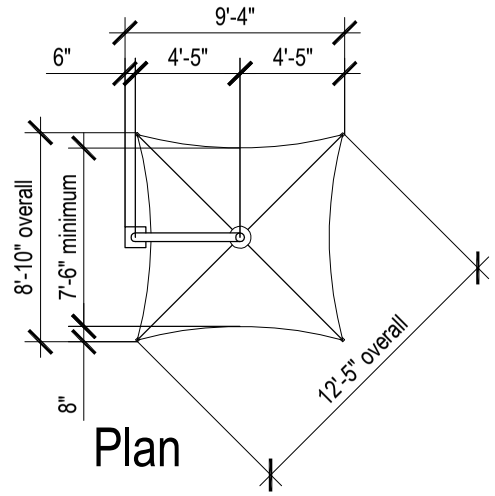
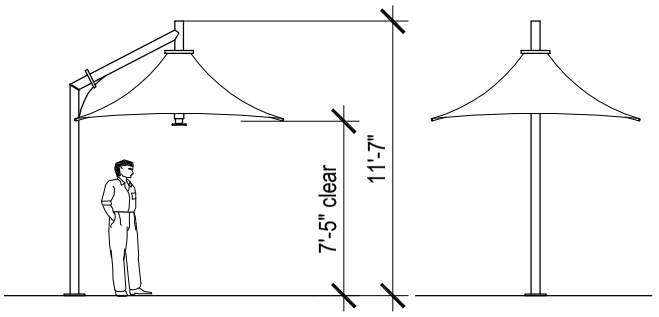
LEVA SQUARE 8'-10" - LS27
Designed to 90mph, Exp B
Rated when umbrella is fully erected.
Umbrella weight: 115 lb.
Boom weight: 225 lb.

Overall dimensions represent clearance dimensions for the complete umbrella. Membrane dimensions differ, depending on variations in tensioning and fabrication. All dimensions are nominal and have a tolerance of +/- 2".

Note : The umbrellas must be closed and tied before wind speeds reach gusts of 60mph (100km/h) Refer note on Specification - Umbrella Design.

