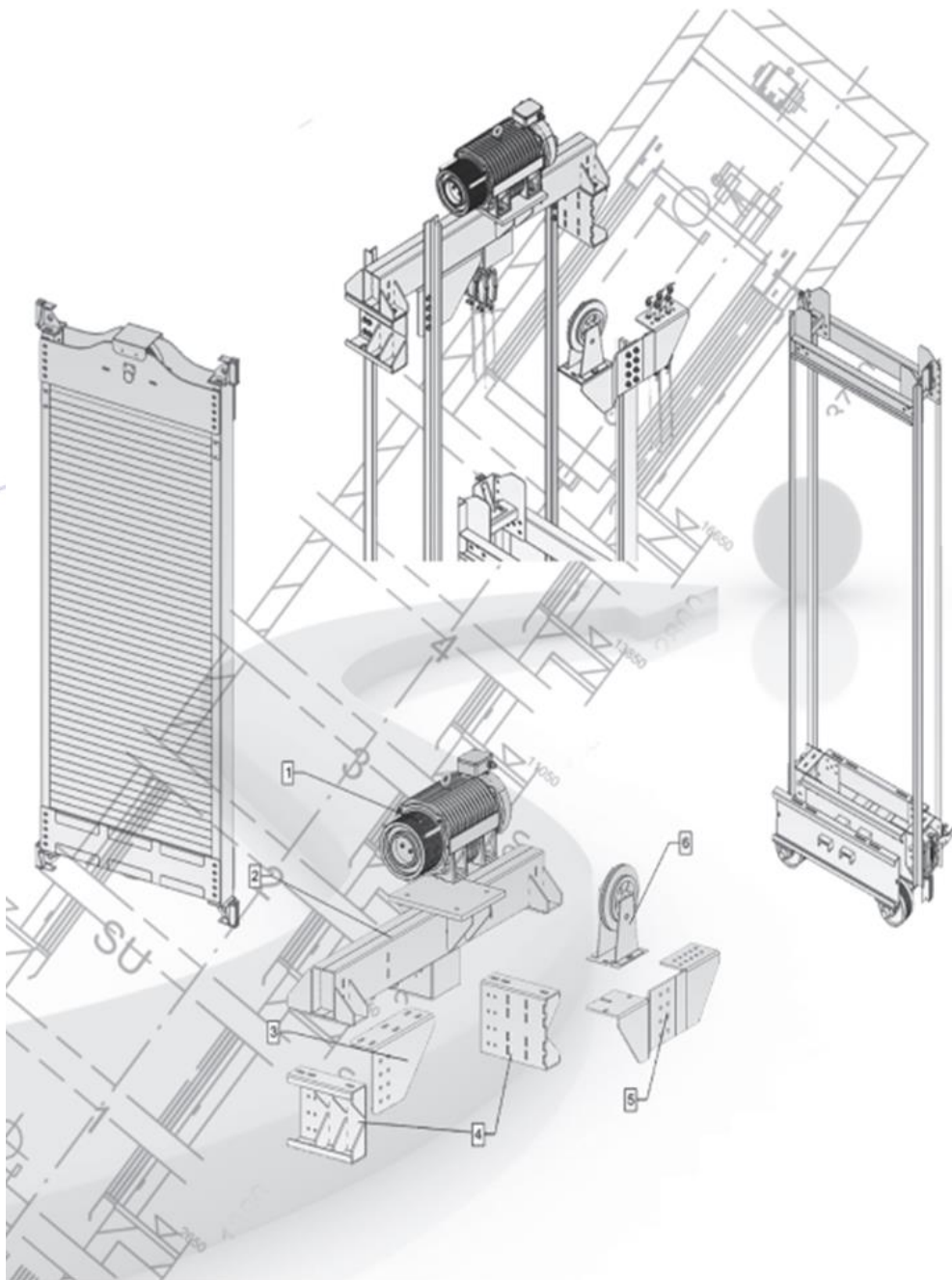


# MRL CAR FRAME AND MACHINE CHASSIS INSTALLATION MANUAL



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## i. Introduction

This guide is explaining how to assemble car frame and counterweight which was produced by Has Elevator. Also we prepared this manual step by step to simplify installation of car frame for our valuable customer.

For easy installation please read this manual carefully before installation and follow instruction step by step. It includes important information and clues.

This guide was prepared for general car frame and counterweight model. Please contact the manufacturer for models with varying.

## ii. Safety Rules and Warnings

- These products were produced for exclusively use in Elevator Industry
- The manufacturer H.K.S. HAS ASANSÖR LTD. ŞTİ. will not hold any responsibility for possible damages arising from improper use of tj product.
- To ensure that only the qualified staff should make the installation.
- Improper use of the product and unauthorized changes may cause injury and damage to the product .
- Distributions and any partial or whole reproduction of all the instructions, information, detail and drawings which are mentioned in this manual requires permission from HKS HAS ASANSÖR.

## iii. Shipping and Storage Suggestions

To avoid damage to the product please use forklift or pallet truck.

Avoid putting heavy objects on products and step on parts of car frame and counter weights. Protect products against mechanical shock.

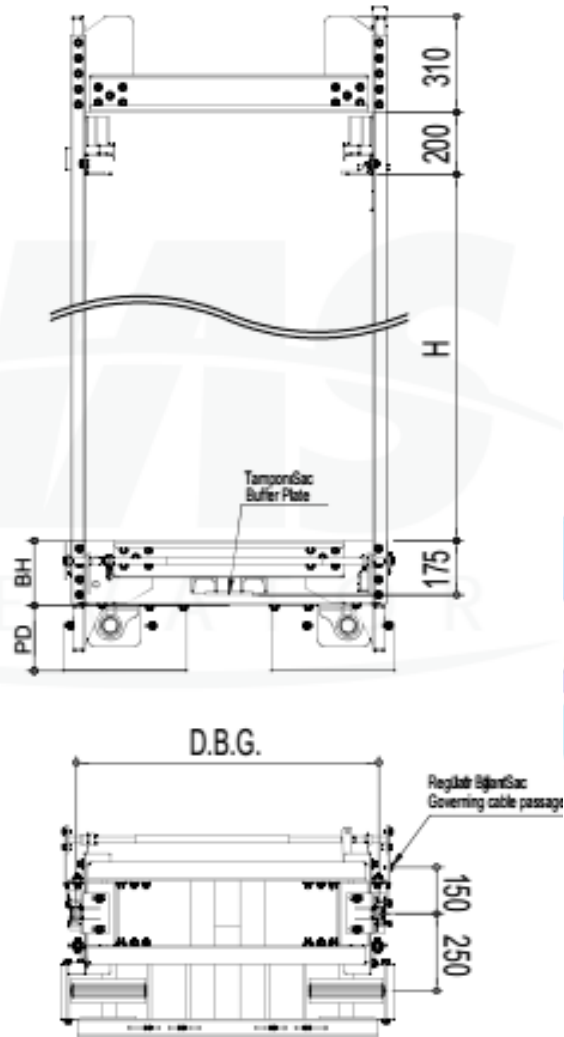
Avoid puddle environment and protect products direct sunlight. Otherwise cause damage to the product.

Ensure that all products are working or not missing products. If there are ,contact with the manufacturer immediately.



Thank you for your attention and prefer our products.

## 1. Car Frame Installation Guide



H: Toplam Kabin Yüksekliği  
Total height of car

PD:  $(\text{Kasnak çapı})/2 + 100\text{mm}$   
(Pulley diameter)/2 + 100mm

BH: Q<800 KG ise BH=210mm / if Q<800 KG BH=210mm  
Q>800 KG ise BH=310mm / if Q>800 KG BH=310mm

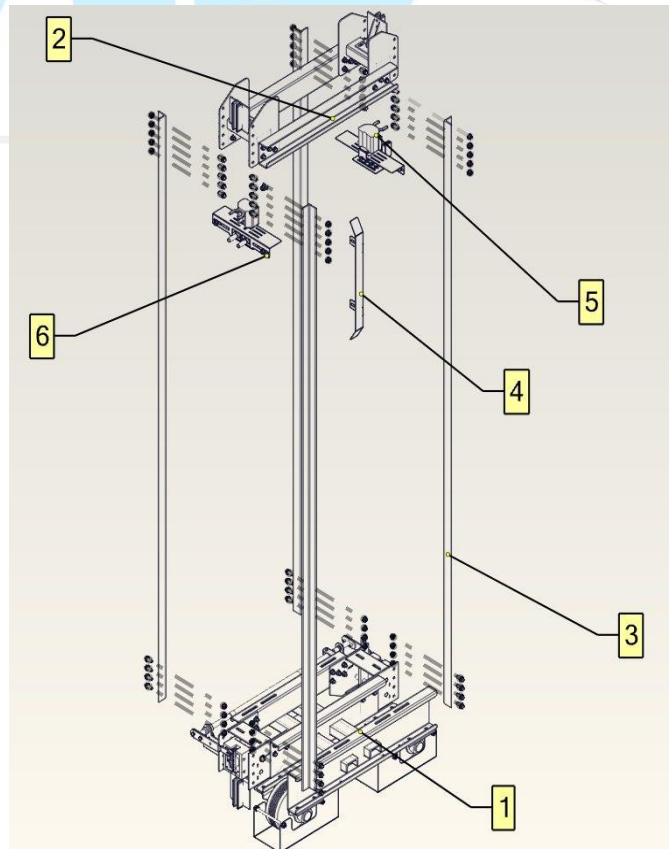
Figure 1

## 1.1. Part List

NO	Part Description	Qty
1	Car Frame (Upper)	1
2	Car Frame (Bottom)	1
3	50x50 L Brackets	4
4	Switch Cut	1
5	Lubricator	2
6	Lubricator Sheet	2

This guide was prepared for our valuable customer to simplify installation of Has Elevator Car Frame. Assembly manual includes general concept of car slings assembly. Please contact with manufacturer for models with varying.

