

Installation, Operation and Maintenance Manual

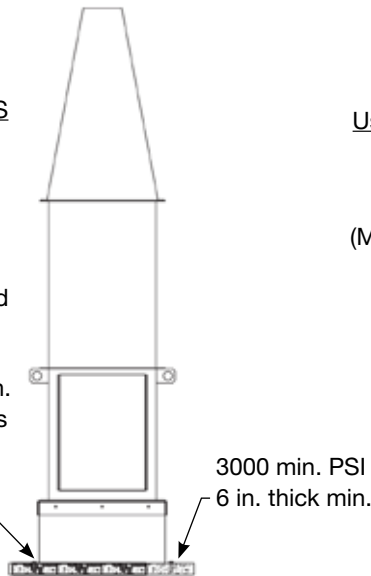
Please read and save these instructions for future reference. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with these instructions will result in voiding of the product warranty and may result in personal injury and/or property damage.

Installation methods for Greenheck Vektor-H and Vektor-HS fans with Miami-Dade NOA Certification per NOA No. 24-0123.02

Must be installed with Greenheck model GPFHD curb.

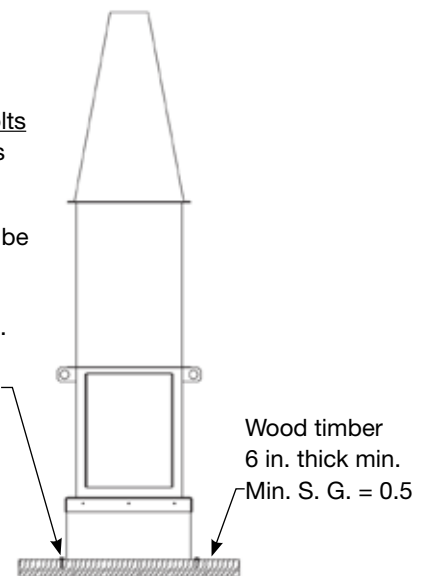
Concrete Deck Anchoring

Use 3/4 in. dia 300 Series SS
Hilti Kwik Bolt TZ2
Embedment: 4-1/2 in. min.
Spacing: per table shown
Edge distance: 6 in. min.
End distance: 12 in. min.
Assumed normal wt. cracked
concrete
f'c = 3 ksi min.
Concrete thickness: 6 in. min.
Concrete designed by others
**Install per manufacturer's
instructions**



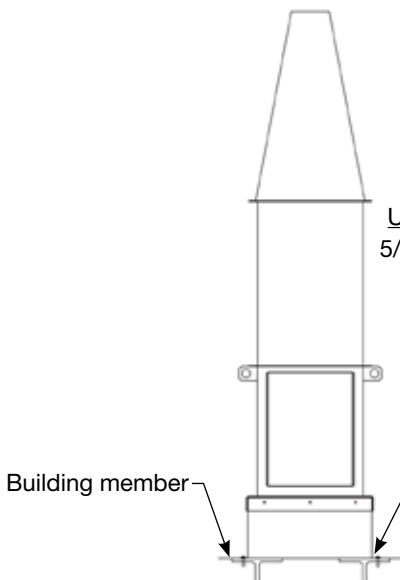
Timber Anchoring

Use 5/8 in. dia 316 SS Lag Bolts
(S.G.=0.50 MIN) = Pre-drill as
recommended
Penetration – 5-7/8 in.
(Min. of 3-7/8 in. of threads to be
engaged into the wood)
Spacing: per table shown
Edge distance: 2-1/2 in. min.
End distance: 4-3/8 in. min.
Wood designed by others



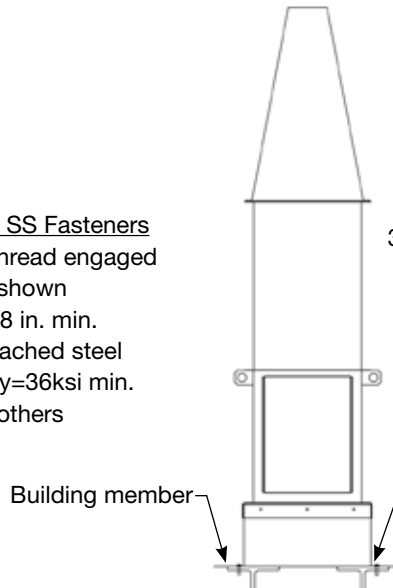
Steel Anchoring – Self Drill / Tap Fasteners

Use 5/16 in. dia 300 Series SS Fasteners
5/16-18 fasteners with full thread engaged
Spacing: per table shown
Edge/end distance: 5/8 in. min.
Assumed structurally attached steel
5/16 in. ASTMA36 steel Fy=36ksi min.
Steel designed by others



Steel Anchoring – Thru Bolts

Use 5/8 in. dia thru bolts
300 Series SS Cond. CW. Fy=65ksi
Spacing: per table shown
Edge distance: 1-1/4 in. min.
Assumed structurally attached
5/16 in. min. thick ASTMA36 steel
(Fy=36ksi min.)
Steel designed by others



*Fasteners installed per manufacturer's instructions.

Model	MINIMUM NUMBER OF FASTENERS PER SIDE TO ATTACH CURB TO STRUCTURE (excludes 4 corner fasteners) USE ONE 2 in. x 2 in. x 1/4 in. SQUARE WASHER UNDER ALL FASTENERS																		
	Concrete Deck Anchoring			Steel Anchoring Thru Bolts			Timber Anchoring			Steel Anchoring Self-Drill/Tap									
	1x1 or fan only	2x1	3x1	1x1 or fan only	2x1	3x1	1x1 or fan only	2x1	3x1	1x1 or fan only	2x1	3x1							
Vektor-H-9	4	9	14	2	5	8	5	10	16	7	13	20							
Vektor-H-10																			
Vektor-H-12																			
Vektor-H-13																			
Vektor-H-14		8	13				14	3	6				9	6	12	18	8	14	22
Vektor-H-16																			
Vektor-H-18																			
Vektor-H-20																			
Vektor-H-22	5	10	15	3	6	9	6	12	18	8	14	22							
Vektor-H-24																			
Vektor-H-30	6	12	18	3	7	11	8	14	22	9	17	26							

Curb Fasteners

Curb to be Greenheck model GPFHD.

