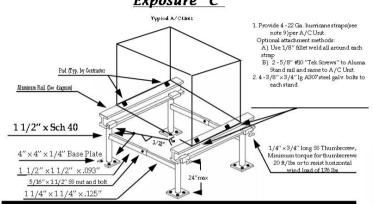
ADJUSTABLE CONDENSING UNIT BASE "ALUMA STAND-HD" "Heavy Duty" Exposure "C"



A/C STAND REACTIONS TABLE						
ROOF MATERIAL	ALLOWABLE ELEVATION @ 146 mph	ALLOWABLE WGT / UNIT	UPLIFT	LATERAL	COMPRESSION	BENDING MOMENT
Concrete Deck Steel Bar Joist	180'	350 lbs	282#	318#	582#	252.0 ft lb
Wood Deck	75'	350 lbs	282#	318#	582#	284.0 ft lb

Notes

18upport frames 6061-T6 Aluminum Alloy (an exterior exposure alloy), all joints welded, other that shown

2Yield strength shall be 35ksi and conform to then American Aluminum Association standards

3Weld filler shall be aluminum alloy 4043 with a tensile strength of 15ksi

4Frame withstands wind loads as per 2001 Florida Building Code and ASCE 798

Sit is the responsibility of the installing contractor to provide adequate anchorage as shown on this plan, and to provide corrosion resistant isolation pads at the bottom of the base plates when bearing on concrete and steel structures

6Expansion bolts & lags screws shall have a minimum spacing of 2.5" & a minimum edge distance of 1" for lags and 3" for expansion bolts

7Vibration isolator pads shall be provided by the A/C Contractor so as not to cause vibration to existing substructure

SCalculations are based on the surface of the A/C unit. This is determined by multiplying the unit width by the unit height, with the result being the surface aquare footage. The maximum sixes allowed for the Aluma Stand are denoted in the table on page 2

Complies With ASCE 7-98 @ 146mph DESIGN WIND PRESSURE Maximum Wind Pressure Bromley-Cook Engineering Structural Engineering Services William Cook, P.E. #43904 2004 N.E. 49th St Ft Laudendale, Fl. 33308 (954) 772-4624 A/C Stand on Concrete Roof 79.0 nsf or Steel Joist Structure A/C Stand on Wood Deck Roof 79.0 nsf Typical Connection to Std. Wgt. Concrete FASTENERS: Base Plate 4 - 1/4" Hilti "KWIK Bolt II"* w / 2" Min. Embedment 4 - 1 / 4" Dia Raw1 Mushroom Head Spikes w / 1 1/4" Min. Embedment 1339 SW 1st Way Deerfield Boach, Ft 33441 (934) 480-6919 Typical Connection to Steel Joist RAIL SECTION Cut away metal deck plate to bear directly on joist top chard 4 - HILTI Model OPTIONAL: #EDS22P10 × 3/4" Lg Four(4) Power Driven Fasteners #14 self tapping (typ.ea.baseplate) Tek Screws CLAMP DETAIL Joist Stiffener Requirements Precision BASE PLATE DETAIL CNP Add web member when A/C stand support is not on panel points Drawing # Typical Connection to Revision Dates Wood Beam/Truss 10/14/96 12/12/96 6/14/99 8/21/01 4/15/02 Optional OPTIONAL Side 4 - 3/8" lag screws 2-3/8" las screws w / 2 1/2" Min. w / 31/2" Min. Embedment of Embedment into Beam/Truss 9 into Beam/Truss (typ. Ea. Base Plate) Wood Truss