**Table 1**



**Figure 2**

## 1.2. Installation

### 1.2.1. Assembly of Upper and Bottom Guide Shoes

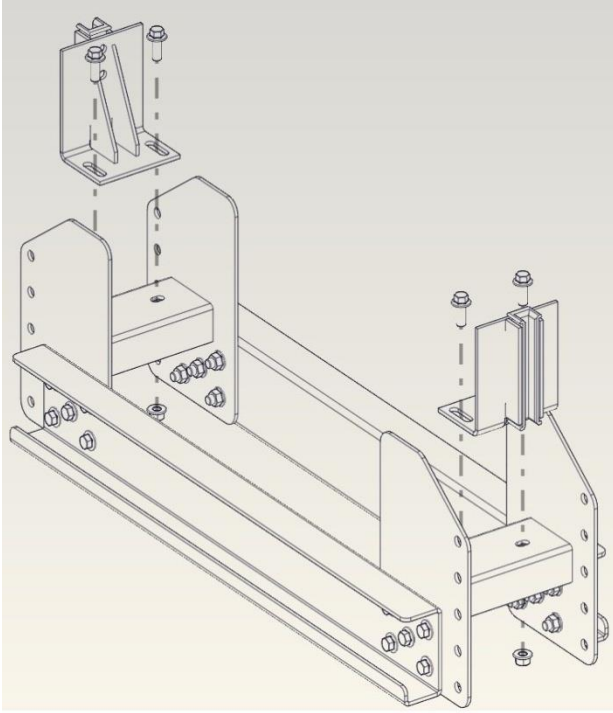


Figure 4

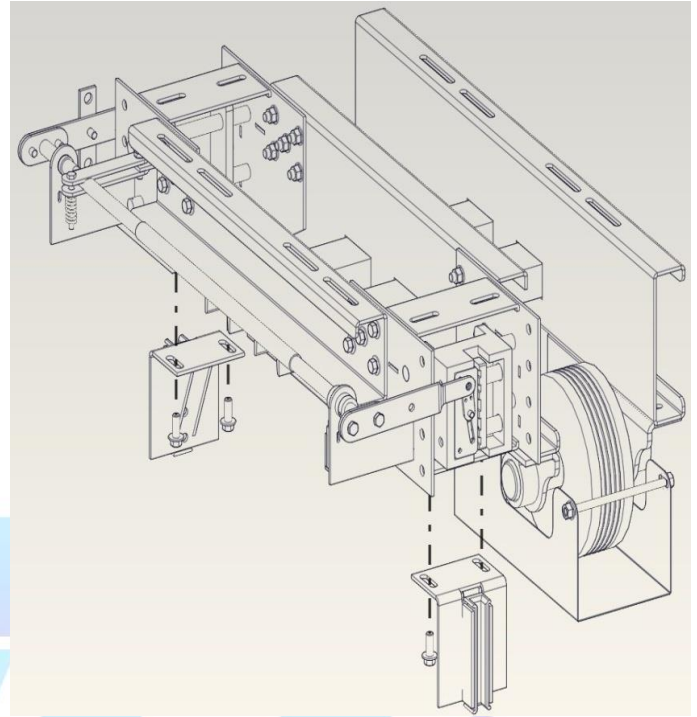


Figure 3

As it described in figures assemble guide shoes with upper car frame (figure 2.) and bottom car frame (figure 3.) by using (8)M12x60 DIN 6921 and (8)M12 DIN6923. Distance between guide shoe and guide rail should be 1 mm.

### 1.2.2. Assembly of Pulleys Cover

As it described in figure assemble pulleys cover by using (8)M8x25 DIN6921 and (8)M8 DIN 6923 with bottom part of car frame. You can adjust the position of rope pin using hole..

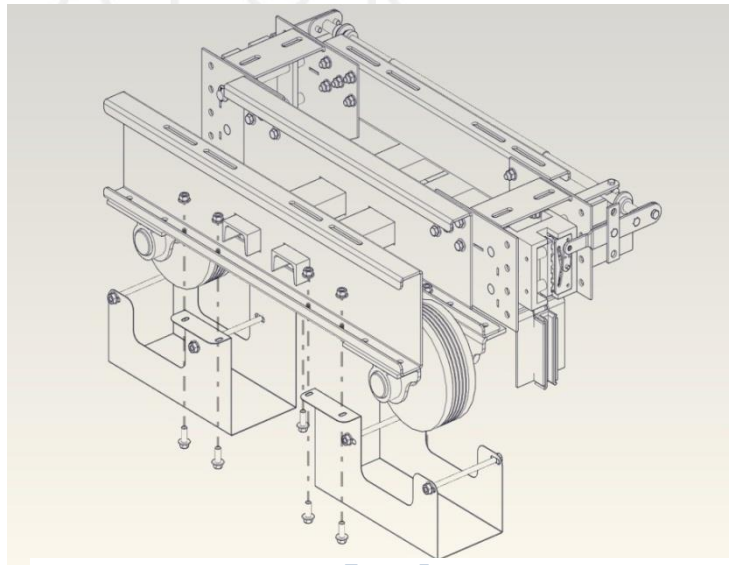


Figure 5



### 1.2.3. Bottom Part Of Car Frame Assembly

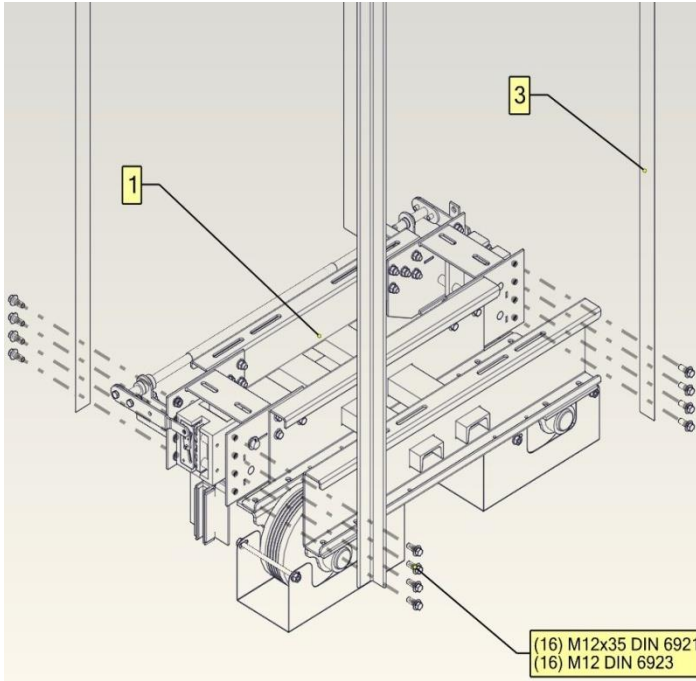


Figure 6

After installing guide rails and buffers according to project drawings, place bottom part of car frame between both guide rails then assemble L shape bracket by using (16) M12x35 DIN 6921 and (16) M12 DIN 6923.

