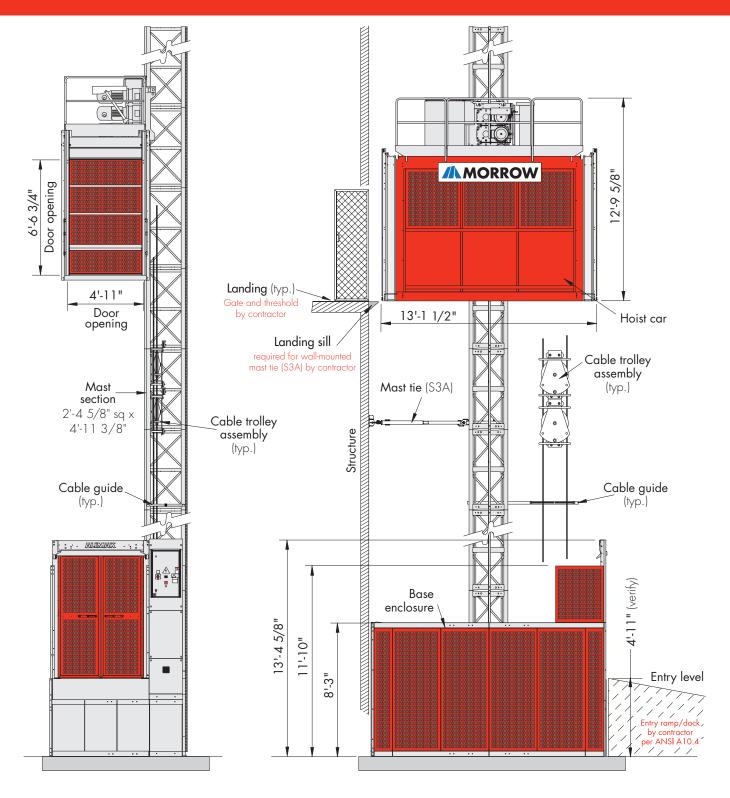
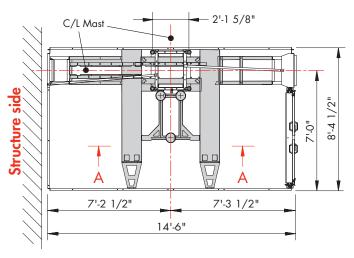
Alimak FC 6800-12 HS

Model 650 FC-S 31/39 Hi-Speed Single Car Construction Hoist

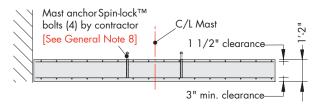




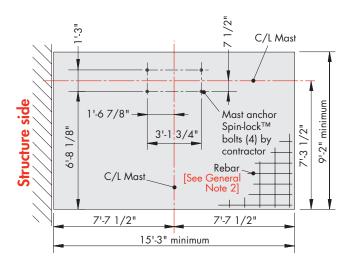
Foundation Details



Plan ViewSingle base enclosure

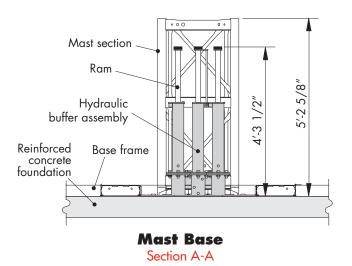


Elevation (Concrete footing)



Plan ViewConcrete footing

IMPORTANT: Verify that the use of a slab foundation conforms to all applicable federal, state and local standards and codes PRIOR to foundation installation.