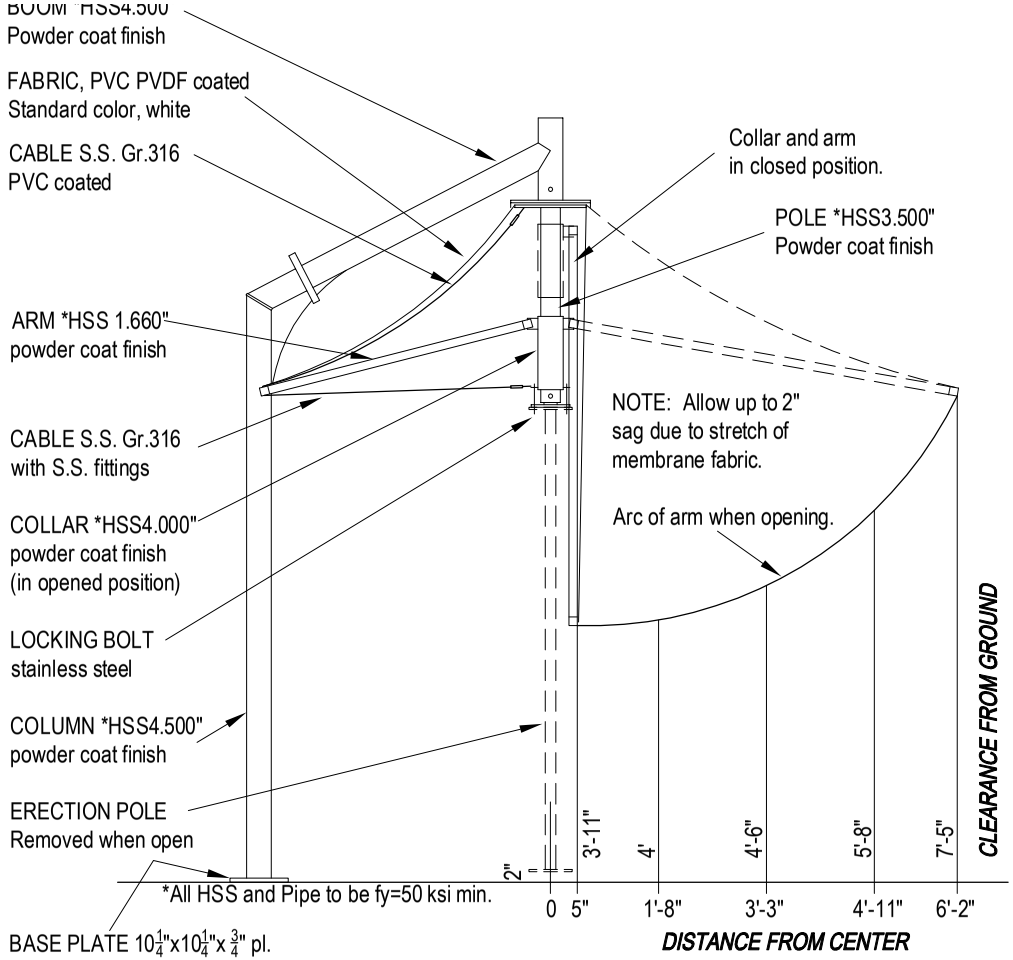


Plan



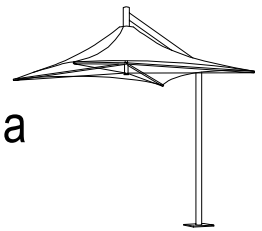
Side Elevation

Elevation



OPENED POSITION
View square to boom

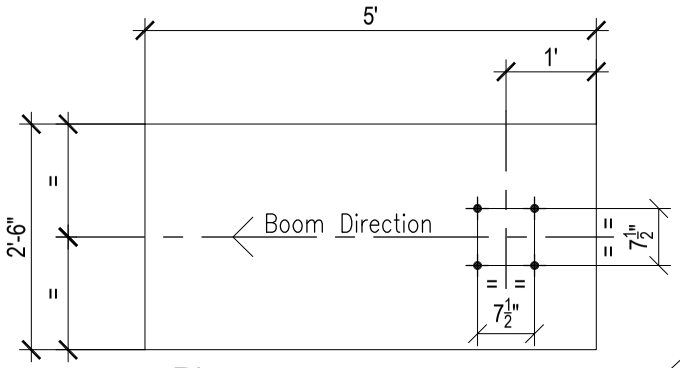
CLOSED POSITION
View square to arm



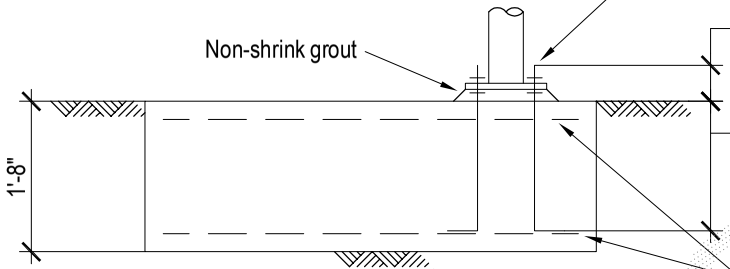
8'-10" Side Support Square Umbrella
Leva - Model LS27

Leva Model LS27 Architectural Umbrellas		BIRDAIR
Birdair Inc.	Engineering Framing EF-LS27-07.10	www.birdairumbrellas.com sales@birdairumbrellas.com

Figured dimensions take precedence. Do not scale.



Plan



4-¾" F1554 Gr. 36 galvanized H.D. bolts with nuts and leveling nuts - 4" hook to suit level of top of paving, tiling, etc

2⅜" min
6" max.

