



Current Engineering DetailsDated 4/01/2003

Hurricane Stands

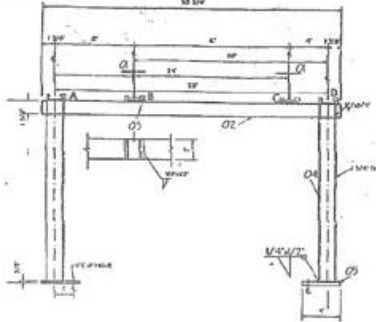
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Avcoa Corp.

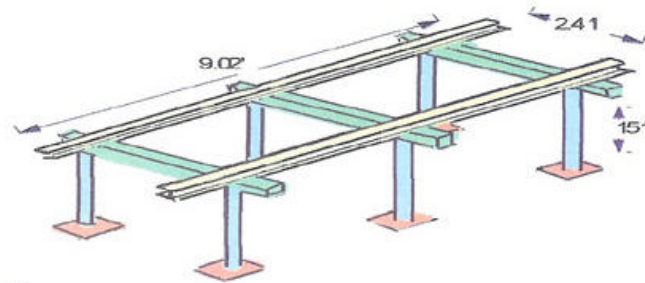
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SIDE VIEW OF TYPICAL LEG ASSEMBLY



TYPICAL 9 FOOT STAND CONFIGURATION
 3 18" LEG ASSEMBLIES & 2 9'1 BEAMS @ 28 CENTER

Aluminum A/C Equipment Stands...manufactured by ..AVCOA Corp.

All Stands are Professionally Engineered and Certified to the stringent requirements of the Florida State Building Codes, Dated 2001 Effective March 01,2002. All Stands are engineered Exposure "C" Conditions calculated under the rules of ASCE-7-98.

Aluminum Hurricane Stands are available from stock in leg heights of 18" & 24" with adjustable rail lengths of 2 feet – 18feet and with adjustable rail widths of 16", 20", 24" and 28". Avcoa Corp. also manufactures Custom Stand Heights, Lengths and Widths which are readily available. ... By adding larger leg assemblies we can reduce the number of legs needed per stand, which reduces the roofing expenses. By adding large leg assemblies you also increase the Capacity of each stands to hold bigger A/C units. Avcoa Corp. Aluminum Stands are easy to assemble and have been manufactured since 1979. Avcoa Corp. Aluminum Hurricane Stands are available from your local Supply House.

ENGINEERING NOTES *

Dated April 4,2003

- Strapping Detail**
- 1].....Use Four (4) 22 gauge x 1.82" wide metal hold down straps with Two (2) 5/16" x 3/4" self tapping sheet metal screws (186 # shear ea.) at each end of each strap. Anchor one end of strapping to Middle of I beam web and attach to unit
 - 2].....Use Four (4) 22 gauge x 1.82" wide metal hold down straps with Two (2) 5/16" x 3/4" self tapping sheet metal screws (186 # shear ea.) at each end of each strap. Anchor one end of strapping to Top of I beam and attach to unit
 - 3].....Use Four (4) # 12 x 3/4" Long self tapping metal screws to attach unit to I Beam in each corner thru base of unit to I Beam.
 - 4]..... Use Four (4) 16 gauge Angles (1 1/2 x 4 inch) to attach unit to I Beam at each corner. In each corner use Two (2) 5/16 x 3/4" self tapping sheet metal screws to attach to I beam & two to attach to unit.

Anchoring Detail Anchor the legs to the roof, comply with above recommendation for proper installation.
 Load For each leg length up to 16" height. 1208 lb. For each leg length between 16" & 24". 1039 lb.

Steel Joists A] (One) 1/2" x 5 - 7" J- bolt or 1/2" threaded rod with 3/8 2x4 plates , (Two) with 1/4 4x6 plates
 B] (Four) 12-24 x 1/2" "Teks Self Drilling Fasteners

Wood joists D] (One) 3/8 x 5" Lag Bolt w/ washer with 3/8 2x4 plate or (Two) 3/8 x 5" Lag Bolt w/ washer with 1/4 4x6 plates

Concrete Deck C] (One) 3/8x3 1/2" Wedge Anchor
 E] (Four) 1/4 x 3 1/2" Hammer Loc Anchors or Mushroom Spike Anchors
 F] (Two) 3/8 x 3 1/2" Wedge Anchor