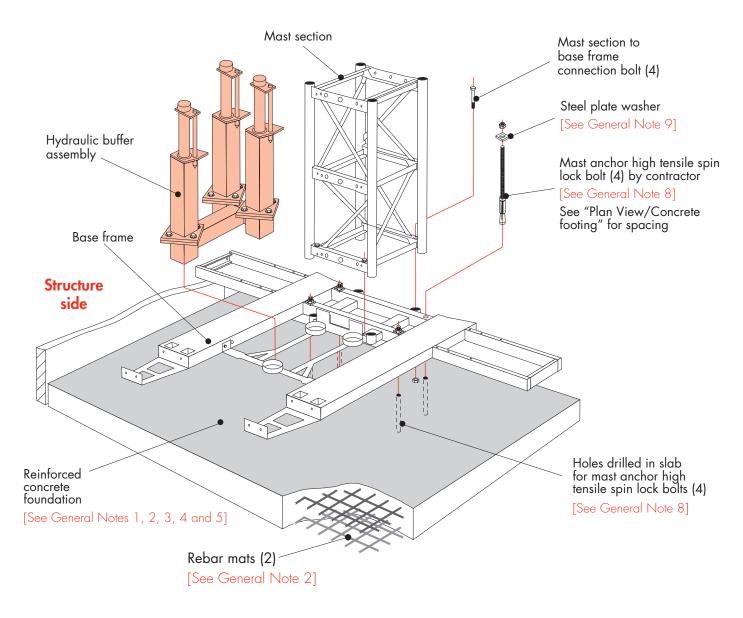


GENERAL NOTES

- 1. Foundation: 15'-3" \times 9'-2" \times 1'-2" with 3,625 psi concrete at 28 days.
- 2. Rebar: #5 ASTM A615-60. Top mat: 10" o.c. each way. Bottom mat: 10" o.c. width way and 7" o.c. length way. (See details in operations manual.)
- 3. Foundation based on 490-foot mast height. For greater heights, contact Morrow engineering department.
- 4. Foundation designed for minimum soil bearing of 1,000 psf.
- Alternative pit foundation available. Contact Morrow for information.
- Refer to the manufacturer's manual before installing, operating, servicing, repairing, jumping or dismantling hoist.
- 7. For specific information including dimensions, forces or alternative configurations, contact Morrow engineering.
- 8. 3/4" x 17" WilliamsTM High Tensile Spin-Lock Anchor Bolt and nut assembly. (R1SO6C14 Head assembly with ASTM A109/C1045 bolt and nut) or approved equivalent. Bolt by contractor. Install according to bolt manufacturer's requirements. Drill holes 1 3/4-in diameter allowing for 11" embedment. Bolt is also available through Morrow upon request. R1S-type anchor bolts not intended for use at extreme cold temperatures.
- 1/2" x 3" x 3" sq. washer ASTM A36 steel plate by contractor. Washer also available from Morrow upon request. Drill hole = 13/16" dia. at centerline.
- This datasheet contains information for "typical" FC 6800-12
 HS installation. Contact Morrow for additional information.



Foundation Details



Note: Distance from building face to center of mast depends on the type of mast tie installed. Alternate anchoring methods available. Refer to Manual or contact Morrow Equipment for information.

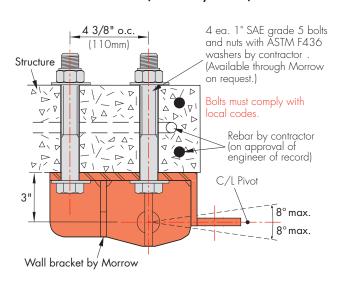
Note: Hoist cars are equipped with doors at each end. An optional side door with a 10'-6" x 6'-7" opening is available.

Foundation View

Typical Single Car Installation



Tie Details (S3A System) • slab mounted



Structure 8'-1 1/8" max 7'-5 1/4" min 1'-6 3/8" Pivot Anchor bolt (4) Mast tie frame Mast

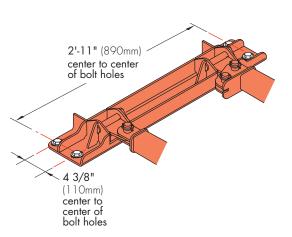
Mast Tie Assembly

Plan view

Mast Tie Connection

Slab mounted – Side view Bottom attachment type **Note:** Mast tie assemblies may be installed between $\pm 8^{\circ}$ from the horizontal.

Important: An additional 3" in mast tie length is added when using a wall-mounted tie connection.



Slab Bracket

Typical – Isometric views

Reinforced concrete foundation

Mast tie

Power cable guide

Base enclosure

C/L Mast

Power cable guide

13'-1 1/2"

Power cable guide

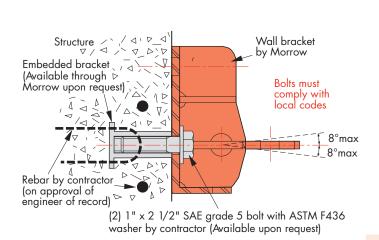
2'-9"

IMPORTANT: ANSI A10.4 11.3 specifies a 1/2" (min.) to 2 1/2" (max.) clearance between car platform sill and landing sill. Verify before installing to assure compliance with applicable standards, codes and regulations.

