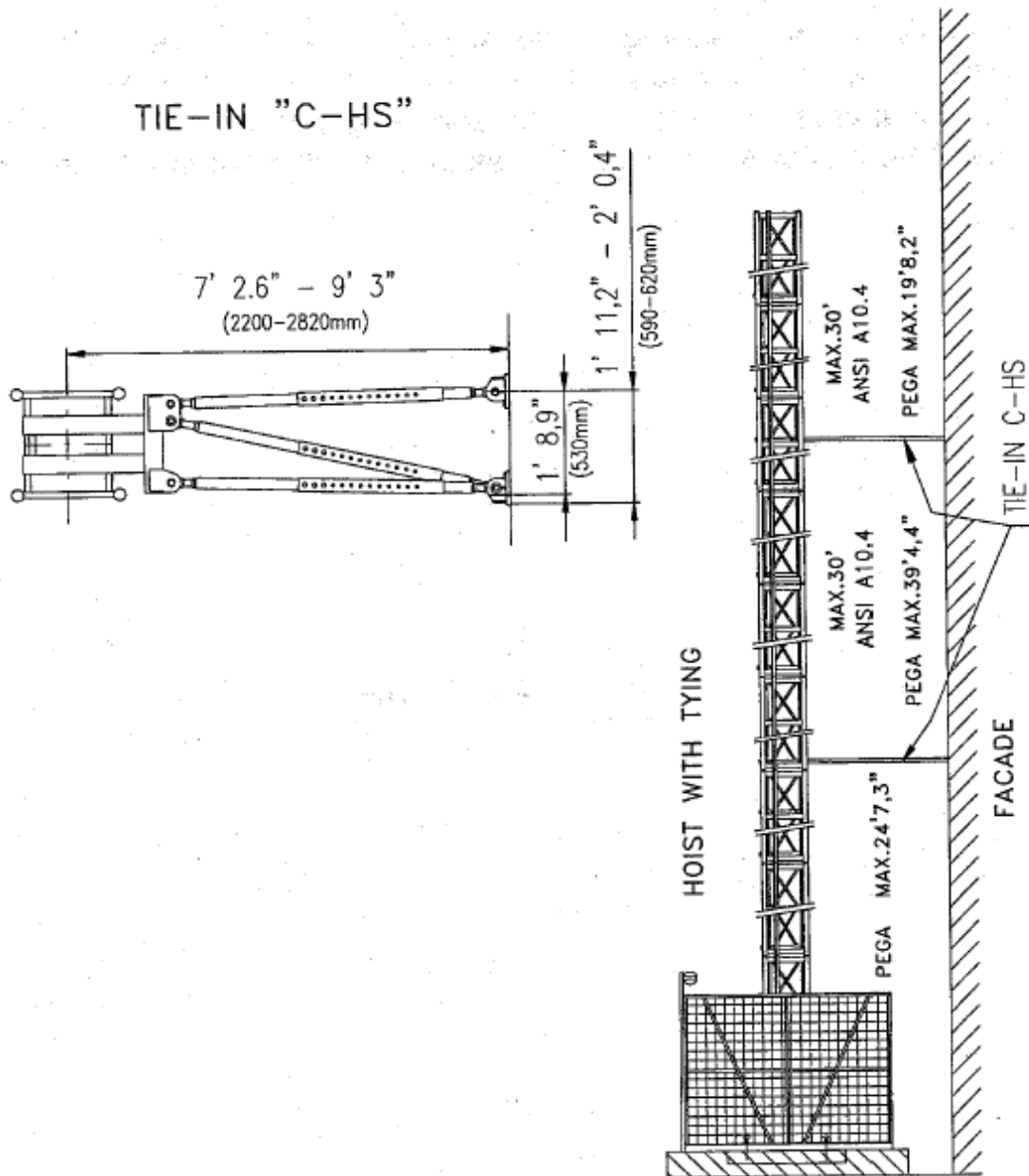


SKETCH OF MAST TIES

PEGA 2737 TD VFC HS (MAST 76/6,3+)
WITH THE WALL TIE C-HS



REMARKS: WALL TIE DISTANCE FOR ANSI IS MAX. 30 FT.
FOR PEGA MFG. CALCULATIONS CAN BE MAX. 39' 4".



B1

Rack and pinion passengers/goods hoist

Without counterweight – single or twin operation

PEGA 2740 TD VFC HS

TECHNICAL DATA

CAPACITY

Payload capacity	6000lb
Passengers	34
Erection load	2200lb
Speed	0 – 295ft/min
Rated lifting height	656ft
Other lifting height on request	
Maximum tie spacing	39ft

DIMENSION

Internal width x length	4'11.1" x 13'1.5"
Internal minimum height	8'2"
Door opening w x h (A & B)	4'8" x 6'6.7"
Mast section length	4'11 3/8"

ELECTRICAL DATA

Power supply	460V 3Ph 60Hz
Power supply fuses	160 A
Rated power	75 kW
Starting current	175 A
Running current	148 A
Power consumption	80 kVA

