

- Haakon (HTS)
- Engineered Air
- Mafna (Applied Energy)
- Ventrol –Mammoth (EFI)

2.2 Materials

.1 Galvanized steel:

- .1 ASTM A-527 lock-former quality
- .2 ASTM A525-75 designation G90 class for unpainted surfaces,
- .3 satin coat steel for painted surfaces.

.2 Stainless Steel:

- .1 type 304/304L to ASTM A480 Specification for General Requirements for Flat Rolled Plate, Sheet and Strip

.3 Aluminum:

- .1 Type 3003-H-14,

.4 Insulation:

- .1 50mm (2") thick fibreglass 48 kg/m³ (3 lb/ft³) density, covered with neoprene].
- .2 50mm (2") Greenguard Certified – Zero Ozone Depletion injected polyurethane foam; RSI Value per 25mm thickness = 1.15 K·m²/W (R-Value per 1.0 in thickness = 6.5 hr.ft²°F/Btu)

2.3 Unit construction

.1 Structural Base

- .1 Units shall be constructed from a minimum C6x8.2 lb./sq.ft. channel structural steel perimeter base, with 2x2x1/4 intermediate structural steel channel and angle iron supports. Perimeter structural steel base shall be designed to directly support the weight of the walls. Intermediate structural steel and angle iron shall support the weight of all internal components (i.e. fans, coils, enthalpy wheels, etc.). Maximum base deflection shall be ¼ inch on unsupported spans of 12 ft. Structural steel base shall be designed so that it can be point loaded or set on an unlevel surface and shimmed by the contractor within 12 foot spans without deflecting more than ¼ inch. The structural steel base shall be either I-beam construction or C-channel (not box channel) so that the base will shed all water. Base shall be provided with lifting lugs, minimum four (4) per shipping split. Formed metal bases formed from sheet metal will not be acceptable. Base shall prevent wall panel joints from separating during lifting, transportation and rigging.

.2 Floor:

- .1 A 0.12" thick aluminum checker plate floor shall be installed on the base. Floor seams shall be continuously welded providing a completely flat unit floor. A 1-1/2" perimeter collar shall be provided to ensure the unit is internally watertight. The collar shall be alternately screwed down and tack welded to the unit base on one (1) foot centers. Caulk joint to be watertight. The base shall be insulated with 3" thick, 1-1/2 lb. density fibreglass insulation and sheeted with a 22 gauge galvanized steel liner. The base liner shall be broken, tack welded and sealed for rigidity and vapour barrier integrity.

.3 Wall and roof construction: