

**CARLISLE SURE-SEAL® HP LIGHTWEIGHT FASTENERS**

**GENERAL:**

HP Lightweight Fasteners and HP Lightweight Fastening Plates are specifically designed for securing membrane insulation or RUSS™ to lightweight decks such as cement wood fiber, gypsum, or insulating concrete decks.

**TYPICAL PROPERTIES AND CHARACTERISTICS:**

Size Inches (mm)	Weight/Carton Pounds (Kg)	Packaging Fasteners/Carton
2 (50)	15 (6.8)	500
2½ (63)	15 (6.8)	500
3 (75)	15 (6.8)	500
3½ (88)	20 (9.1)	500
4 (100)	20 (9.1)	500
4½ (115)	20 (9.1)	500
5 (130)	20 (9.1)	500
5½ (140)	25 (11.3)	500
6 (150)	25 (11.3)	500
6½ (165)	25 (11.3)	500
7 (175)	25 (11.3)	500
7½ (190)	30 (13.6)	500
8 (200)	15 (6.8)	250
8½ (215)	15 (6.8)	250
9 (225)	15 (6.8)	250
9½ (240)	18 (8.2)	250
10 (250)	18 (8.2)	250
<b><u>Plates</u></b>		
2 (50)	13 (5.9)	500
3 (75)	18 (8.2)	500

- Ratchet mechanism between plate and fastener provides excellent backout resistance.
- Unique thread design provides substantial pullout resistance.
- Square drive bit (included in every box) provides ease of alignment.
- HP Lightweight Plates provide excellent corrosion resistance, meeting the FM 4470 corrosion test.

## **CAUTIONS AND WARNINGS:**

- Carlisle recommends the use of an electric impact tool to install the fastener through the plate into the substrate a minimum of 1½" (37.5 mm).
- Pullout load tests must be conducted in accordance with Carlisle's Withdrawal Resistance Test Criteria to determine the structural integrity of the substrate and the holding ability of the fastener.
- Eye protection is recommended during drilling and installation.
- If a pilot hole is required it must be pre-drilled to a sufficient depth to prevent contact between the fastener tip and any accumulated dust in the pre-drilled hole.

## **INSTALLATION:**

- Most cementitious wood fiber decks do not require pre-drilling, unless installing through an existing roofing system. Do not penetrate the cementitious deck when pre-drilling the existing roof system. Gypsum or insulating concrete decks require a 7/16" (11 mm) diameter pilot hole.
- Install fastener through appropriate plate using an electric impact tool. Minimum penetration is 1½" (37.5 mm).
- Use care to avoid underdriving or overdriving fasteners.