WEIGHTS

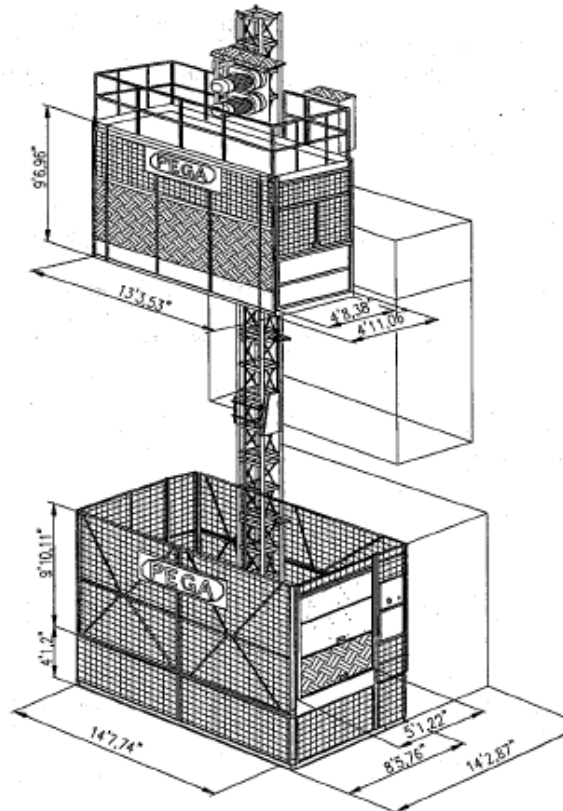
Base unit and enclosure	9900lb
Car weight	6350lb
Mast section with 1 rack	331lb
Mast section with 2 racks	386lb

CONTROL SYSTEM

Joystick control

General:

All lifts are equipped with frequency controlled drives and programmable control systems.
Variety of optional equipment.
Different mast and tie systems meet all kind of application demands.
Car and landing doors either manual or automatic.
Door installations in different positions and combinations.



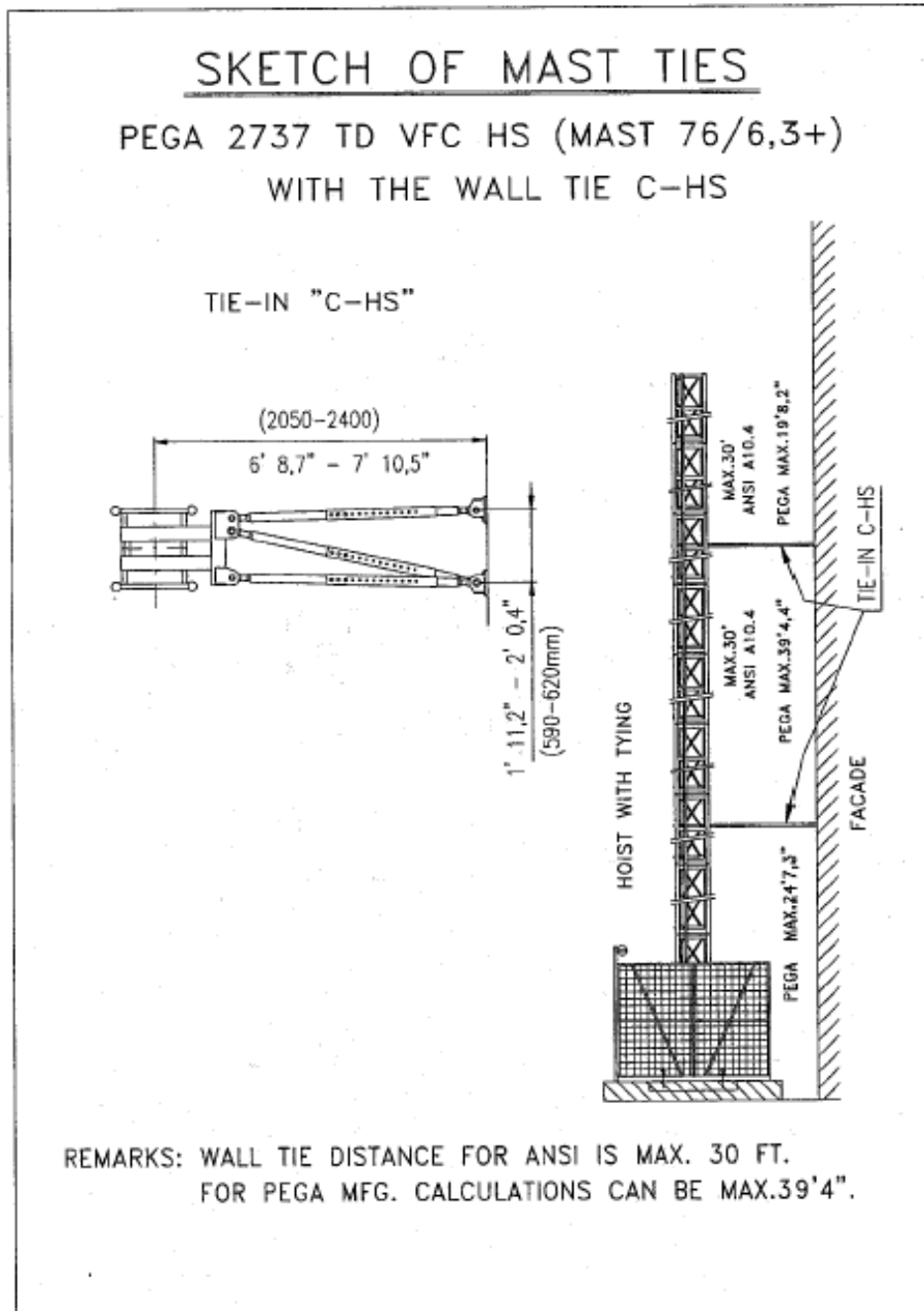
CONSULT – RENT – SALE – SERVICE

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Local representative:

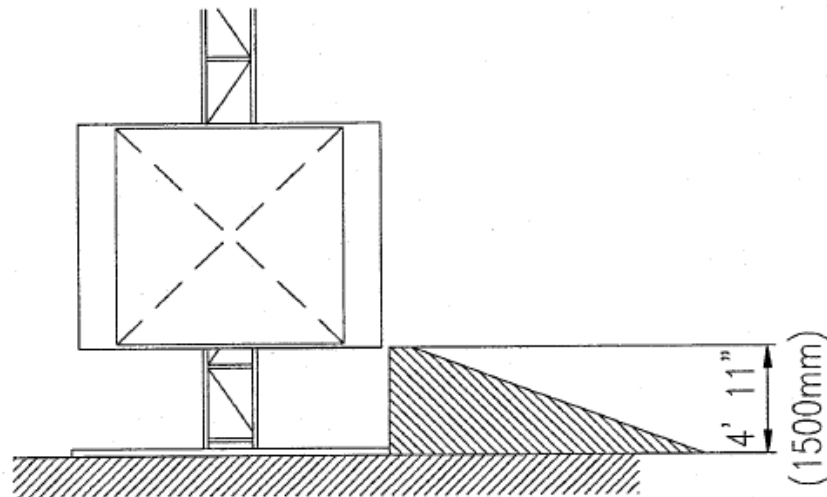
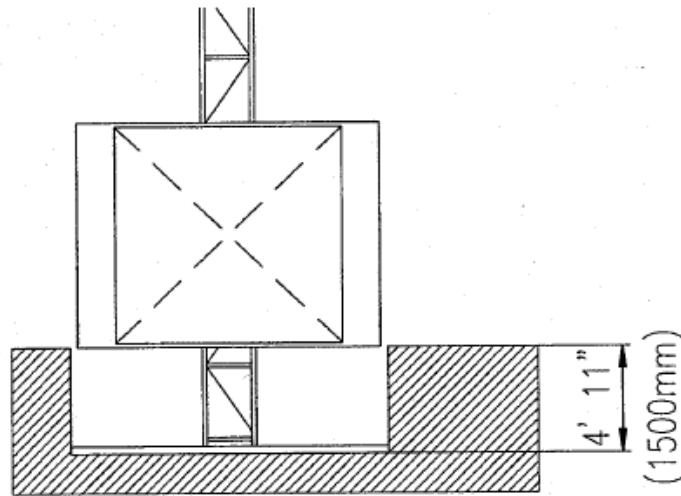
MAXIMUM LIFTING HEIGHT, TIE DISTANCE AND TOP OVERHANG

Operation of the hoist with mast not properly attached is not allowed.