### 1.2.4. Upper Part of Car Frame Assembly

Please follow the same way with bottom part assembly for upper part of car frame. Then assemble number 2 and number 3 by using (20)M12x35 DIN 6921 and (20) M12 DIN 6923.

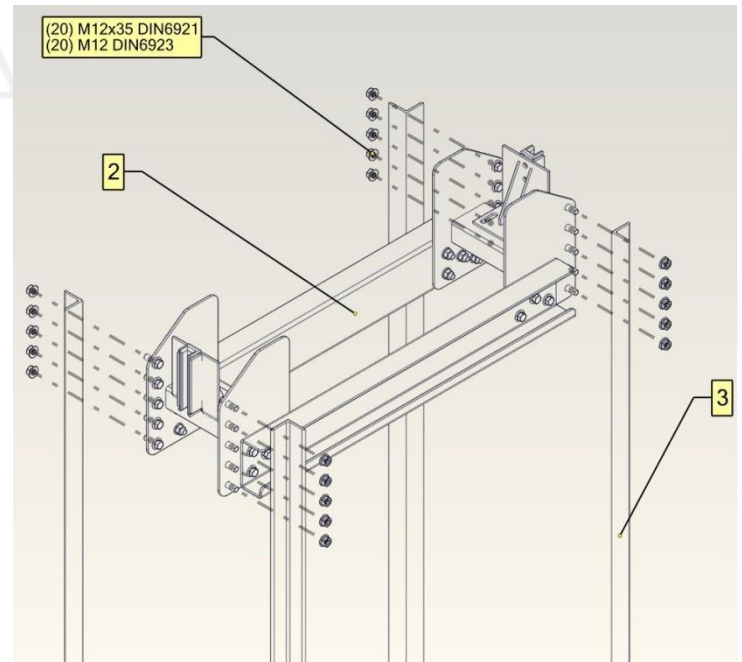


Figure 7

### 1.2.5. Assembly of Lubricator

Assemble magnetic tube and double-stabil as it described in figures. Please put magnet (30cm and 10cm) opposite side of these components for defining the position of car.

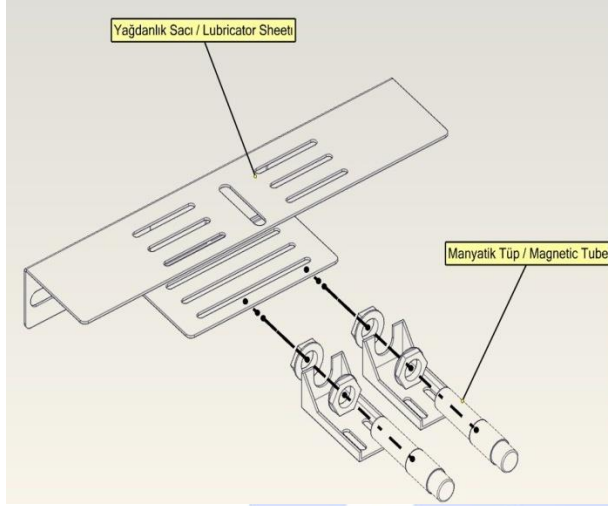


Figure 8

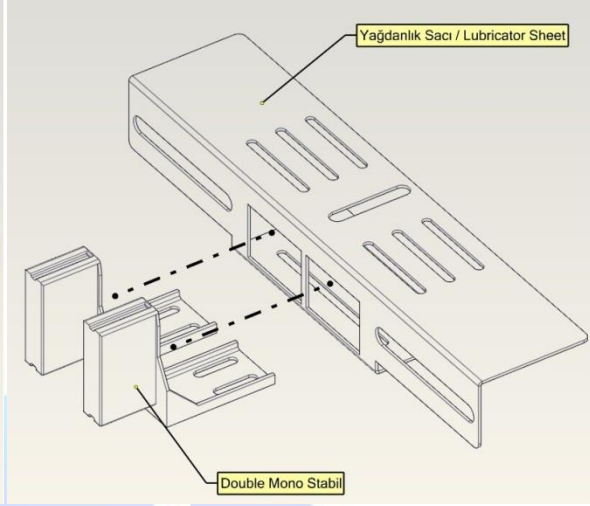


Figure 9

As it described in figure assemble switch off sheet, lubricator sheet and lubricator by using nail and fasteners.

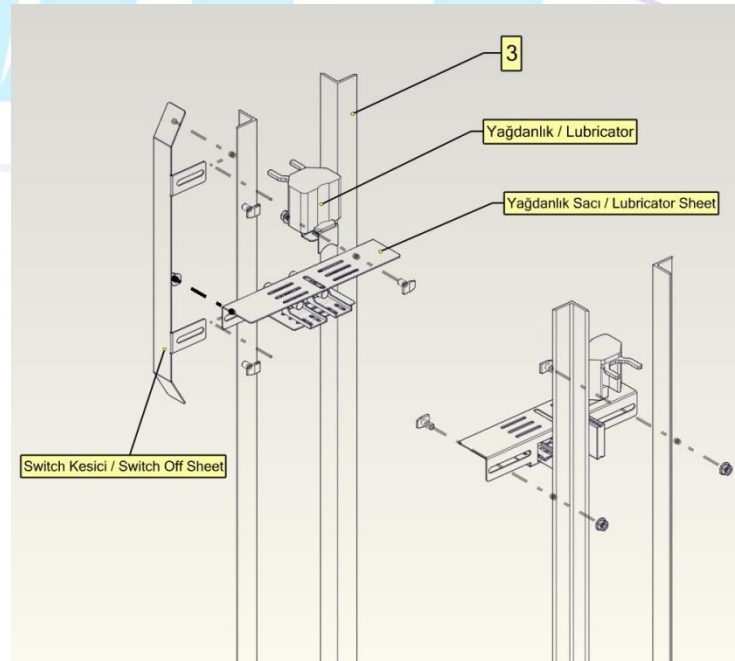


Figure 10



## 2. Machine Chassis Installation Guide

### 2.1. Part List

NO	Part Description	Qty
1	Machine	1
2	Machine Chassis Profile	1
3	Guide Rail Support Sheet	1
4	Machine Chassis Brackets	2
5	OSG Sheet	1
6	Over Speed Governor	1

