13'-4" overall

F1554 Gr. 36 galvanized or stainless steel Gr.316.

With dome nuts and leveling nuts.

OPENED POSITION

CLOSED POSITION

CENTRA SQUARE 13'-4" - CS40 Designed to 90mph, Exp. B Rated when umbrella is fully erected Umbrella weight: 194 lb

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

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

 $4-\frac{1}{2}$ " hold down bolts at $5\frac{1}{2}$ " o.c. BASE PLATE $7\frac{7}{8}$ " $x7\frac{7}{8}$ " $x^{\frac{1}{2}}$ " pl. with Ø2" service hole. *All HSS and Pipe to be fy=50 ksi min. powder coat finish POLE *HSS3.500" COLLAR *HSS4.000 PVC coated stainless steel cable RETAINING BOLT stainless steel (in opened position) powder coat finish with S.S. fittings CABLE S.S. Gr.316 Standard color, white FABRIC, PVC PVDF coated for length of collar travel. Stainless steel sleeve pole protector powder coat finish ARM *HSS1.900" 1'-4" in closed position. powder coat finish 1'-5' Collar and arm TOP HAT aluminium <u>-</u> Arc of arm when opening sag due to stretch of NOTE: Allow up to 2' membrane fabric. ယ ယူ 1'-9" DISTANCE FROM POLE 4'-11" 6'-7" 2'-5' 3'-7' 8'-2<u>"</u> 5'-5' 7'-5' 9'-2

CLEARANCE FROM GROUND

Centra - Model CS40 13'-4" Center Support Square Umbrella

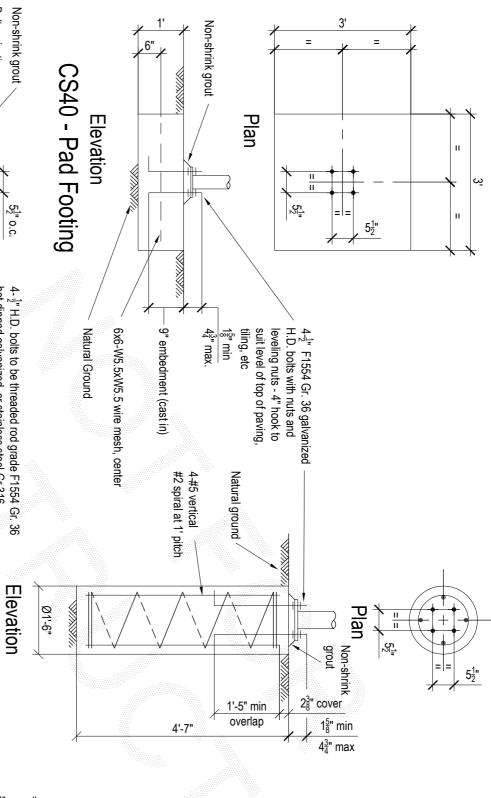


EF-CS40-07.10 www.birdairumbrellas.com sales@birdairumbrellas.com

Engineering Framing

Figured dimensions take precedence. Do not scale.

Birdair Inc.



Chemical Anchor Detail

and dry at time of installation.

and to be installed in accordance with the 'Hilti HVU', or engineer approved equivalent Chemical anchors, at $5\frac{1}{2}$ " x $5\frac{1}{2}$ " centers to be Supplied with nuts, washers and leveling nuts. hot dipped galvanized, or stainless steel Gr.316.

manufacturer's instructions. Hole to be clean

 $4\frac{1}{2}$ min. Embedment

Bolt projection

 $4\frac{3}{4}$ " max. alo min.

Notes:

Designed to 90mph, Exp B

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

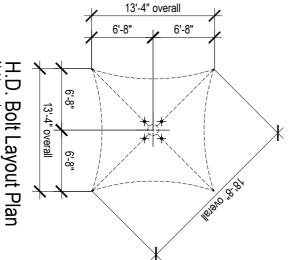
Slump $2\frac{1}{2}$ $\frac{3}{4}$ " aggregate size Concrete strength - fc 3600 psi Minimum 28" cover to all reinforcement

Anchor bolt location tolerances per

- Australian Standard AS 4800-1998 3mm for anchor bolt centers
- 6mm for adjacent anchor bolt within an anchor bolt group.

group centers.

- not to exceed a total of 25mm Maximum accumulation of 6mm per 30m
- 6mm from anchor bolt group center to column line center.



CS40 - Pier Footing

Architectural Umbrellas Centra Model CS40

Birdair Inc. | Footing Detai