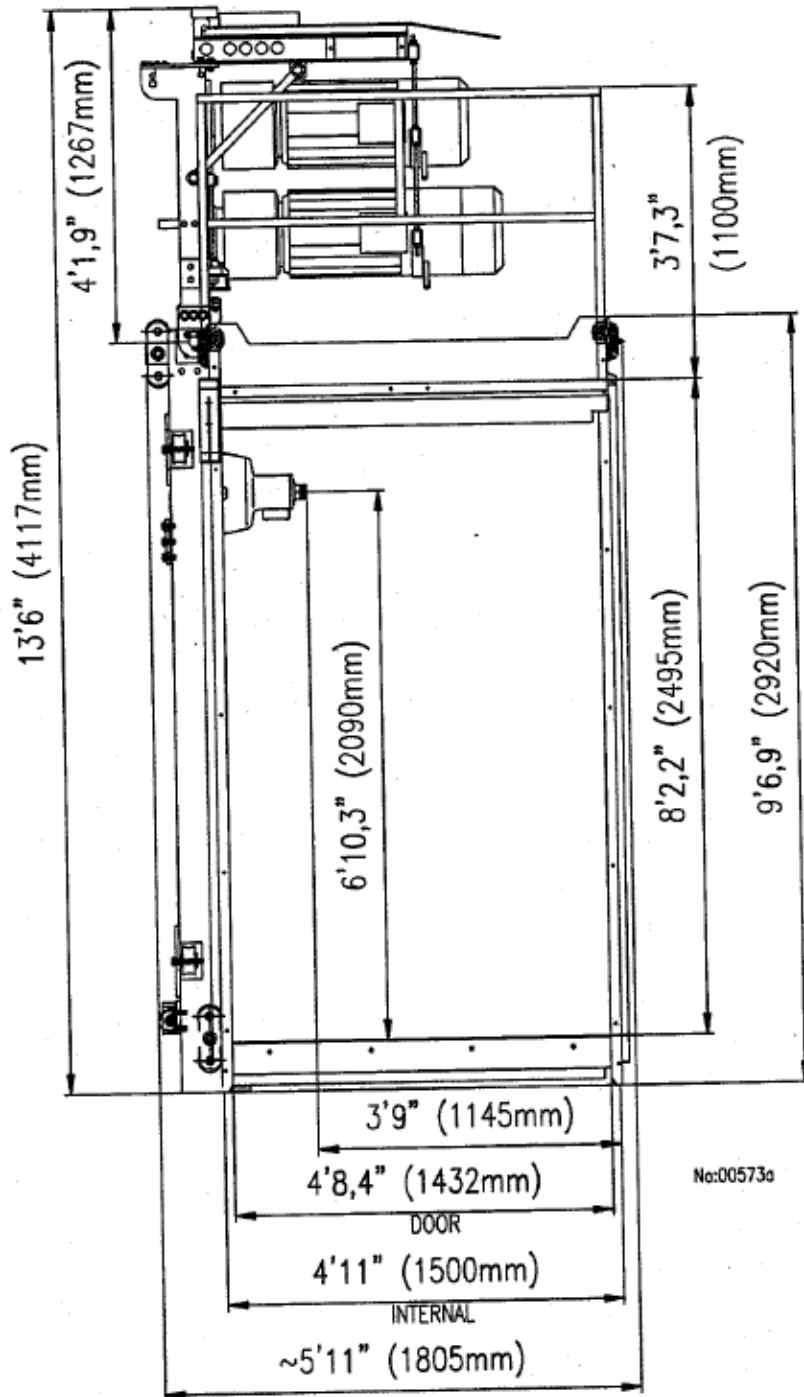
HEIGHT FROM THE GROUND TO THE CAR FLOOR
AT THE BASE LEVEL

**For PEGA 2032 TD HS, 2445 TD HS, 2737 TD HS,
2740 TD HS, 2740 TD LS, 2832 TD HS, 3240 SUPER HS, 2032 TD LS**



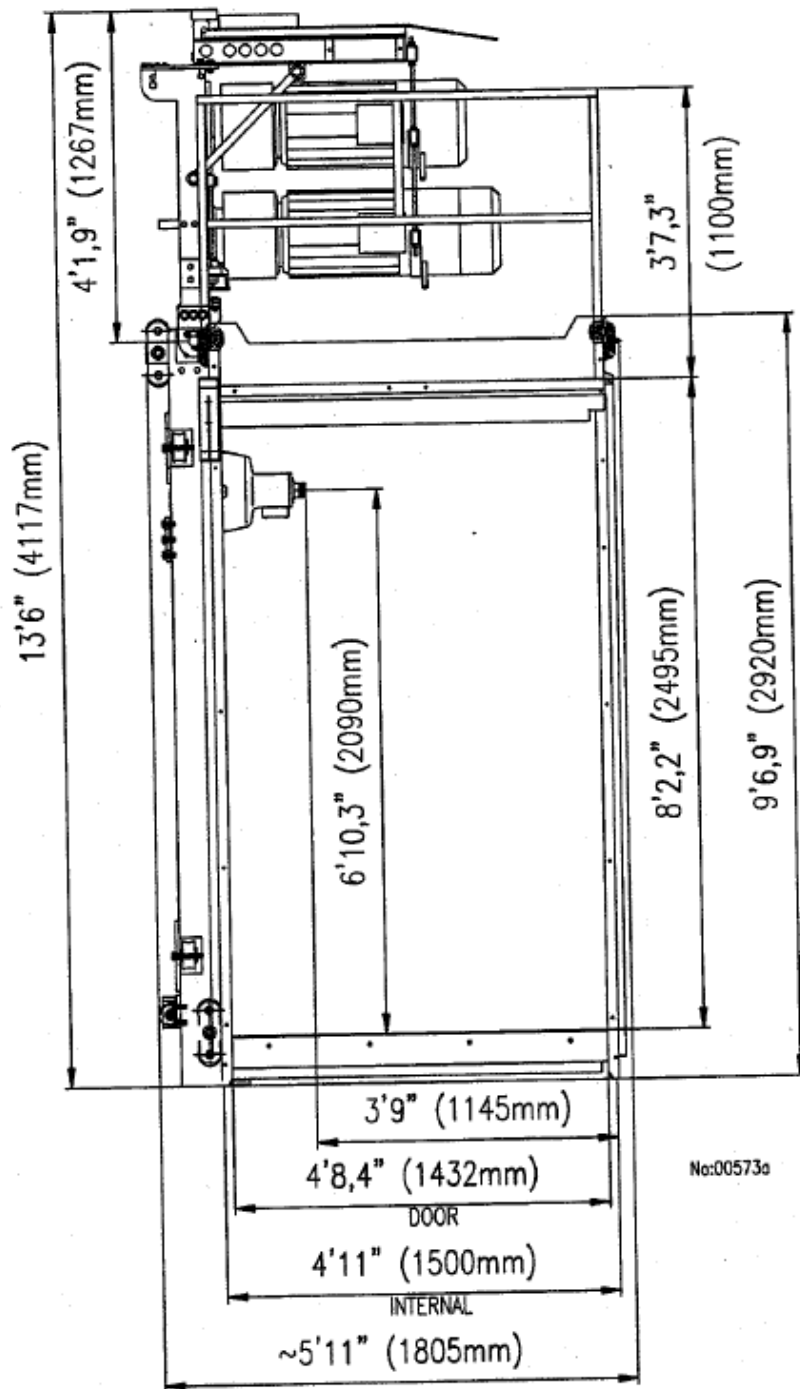
HEIGHT & WIDTH DIMENSIONS OF THE HOIST CAR

PEGA 2740 VFC TD HS
(car dimensions 4'11" x 13'1")



