stravimech
by CDM Stravitec

Company:

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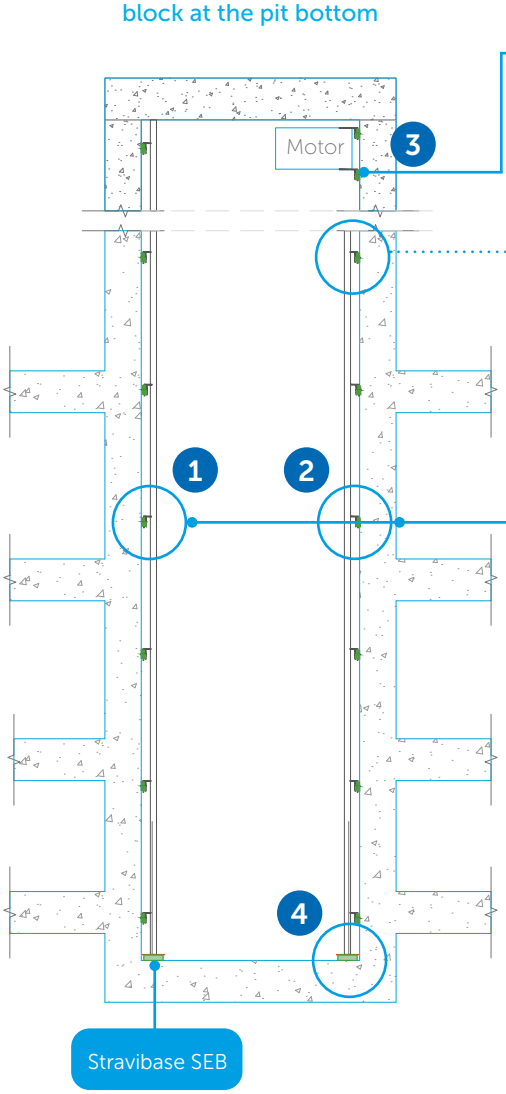
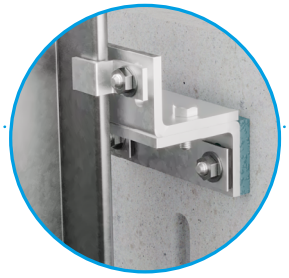
Project name:

Submittal Document
Stravimech ElevatorFix

ELEVATOR SHAFT ISOLATION REQUIREMENTS

Typical section WITHOUT inertia block at the pit bottom

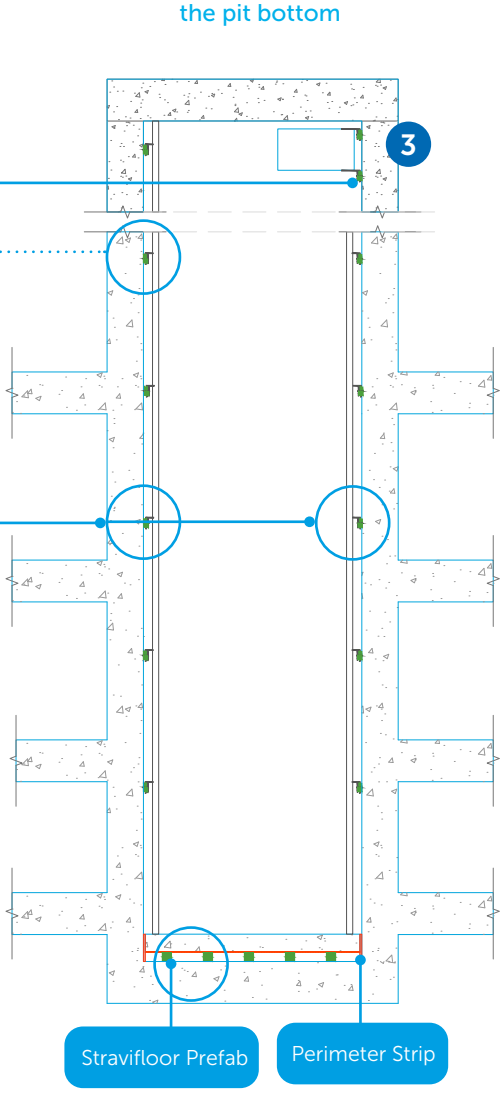




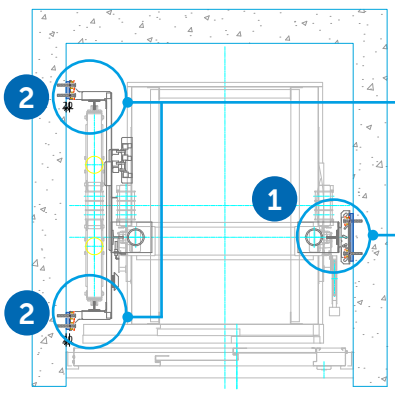
Stravimech ElevatorFix motor fixation

Stravimech ElevatorFix for decoupling of guiding rails

Typical section WITH inertia block at the pit bottom



Typical sectional view of the elevator car in the shaft



Stravimech ElevatorFix fixation decoupling (counterweight)

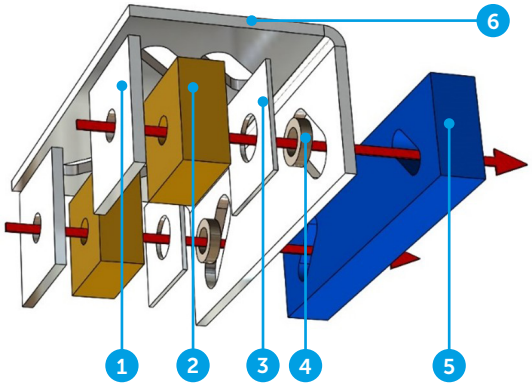
Stravimech ElevatorFix fixation decoupling (cabin)

Table of Contents

CONFIGURATION STRAVIMECH ELEVATORFIX

Composition of a Stravimech ElevatorFix set:

1. Top steel plate
2. Stabilizer
3. Bottom steel plate
4. Elastomeric sleeve
5. Isolator
6. Fixation (fournie par le client)

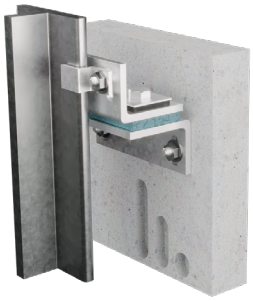


Guide fixations 1 and 2 can be decoupled in two ways. Indicate the prefered way below.

Decoupling type:

☐ Wall-Bracket

☐ Bracket-Bracket*



* Load capacity limited to 1 kN/bolt

Maximum allowable deflection of the system under service load:

_____ mm

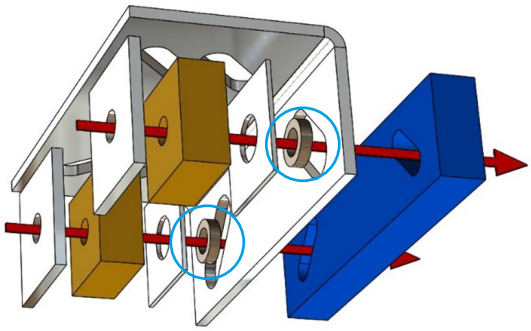
General Note

Enlargement of holes in the various brackets

The elastomeric sleeve ensures the decoupling of the bolt. It must be placed inside the holes of the rail bracket, which requires these holes to be enlarged.

Below you will find the minimum diameters required according to the threaded rod metric:

Bolt	Hole Diameter
M8	14 mm
M10	16 mm
M12	20 mm
M16	24 mm



CABIN + COUNTERWEIGHT GUIDE FIXATIONS (COMBI)