Plan View



Tie Details (S3A System) • wall mounted



Structure 8'-4 1/8" max 7'-8 1/4" min 1'-6 3/8" C/L Pivot Wall bracket Pivot Anchor bolt (2) Mast Tie Assembly

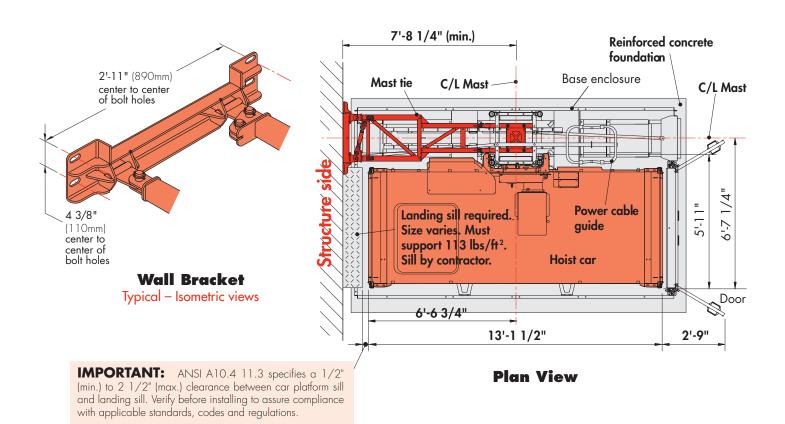
Plan view

Note: Mast tie assemblies may be installed between ±8° from the horizontal.

Important: A reduction of 3" in mast tie length is made when using a slab-

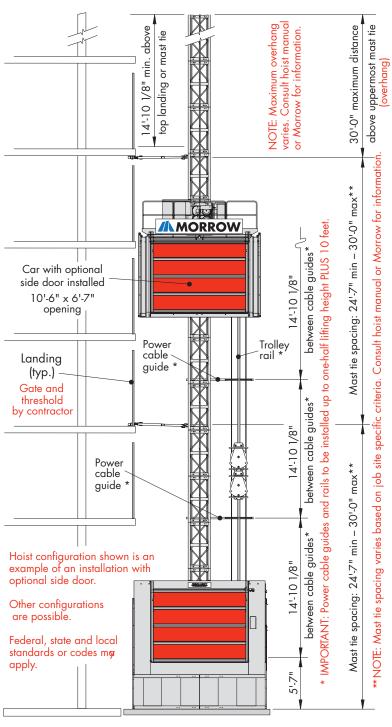
Mast Tie Connection

Face mounted – Side view Wall attachment type



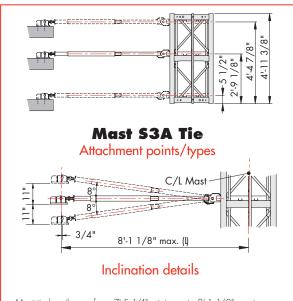
mounted tie connection.

Tie-in Details

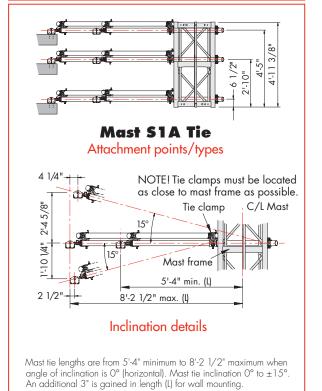


NOTE: Engineer of record to verify that slab/wall is adequate for anchor forces

Maximum mast tie spacing is based on ANSI A10.4.

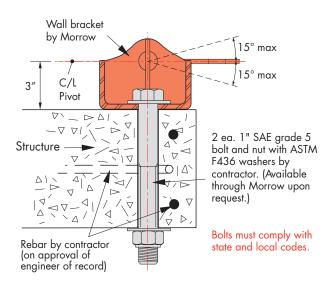


Mast tie lengths are from 7'-5 1/4" minimum to 8'-1 1/8" maximum when angle of inclination is 0° (horizontal). Mast tie inclination 0° to \pm 8°. Angles greater than 8° will cause interference with tie-in and car. Tie length adjustments are in 2" (50mm) increments. An additional 3" is gained in length (L) for wall mounting.