HEIGHT & WIDTH DIMENSIONS OF THE HOIST CAR

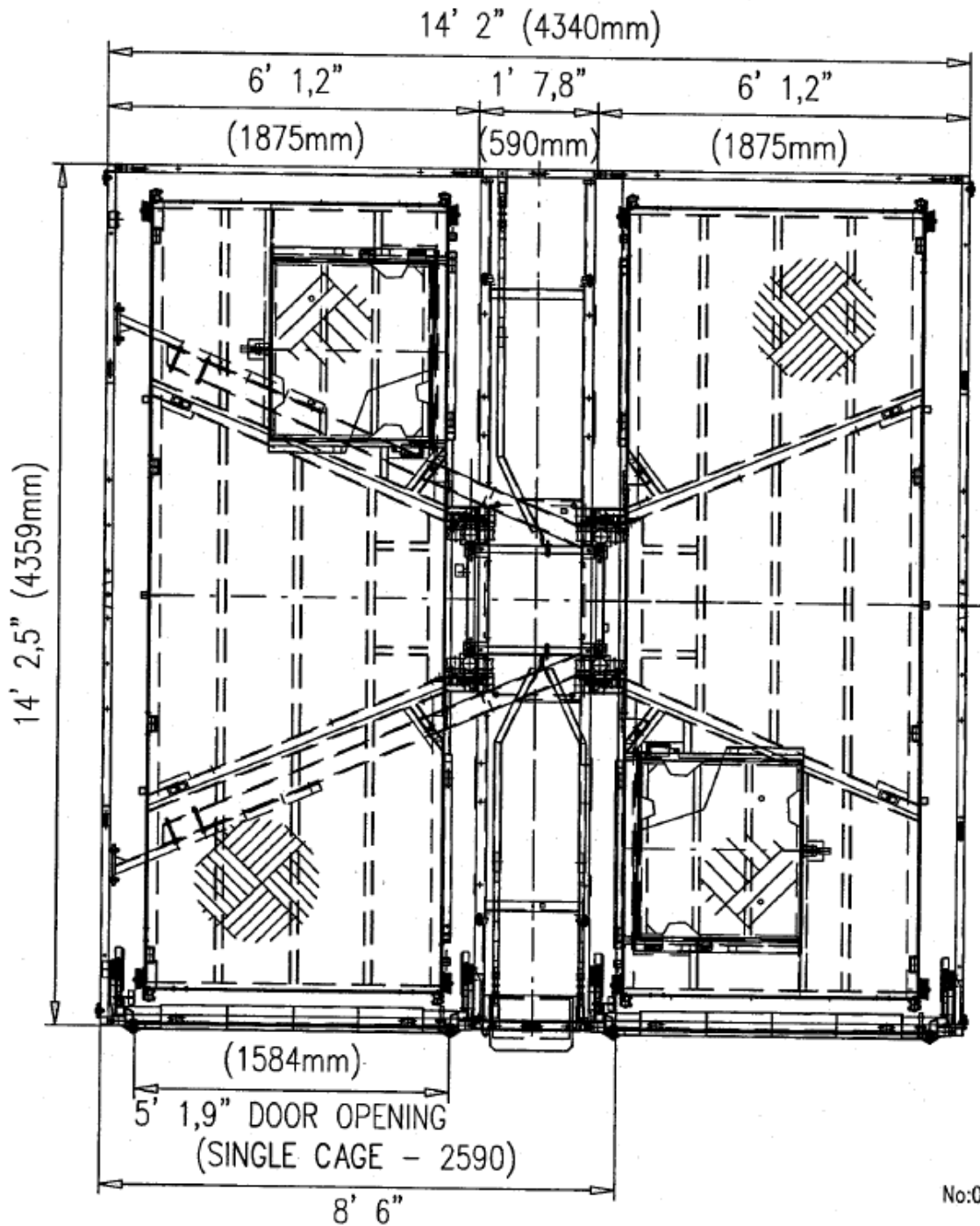
PEGA 2740 VFC TD HS
(car dimensions 4'11" x 13'1")



MINIMUM AREA REQUIRED FOR INSTALLATION

Outside dimensions of ground enclosure

PEGA 2740 VFC TD LS 4'11" x 13'1" (car 1.5 x 4.0m)



No:01134

GROUND LOAD PRESSURE

Load calibre of the hoist footing bottom calculate by the calibre installation into the following figure:

$$P = \frac{10 \cdot (M_1 + M_2) + 1200 \cdot h}{(0,7 + 2 t)^2}$$

M_1 – weight of the first hoist car (single) inclusive load (kg)
 M_2 – weight of the second hoist car (dual) inclusive load (kg)
 h – mast height (m)
 t – basic plate thickness (m)

Examples of the weight and capacity sum M for these hoists:

PEGA 1230 (car 1,5 x 3 m) = 3 300 kg
PEGA 1232 (car 1,5 x 3,2 m) = 3 400 kg
PEGA 2030 (car 1,5 x 3 m) = 4 250 kg
PEGA 2032 (car 1,5 x 3,2 m) = 4 350 kg
PEGA 2737 (car 1,5 x 3,7 m) = 5 500 kg
PEGA 2037 (car 2 x 3,7) = 5 250 kg
PEGA 2040 (car 1,7 x 4 m) = 5 100 kg
PEGA 2445 (car 1,7 x 4,5 m) = 5 800 kg
PEGA 2740 (car 4'11" x 13'1.4") = 5 700 kg (12 566 lb)
PEGA 3240 (car 1,7 x 4 m) = 6 900 kg
PEGA 12 ME (car 1,5 x 4 m) = 2 400 kg
PEGA 25 ME (car 1,5 x 4 m) = 3 900 kg