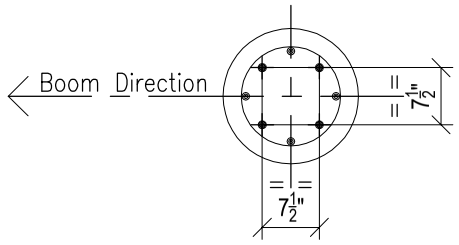
1'-5" embedment (cast in)

6x6-W5.5xW5.5 wire mesh top & bottom

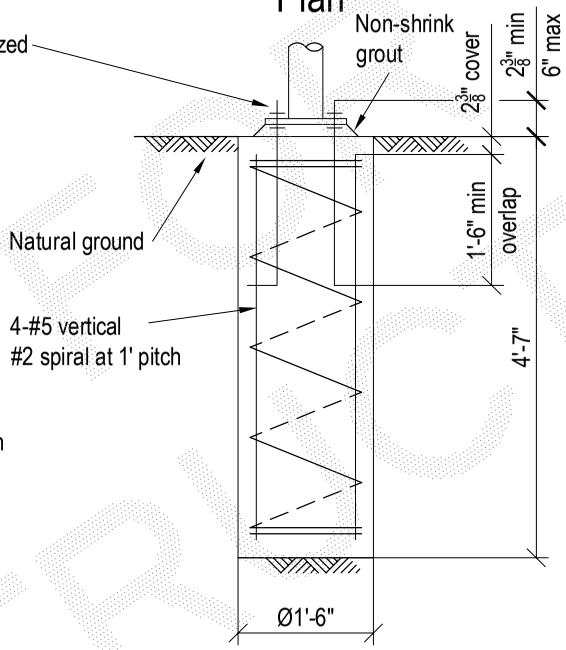
Natural Ground

Elevation

LS27 - Pad Footing



Plan



Elevation

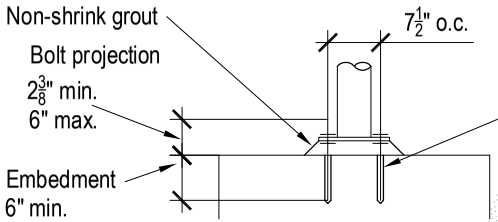
LS27 - Pier Footing

Notes:
Designed to 90mph, Exp B

Assumed soil conditions:
Pad - bearing capacity 14.5 psf
Pier - cu=7.25 psf (stiff clay)

Minimum 2⅜" cover to all reinforcement
Concrete strength - f'c 3600 psi.
¾" aggregate size
Slump 2½"

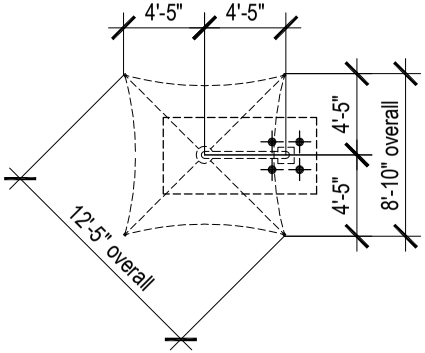
Anchor bolt location tolerances per Australian Standard AS 4800-1998
- 3mm for anchor bolt centers within an anchor bolt group.
- 6mm for adjacent anchor bolt group centers.
- Maximum accumulation of 6mm per 30m not to exceed a total of 25mm.
- 6mm from anchor bolt group center to column line center.



4-¾" H.D. bolts to be threaded rod grade F1554 Gr. 36 hot dipped galvanized, or stainless steel Gr.316. Supplied with nuts, washers and leveling nuts.

Chemical anchors, at 7½" x 7½" centers to be **'Ramset Reo 502' (or 'Hilti HIT-RE 500')**, or engineer approved equivalent, and to be installed in accordance with the manufacturer's instructions.

Chemical Anchor Detail



H.D. Bolt Layout Plan

Not to scale

Leva Model LS27
Architectural Umbrellas

Birdair Inc.

Footing Detail FD-LS27-08.10

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