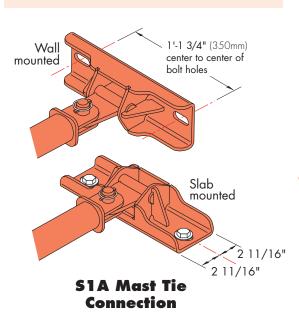


Tie Details (S1A System)

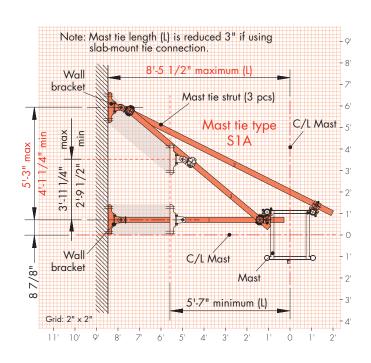


S1A Tie-in BracketTypical – Slab mount position

Note: S1A system mast tie assemblies may be installed between $\pm 15^{\circ}$ from the horizontal.



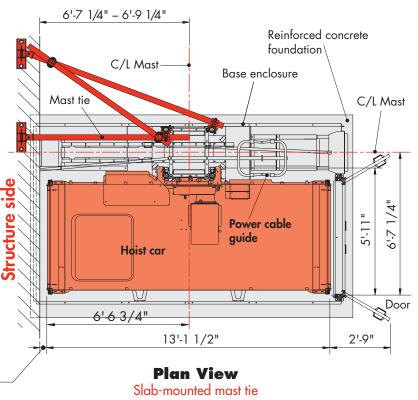
IMPORTANT: ANSI A10.4 11.3 specifies a 1/2" (min.) to 2 1/2" (max.) clearance between car platform sill and landing sill. Verify before installing to assure compliance with applicable standards, codes and regulations.



S1A Mast Tie Assembly

Plan view

[See General Note 7]





SPECIFICATIONS

GENERAL

Max. load capacity	6,835 lbs
Car inside dimensions (approx.).	12'-9" x 4'-11" x 7'-6 1/2"
Door opening	6'-6 3/4" × 4'-10 3/4"
Mast section length	4'-11 3/8"
Speed	0 - 328 fpm
Motors (VFD)	3 x 30 hp
Power requirement 1	480 Volt - 3 phase - 60 Hz

Max. height on standard masts	.660'
Max. freestanding mast height ²	.30'- 0"
Maximum mast overhang ³	.30'- 0"
Maximum mast tie spacing ³	.30'- 0"
Minimum mast tie spacing	.24'- 7"
Power supply fuses	.200 Amps
Starting current	.185 Amps
Power consumption	.115 kVA

^{1 480} V phase-phase, 277 V each phase to ground with 120° phase shift between phases. 3-phase, 60 Hz power supply plus ground wire. **Do not use Open-Delta supply**. 2 Requires use of an embedded foundation frame in lieu of mast anchor expansion bolts. See operation manual or contact Morrow engineering for specific information.

WEIGHTS

Base enclosure (without car or motor)2,340 lbs	Hoist car (without motorpack)3,610 lbs ea.
Base enclosure (with car & motor)	Mast section (single rack)254 lbs ea.
Motorpack (3 × 30 hp) (with panel) 2,650 lbs	Mast section (double rack)298 lbs ea.

SAFETY FEATURES

- Electronic and mechanical door interlocks on hoist car and base enclosure doors.
- Automatic stop and final limit switches limit hoist car travel when reaching end positions.
- Main "ON/OFF" switch lockable to prevent unauthorized operation.
- Hydraulic buffers.
- NO counterweights required.

KEY FEATURES

- · Hi-speed capability provides increased productivity delivering personnel and material more quickly.
- Equipped with highly efficient variable frequency drives for smooth, economical and dependable operation.
- Mast sections can be added without special equipment.
- Modular design facilitates ease of transport, erection and dismantlement.
- Recessed stainless steel control panel.
- ALC-II collective control system internal fault diagnostics system.
- A3 remote diagnostics system offers advantage of continuous and prompt service support.

IMPORTANT: Refer to manufacturer's manual before installing, operating, servicing, repairing, jumping or dismantling hoist. This datasheet contains general information for a "typical" FC 6800-12 HS (650 FC-S 31/39) Hi-Speed single car installation. For dimensions, reaction forces, mast tie locations, alternate configurations and special applications, contact Morrow Equipment.

Specifications and equipment shown are subject to modification without prior notification. This product and its components must be used in a safe manner, in conformity with manufacturer's specifications and in compliance with all applicable standards, codes, regulations, etc.









³ Overhang and mast tie spacing figures vary. See operation manual or contact Morrow engineering for specific information.