This guide was prepared for our valuable customer to simplify installation of Has Elevator Car Frame. Assembly manual includes general concept of car slings assembly. Please contact with manufacturer for models with varying.

Table 2

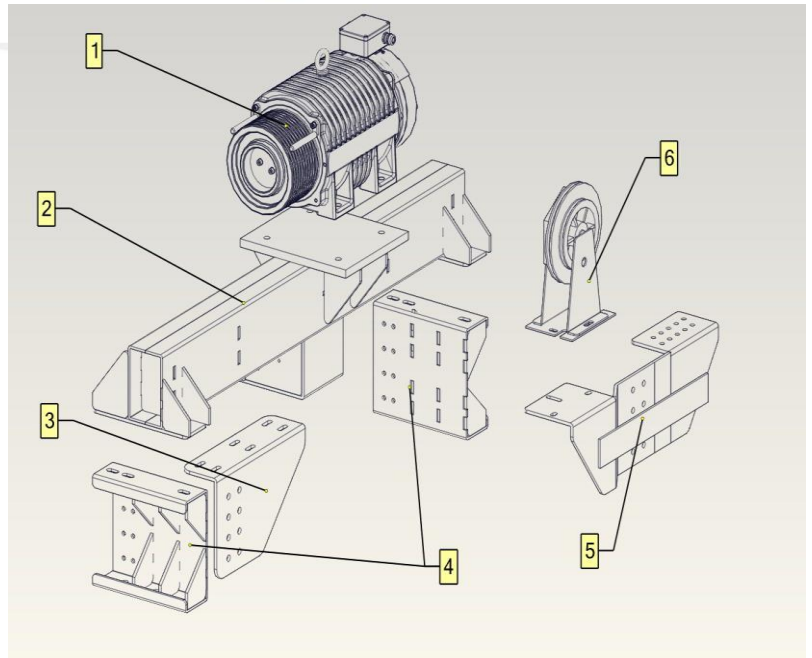


Figure 11

## 2.2. Assembly of Chassis Profile

As it described in figure assemble chassis profile with the brackets by using fasteners..

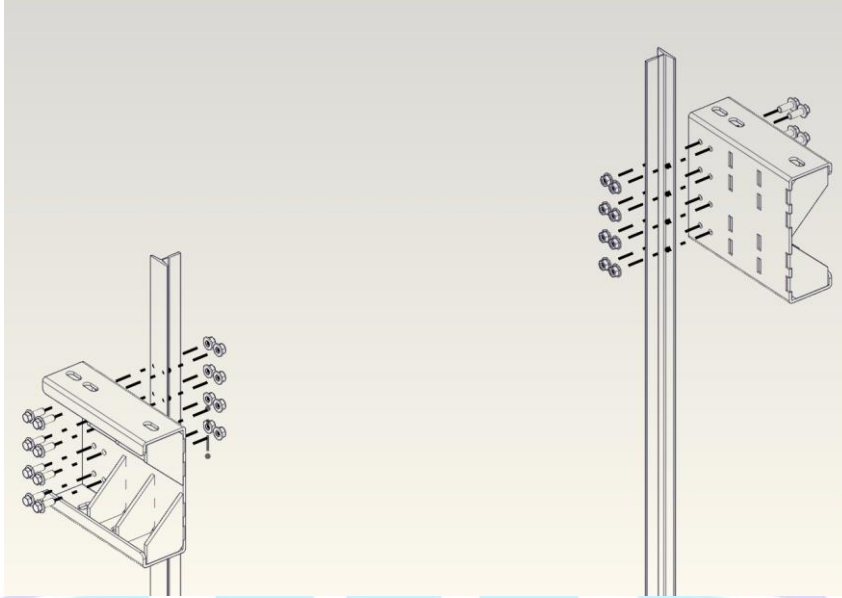
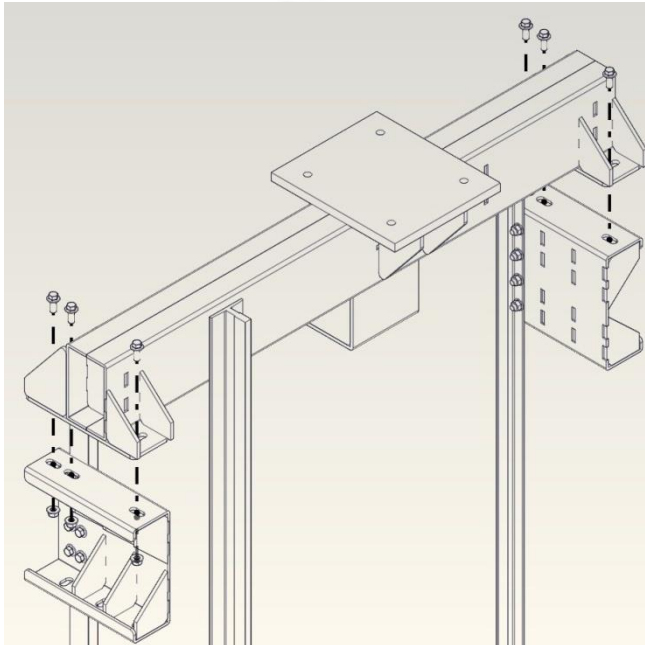


