete thickness is three time the fastener embedment into the concrete.
- 11. Other testing data can be obtained online or direct from the manufacturer.

8-gauge hanger wire technical data

Tensile Range	Zinc Thickness	Elongation	Yield Stress	Wire diameter	Typical capacity
75 ksi max	≥25g/m ^²	26%	≥59 ksi	.162	1440 lbs

[•] All wires conform to ASTM A641-92

9-gauge hanger wire technical data

Tensile Range	Zinc Thickness	Elongation	Yield Stress	Wire diameter	Typical capacity
75 ksi max	≥25g/m ^²	26%	≥59 ksi	.147	1190 lbs

[•] All wires are conforming to ASTM A641-92

10 Gauge wire hanger wire technical data

Tensile Range	Zinc Thickness	Elongation	Yield Stress	Wire diameter	Typical capacity
75 ksi max	≥25g/m ^²	26%	≥59 ksi	.135	800 lbs

[•] All wires are conforming to ASTM A641-92

12 Gauge wire hanger wire technical data

Tensile Range	Zinc Thickness	Elongation	Yield Stress	Wire diameter	Typical capacity
75 ksi max	≥25g/m ²	26%	≥59 ksi	.105	600 lbs

[•] All wires are conforming to ASTM A641-92

Item Number	Description	Pin & Cl	ip Size	Count
DHW1204BP7	4' x 12ga. Galvanized Ceiling Wire	7/8-in	Pin & Clip	100pcs
DHW1204BP100	4' x 12ga. Galvanized Ceiling Wire	1-in	Pin & Clip	100pcs
DHW1206BP78	6' x 12ga. Galvanized Ceiling Wire	7/8-in	Pin & Clip	100pcs
DHW1206BP100	6' x 12ga. Galvanized Ceiling Wire	1-in	Pin & Clip	100pcs
DHW1206BP125	6' x 12ga. Galvanized Ceiling Wire	1-1/4-in	Pin & Clip	100pcs
DHW1208BP78	8' x 12ga. Galvanized Ceiling Wire	7/8-in	Pin & Clip	100pcs
DHW1208BP100	8' x 12ga. Galvanized Ceiling Wire	1-in	Pin & Clip	100pcs
DHW1208BP125	8' x 12ga. Galvanized Ceiling Wire	1-1/4-in	Pin & Clip	100pcs
DHW1210BP78	10' x 12ga.Galvanized Ceiling Wire	7/8-in	Pin & Clip	100pcs
DHW1210BP100	10' x 12ga. Galvanized Ceiling Wire	1-in	Pin & Clip	100pcs
DHW1210BP125	10' x 12ga. Galvanized Ceiling Wire	1-1/4-in	Pin & Clip	100pcs
DHW1212BP78	12' x 12ga. Galvanized Ceiling Wire	7/8-in	Pin & Clip	100pcs
DHW1212BP100	12' x 12ga. Galvanized Ceiling Wire	1-in	Pin & Clip	100pcs
DHW1212BP125	12' x 12ga. Galvanized Ceiling Wire	1-1/4-in	Pin & Clip	100pcs
DHW1204BP125	4' x 12ga. Galvanized Ceiling Wire	1-1/4-in	Pin & Clip	100pcs

 $^{{}^{*}}$ Contact your Grabber sales representitive to confirm stock in your area.

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