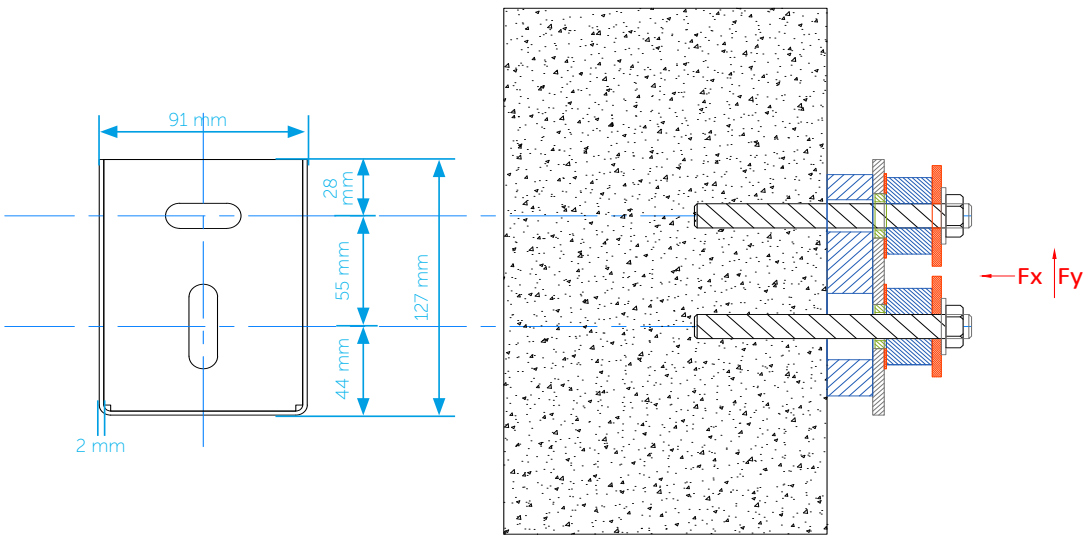
TYPE 1

Number of Fixations

	Nominal Loads	Emergency Loads	
Fx=			kN
Fy=			kN

Axial Load kN

L=		mm	eg. 127 mm
W=		mm	eg. 91 mm
e=		mm	eg. 55 mm
Number of Bolts		units	eg. 2
Bolt Size =			eg. M12
Metal Thickness =		mm	eg. 2 mm



Note

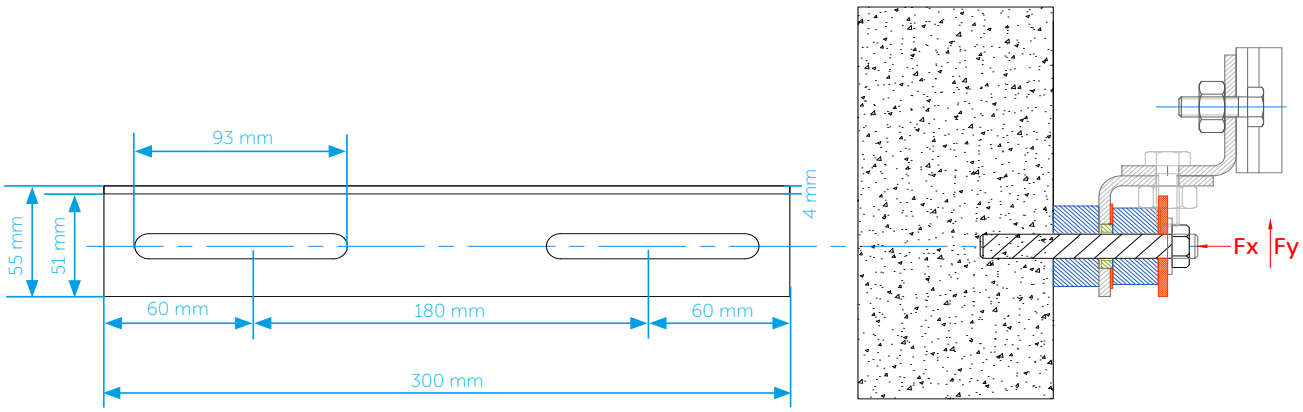
CABIN GUIDE FIXATIONS (SINGLE)

TYPE 2

	Number of Fixations

	Nominal Loads	Emergency Loads	
Fx=			kN
Fy=			kN
Axial Load			kN

L=		mm	eg. 300 mm
W=		mm	eg. 50 mm
e=		mm	eg. 180 mm
Number of Bolts		units	eg. 2
Taille des Boulons =			eg. M12
Metal Thickness =		mm	eg. 4 mm