Calculating example:

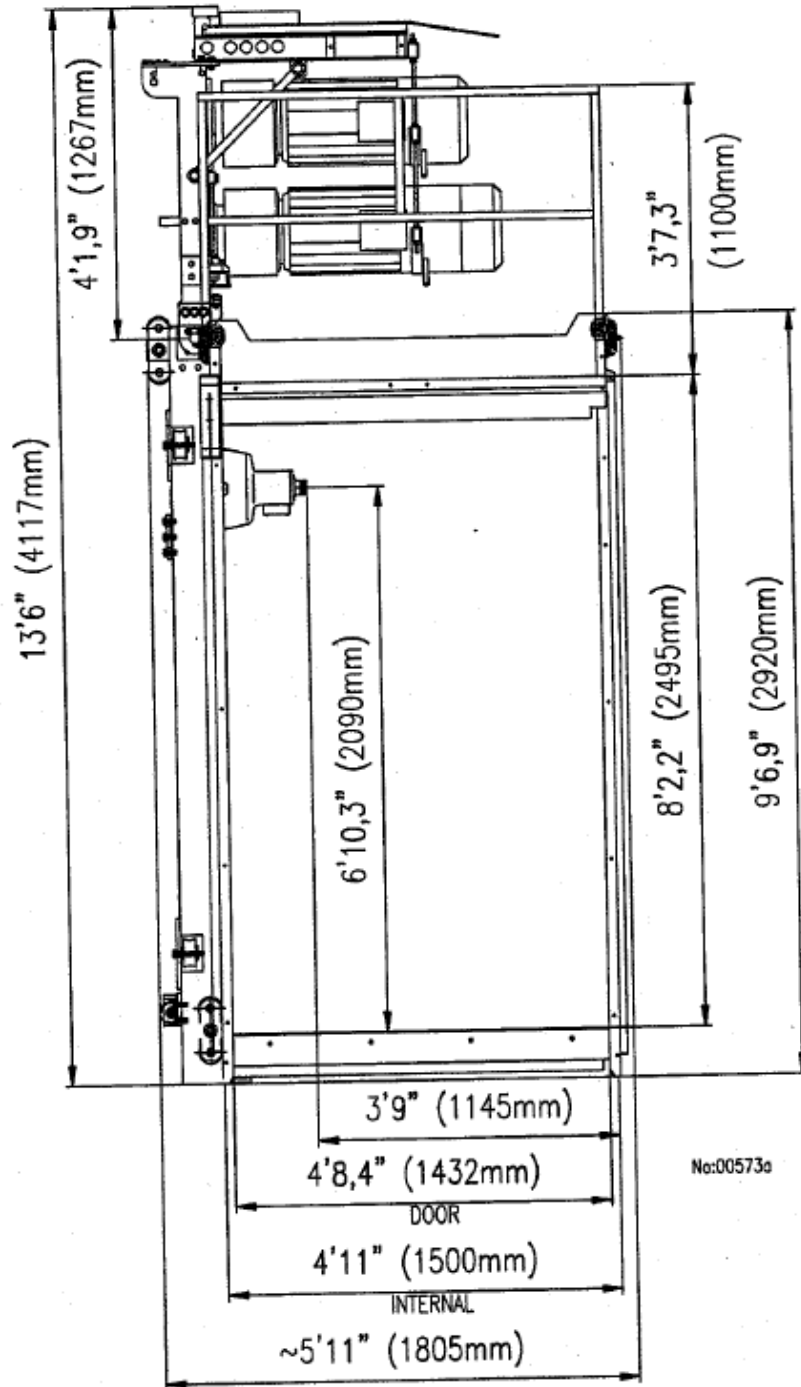
For the hoist PEGA 2040 DUAL together with hoist PEGA 25 ME, with mast height of 80 m, and basic plate thickness 250 mm:

$$P = \frac{10 \cdot (5\,100 + 3\,900) + 1\,200 \cdot 80}{(0,7 + 2 \cdot 0,25)^2} \quad [\text{Pa}]$$

Footing bottom load is 129 000 Pa = 0,129 MPa.

HEIGHT & WIDTH DIMENSIONS OF THE HOIST CAR

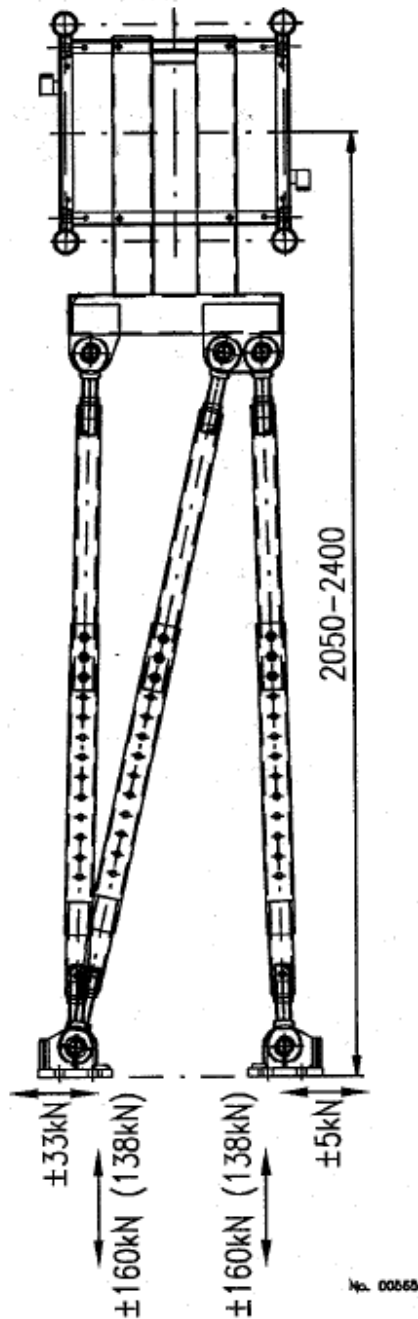
PEGA 2740 VFC TD HS
(car dimensions 4'11" x 13'1")