Figure 12

## 2.3. Assembly of Chassis Profile

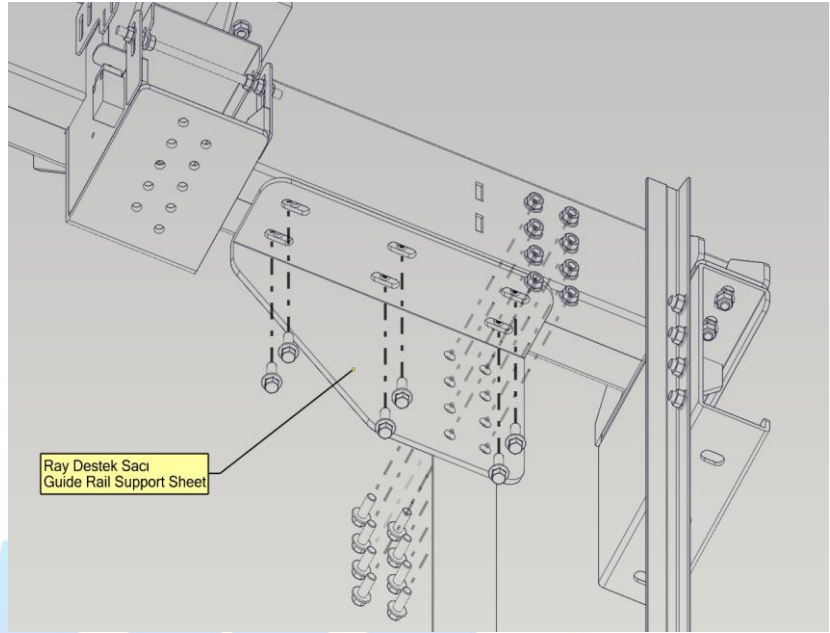


As it described in figure assemble chassis profile with the brackets by using fasteners.

Figure 13

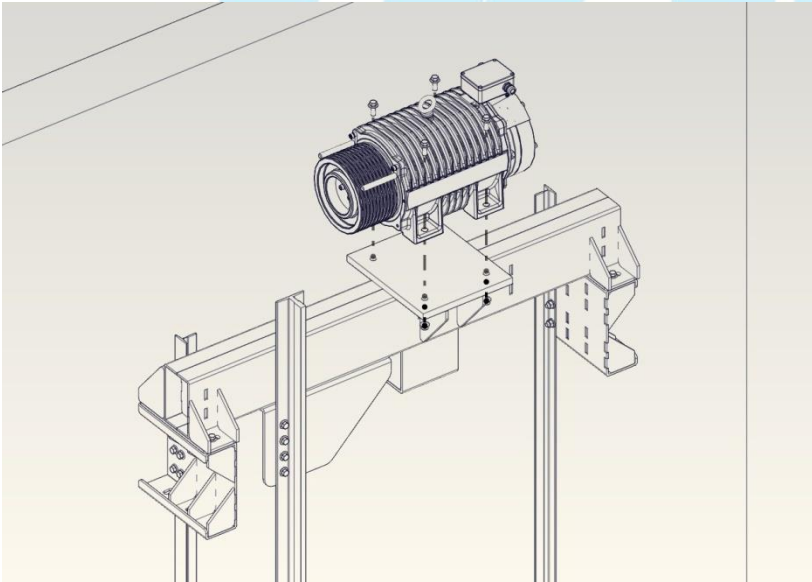
## 2.4. Assembly Guide Rail Support Sheet

Assemble support sheet that the package contents with bottom part of chassis profile and car guide rails by using fasteners..



Figurel 14

## 3. Assembly Of Machine to Chassis



Şekil 15

Assemble machine with machine bed plate which is connect with chassis already by using fasteners.

#### 4. Assembly of Over Speed Governor Sheet

As it described in figure assemble OSG sheet with car guide rail by using fastener. OSG sheet consist of two parts; first part is used as a rope hitch plate and the other part is used as a bed plate for OSG.