Note

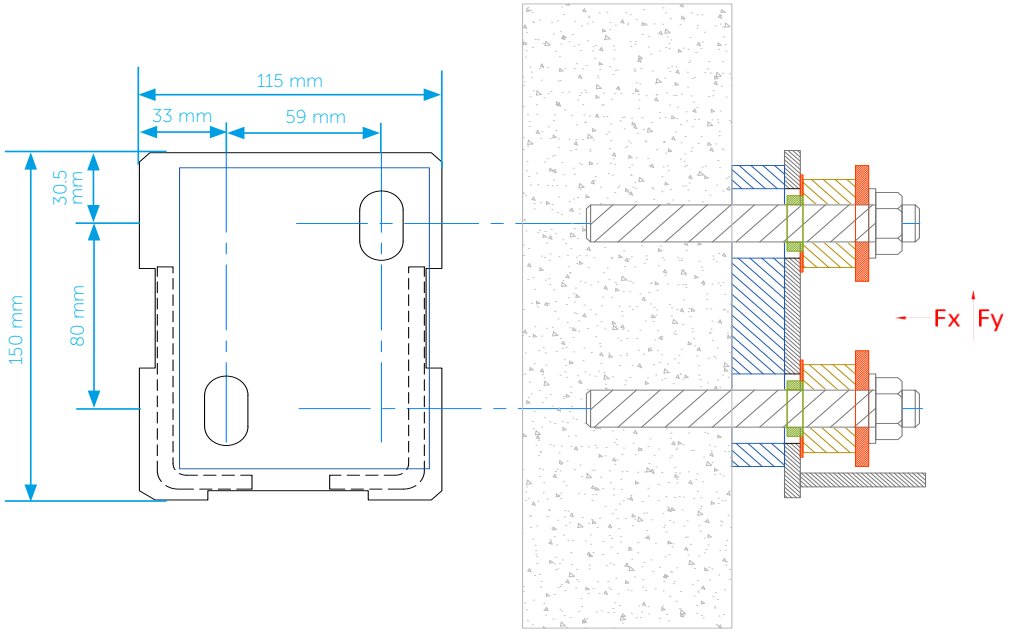
MOTOR FIXATIONS

TYPE 3

	Number of Fixations

	Nominal Loads	Emergency Loads	
Fx=			kN
Fy=			kN
Axial Load			kN

L=		mm	eg. 150 mm
W=		mm	eg. 115 mm
e=		mm	eg. 2 mm
Number of Bolts		units	eg. 2
Bolt Size=			eg. M12
Metal Thickness =		mm	eg. 5 mm

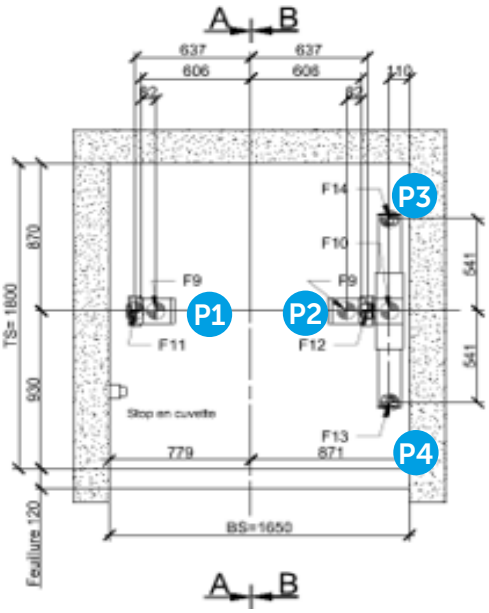


Note

ELEVATOR PIT ISOLATION

TYPE 4

Elastomeric bearings are installed at the elevator pit level to decouple the guide rails from the structure (either beneath a concrete slab or directly under the rails, using a steel top plate to distribute the load).



Vertical Loads

	Nominal Loads	Emergency Loads	
P1=			kN
P2=			kN
P3=			kN
P4=			kN

Dimensions of the rail foot / base

	Length	Width	
P1=			mm x mm
P2=			mm x mm
P3=			mm x mm
P4=			mm x mm

If inertia mass is used (concrete slab):

Concrete slab thickness _____ mm

Note