REACTION FORCE ON THE WALL

WALL TIE C-HS UNIVERSAL 2050 - 2400 FOR SINGLE AND TWIN APPLICATION

It's recommended that on every new job there is a professional calculation of the forces done for safety reasons.



ATTACHMENTS OF TIES

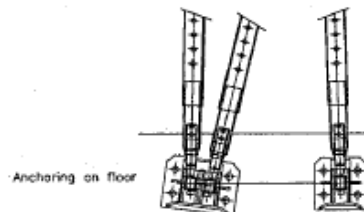
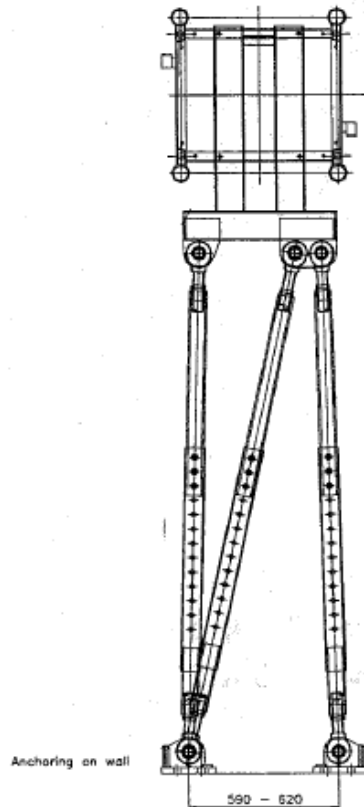
The ties are fixed to the building by bolts, washers and nuts into the holes which are drilled at the installation or to embedment sets or other approved suitable wall bracketed attachment.

Cast in place insert must be installed prior to the hoist installation in order for the concrete to cure properly and attend its proper strength. Concrete must be of suitable strength for calculated (See Reaction forces). Care must be taken in locating the inserts at their proper location (See type of mast tie).

If other type of bolt is used like expansion bolt or other it is important to choose an approved type which can take the calculated force in this application with a satisfactory safety factor.

Complete specifications for this kind of bolts can be given by manufacturer and approval for its use in this application by local authority.

Use of other attachments than PEGA specified is not allowed.





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 Fax: +420 466 536 351
 E-mail: info@pega-hoist.com

Job safety analysis – Hoist operation

Client: _____
Project: _____
Date: _____

PROJECT DETAILS:
Project name:
Site address:
Site contactor:
HOIST DETAILS:
Owner:
Owner Rep:
Make:
Year of manufacture:
Model:
Serial No.:
RISK CLASSIFICATIONS:
Minor: Damage to machinery
Low: Lost time injury
Moderate: Serious injury
High: Possible death/s

Activity No.	Task	No. of personnel	Hazard	Risk ranking	Prevention
	HOIST OPERATOR				
1.	All hoist operators must have a valid authorization to operate the hoist.				
	HOIST OPERATOR				
2.	Check condition and operation of all cable guides.		Personnel falling from height.	LOW	Handrail provide on lift car roof.
3.	Closing of car gate.		Injuries to hands/fingers awhile opening/ closing car doors.	LOW	Rubber buffers provided at the ends of the door.
4.	Heavy weights being lifted above hoist.		Crushing of personnel due to the objects falling on the car.	LOW	Lift to be shut down. After the people are evacuated, unit is safe to operate.



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Hoist S/N: _____
 Date: _____

Hoist S/N: _____ Date: _____ Type: _____

1. Sign plates, Manuals	<input type="checkbox"/>
2. Safety device	<input type="checkbox"/>
3. Gear box	<input type="checkbox"/>
4. Rollers & Hooks	<input type="checkbox"/>
5. Attachment bolts	<input type="checkbox"/>
6. Motor brakes	<input type="checkbox"/>
7. Hoist cables	<input type="checkbox"/>
8. Cable basket	<input type="checkbox"/>
9. Interlocks	<input type="checkbox"/>
10. Erection crane	<input type="checkbox"/>
11. Car floor & roof	<input type="checkbox"/>
12. Overrun protect.	<input type="checkbox"/>
13. Lubrication	<input type="checkbox"/>

