



Tie Wires and Clips

Submittal of Product Performance 2016

including approvals

SUBMITTAL SHEET

Submittal Sheet #90-012017



ICC Evaluation Service, Inc.

- ESR-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 of 0.0002 inch (0.005 mm).
- The zinc plating conforms to ASTM B 695.

Performance Stats

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

Part Number Series	Shank Diameter (Inch)	Min. Penetration (inch)	Allowable Working Values Install in 3000 PSI Lightweight Concrete Filled Steel Deck Allowable Load - Ultimate Load				
			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	73 365	215 1075	n/a	97 485	295 1475
PDAC90 -32F10	0.145	1 - 1/8	145 725	265 1325	n/a	230 1150	274 1370
PDACTH90 -22F10	0.145	3/4	66 330	170 850	n/a	80 400	265 1325

PD157 -78THC90	0.157	¾	81 405	196 980	n/a	86 430	262 1310
FR -AC	0.145	1 - 1/8	145 725	265 1325	n/a	230 1150	274 1370

Notes:

1. 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 = 6.89kPa, 1 lbf = 4.45N.
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.
9. 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 & Clip 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 representative to confirm stock in your area.

SUBMITTAL APPROVALS: Prefabricated Corner Assembly

JOB NAME

CONTRACTOR

DATE

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