

CARLISLE SURE-SEAL® HP FASTENERS

GENERAL:

Carlisle HP Fasteners, specially designed by Carlisle, are used with Carlisle's Fastening Plates to secure membrane, insulation and RUSS™ strips. The HP Fastener is used on wood (minimum 15/32" [12 mm] CDX plywood) and steel decks (22 gauge [0.76 mm] or heavier). The HP Fastener is designed to offer a good combination of pullout, backout and corrosion resistance with excellent driving performance.

TYPICAL PROPERTIES AND CHARACTERISTICS:

Size Inch (mm)	Weight/Bkt. (Kg)	Thread Length Inch (mm)	Packaging Fasteners/Bkt.
1¼ (30)	12 lbs (5.4)	Full	1,000
1¾ (45)	16 lbs (7.3)	Full	1,000
2¼ (60)	23 lbs (10.4)	Full	1,000
2¾ (70)	24 lbs (10.9)	Full	1,000
3¼ (80)	27 lbs (12.2)	3 (75)	1,000
3¾ (95)	31 lbs (14.0)	3 (75)	1,000
4¼ (110)	36 lbs (16.3)	4 (100)	1,000
5 (130)	41 lbs (18.6)	4 (100)	1,000
6 (150)	50 lbs (22.7)	4 (100)	1,000
7 (175)	29 lbs (13.2)	4 (100)	500
8 (200)	33 lbs (15.0)	4 (100)	500
9 (225)	37 lbs (16.8)	4 (100)	500
10 (250)	41 lbs (18.6)	4 (100)	500
11 (280)	45 lbs (20.4)	4 (100)	500
12 (300)	48 lbs (21.8)	4 (100)	500
13 (330)*	52 lbs (23.6)	4 (100)	500
14 (355)*	56 lbs (25.4)	4 (100)	500
15 (380)*	60 lbs (27.2)	4 (100)	500

* Supplied in cardboard cartons only

- One #3 square drive screwdriver bit is included in each carton.
- .180-inch wire diameter with a #3 square drive.

	Steel Deck 22 Gauge or Heavier	Wood Deck 15/32" Plywood
Typical Pullout Value	575 lbs. (260 Kg)	400 lbs. (181 Kg)
Minimum Penetration	3/4" (19 mm)	1" (25 mm)
Maximum Penetration	4" (100 mm)	4" (100 mm)
Typical Static Backout	15.1 in. lbs. (1.7 N-m)	N/A
Typical Drill Times	1.5 sec.*	N/A

***18-gauge deck**

- **Buttress thread angle 10°/45° puts a flatter and wider surface area in contact with the bottom of the deck, increasing pullout and backout resistance.**
- **13 threads per inch increases the thread engagement, providing additional backout resistance.**
- **Mini drill-point design cuts a hole in steel decks maintaining contact between the deck and the minor diameter of the fastener, increasing backout resistance.**
- **Black epoxy electro-deposition coating provides excellent corrosion resistance, surpassing the FM 4470 corrosion test of less than 15% red rust after 15 cycles in the Kesternich cabinet. Typical corrosion values are less than 15% red rust after 25 cycles in the Kesternich cabinet.**

CAUTIONS AND WARNINGS:

- **Eye protection is recommended during installation.**
- **Use care to avoid over-driving the fastener.**

INSTALLATION:

No pre-drilling is necessary for wood and steel decks. Simply insert the HP Fastener through the appropriate Carlisle plate and install with a standard clutch drive electric screw gun. Ultimate fastener performance is achieved when the fastener is installed perpendicular to the deck and into the top flutes of a steel deck.

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