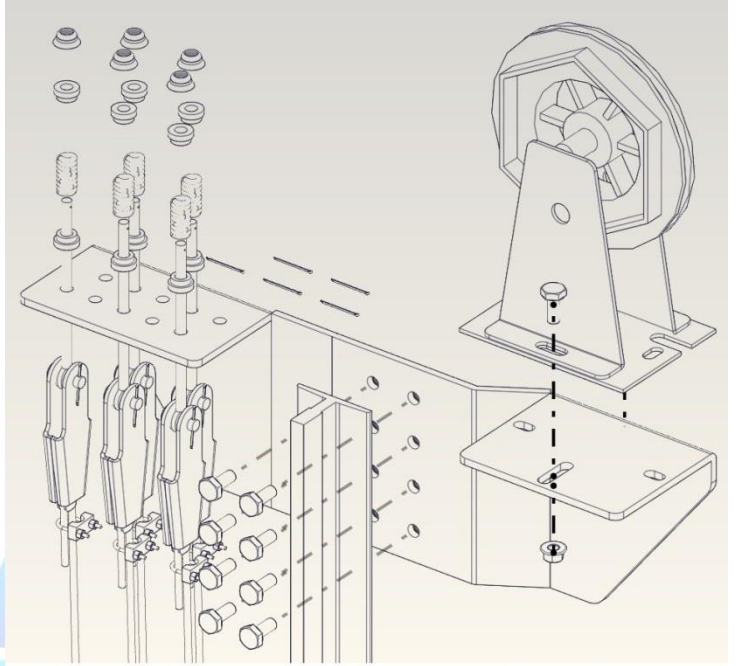


Figure 16

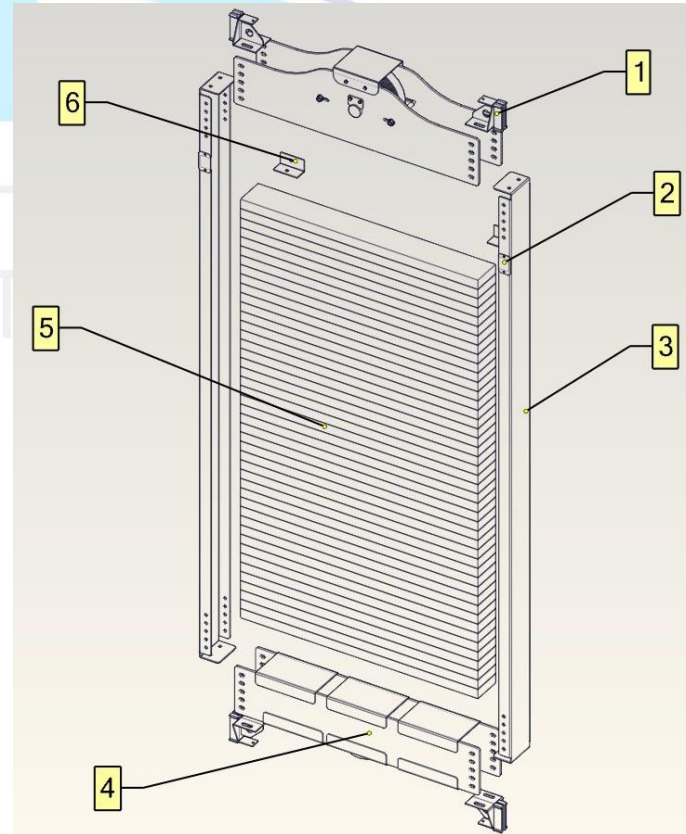
## 5. Counter Weight Installation Guide

### 5.1. Part List

NO	Part Description	Qty
1	Upper CWT Frame	1
2	Side Cover Plate	2
3	Side Beams	2
4	Bottom Frame	1
5	Weights	1
6	Weight Stopper	1

**Table 3**

This guide was prepared for our valuable customer to simplify installation of Has Elevator Car Frame. Assembly manual includes general concept of car slings assembly. Please contact with manufacturer for models with varying.



**Figure 17**

## 5.2. Bottom and Upper Part of CWT Frame Installation

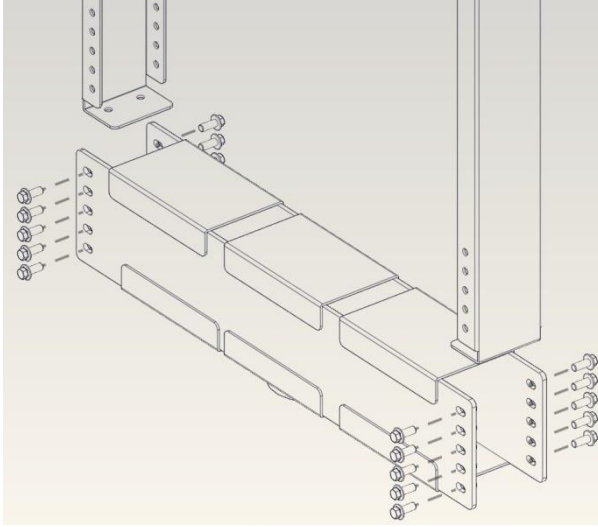


Figure 18

As it described in figures assemble upper part and bottom part of frame of CWT frame with side beams by using fasteners.

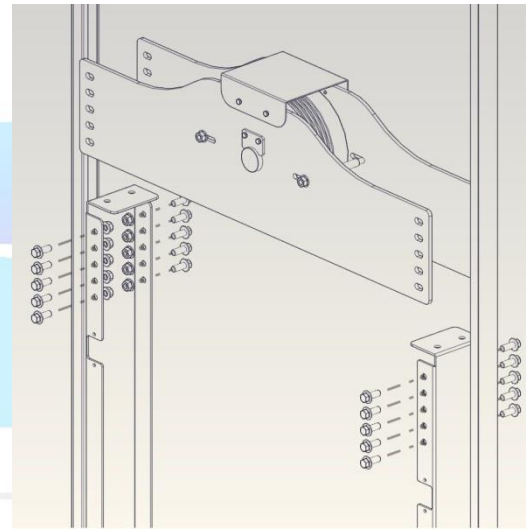
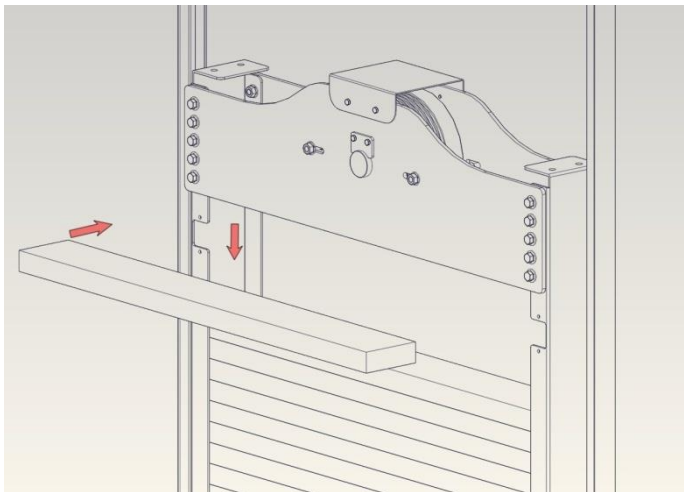