1. Sign Plates, Manuals	All signs are in position and legible. Documentation in car is available.	<input type="checkbox"/>
2. Safety device	Check if tripping without cause or noisy. Check expiry date to ensure it is current.	<input type="checkbox"/>
3. Gear box	Check oil level and seals, refill if required.	<input type="checkbox"/>
4. Rollers & Hooks	Check that all bolt joints are tightened on rollers, counter and safety hooks.	<input type="checkbox"/>
5. Attachment bolts	Check that all bolt joints are tightened on machinery and safety device plates.	<input type="checkbox"/>
6. Motor brakes	Check if car stops within acceptable limits. Check play between armature & rotating disc.	<input type="checkbox"/>
7. Hoist cables	Check cables for wear, kinks and mounting.	<input type="checkbox"/>
8. Cable basket	Clean basket and check, if applicable.	<input type="checkbox"/>
9. Interlocks	Check function of all mech. & el. interlocks.	<input type="checkbox"/>
10. Erection crane	Check mech. and function of limit switch.	<input type="checkbox"/>
11. Car floor & roof	Clean car floor and roof, check for damage.	<input type="checkbox"/>
12. Overrun protect.	Clean & check device for correct operation.	<input type="checkbox"/>
13. Lubrication	Lubricate in accordance with instructions.	<input type="checkbox"/>

Name: _____
 Signed: _____

Completed by: _____
 Signed by: _____



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Keep this portion in logbook.

Hoist S/N: _____
 Date: _____

Hoist S/N: _____ Date: _____ Type: _____

1. Sign plates, Manuals	<input type="checkbox"/>	1. Sign Plates, Manuals	All signs are in position and legible.	<input type="checkbox"/>
2. Safety device	<input type="checkbox"/>	2. Safety device	Documentation in car is available.	<input type="checkbox"/>
3. Gear box	<input type="checkbox"/>	2. Safety device	Check if tripping without cause or noisy.	<input type="checkbox"/>
4. Rollers & Hooks	<input type="checkbox"/>	3. Gear box	Check expiry date to ensure it is current.	<input type="checkbox"/>
5. Attachment bolts	<input type="checkbox"/>	3. Gear box	Check oil level and seals, refill if required.	<input type="checkbox"/>
6. Motor brakes	<input type="checkbox"/>	4. Rollers & Hooks	Check that all bolt joints are tightened on rollers, counter and safety hooks.	<input type="checkbox"/>
7. Hoist cables	<input type="checkbox"/>	5. Attachment bolts	Check that all bolt joints are tightened on machinery and safety device plates.	<input type="checkbox"/>
8. Cable basket	<input type="checkbox"/>	6. Motor brakes	Check if car stops within acceptable limits.	<input type="checkbox"/>
9. Interlocks	<input type="checkbox"/>	6. Motor brakes	Check play between armature & rotating disc.	<input type="checkbox"/>
10. Erection crane	<input type="checkbox"/>	7. Hoist cables	Check cables for wear, kinks and mounting.	<input type="checkbox"/>
11. Car floor & roof	<input type="checkbox"/>	8. Cable basket	Clean basket and check if applicable.	<input type="checkbox"/>
12. Overrun protect.	<input type="checkbox"/>	9. Interlocks	Check function of all mech. & el. interlocks.	<input type="checkbox"/>
13. Lubrication	<input type="checkbox"/>	10. Erection crane	Check mech. and function of limit switch.	<input type="checkbox"/>
20. Lifting equipment	<input type="checkbox"/>	11. Car floor & roof	Clean car floor and roof, check for damage.	<input type="checkbox"/>
21. Hoist mast	<input type="checkbox"/>	12. Overrun protect.	Clean & check device for correct operation.	<input type="checkbox"/>
22. Mast ties	<input type="checkbox"/>	13. Lubrication	Lubricate in accordance with instructions.	<input type="checkbox"/>
23. Limit switches	<input type="checkbox"/>	20. Lifting equipment	Check lifting equipment.	<input type="checkbox"/>
24. Cable guides	<input type="checkbox"/>	21. Hoist mast	Visually check all rack and mast screw joints including fixing to the base frame and ground.	<input type="checkbox"/>
25. Cable trolley	<input type="checkbox"/>	22. Mast ties	Check bolt joints & fixings in all mast ties.	<input type="checkbox"/>
26. Base slab	<input type="checkbox"/>	23. Limit switches	Check attachment and function of all switches.	<input type="checkbox"/>
27. Gates on car	<input type="checkbox"/>	24. Cable guides	Check guides, attachment, function, install.	<input type="checkbox"/>
28. Buffers	<input type="checkbox"/>	25. Cable trolley	Check for operation, clearance and wear.	<input type="checkbox"/>
29. Signal & Lights	<input type="checkbox"/>	26. Base slab	Remove all trashes and clean.	<input type="checkbox"/>
30. Emergency light	<input type="checkbox"/>	27. Gates on car	Check function and wear on rollers and rope.	<input type="checkbox"/>
31. Rack and pinion	<input type="checkbox"/>	28. Buffers	Check if buffers are positioned and in a good conditions.	<input type="checkbox"/>
32. Guide roller	<input type="checkbox"/>	29. Signal and lights	Check operation of controls, alarm, light.	<input type="checkbox"/>
33. S/ device fixing	<input type="checkbox"/>	30. Emergency light	Ensure if emergency light functions.	<input type="checkbox"/>
34. Enclosure	<input type="checkbox"/>	31. Rack and pinion	Check wear on rack and pinion.	<input type="checkbox"/>
		32. Guide roller	Check wear, adjustment and tightened bolts.	<input type="checkbox"/>
		33. S/device fixing	Ensure that device plate is against top mounting.	<input type="checkbox"/>
		34. Enclosure	Check if enclosure is safe and complete.	<input type="checkbox"/>

Name: _____
 Signed: _____

Completed by: _____
 Signed by: _____

Keep this portion in logbook ↑ ↑ This portion to be removed and held by hoist owner