Figure 19

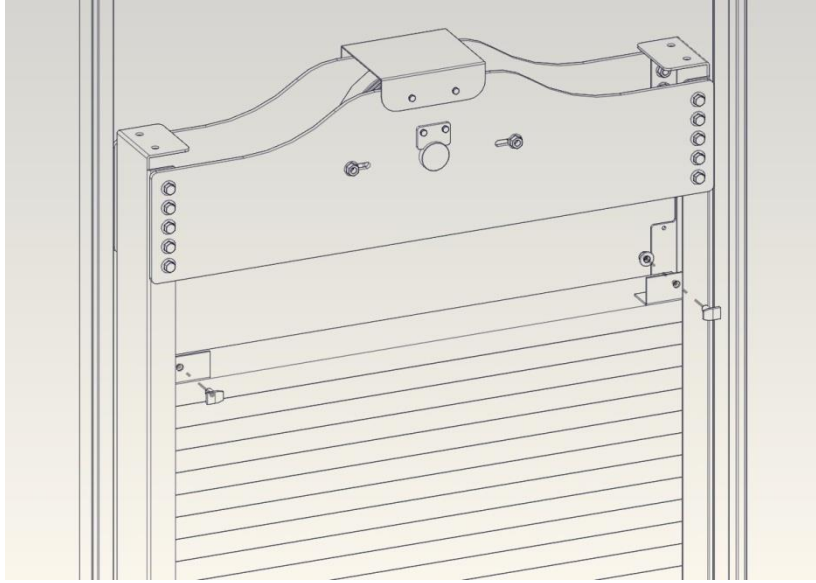
## 5.3. Placing Weights



Figurel 20

As it described in pictures insert the weights into the CWT Frame. You can check the quantity of weight by looking project information.

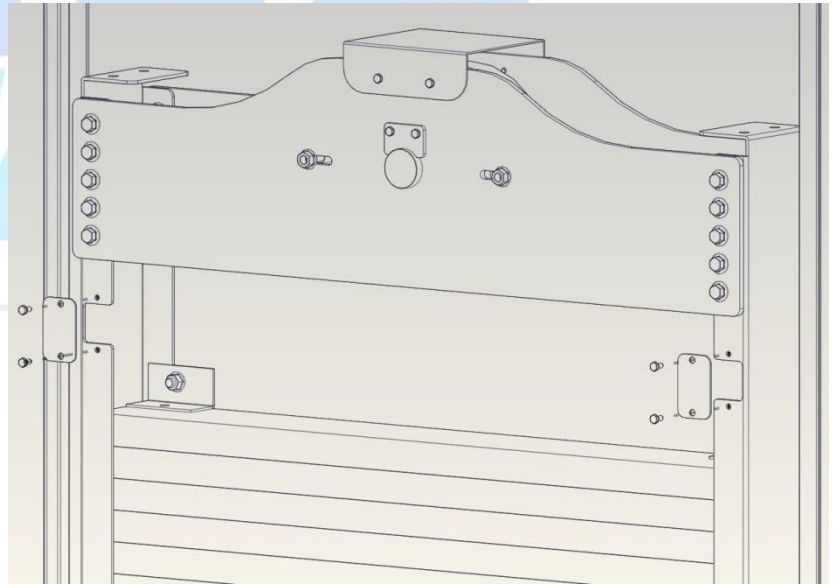




**Figure 21**

Then assemble weight stopper as it described in figures by using nails and fasteners. This prevent to jumping weights.

After assembling cover sheet to the side beams finish steps of placing weights.



**Figure 22**

## 5.4. Assembly of Guide Shoes

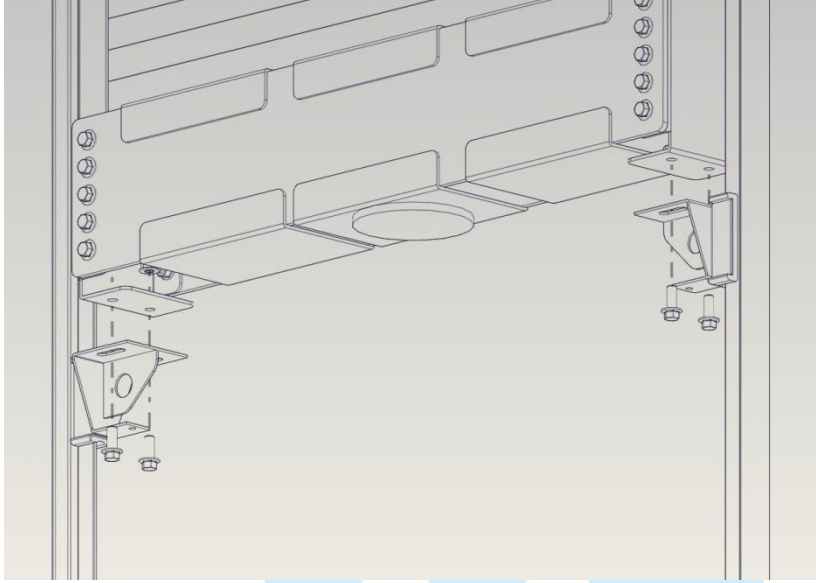


Figure 23

Assemble upper and bottom guide shoes with side beams by using fastener. The distance between guide shoes and rails should be 1 mm.

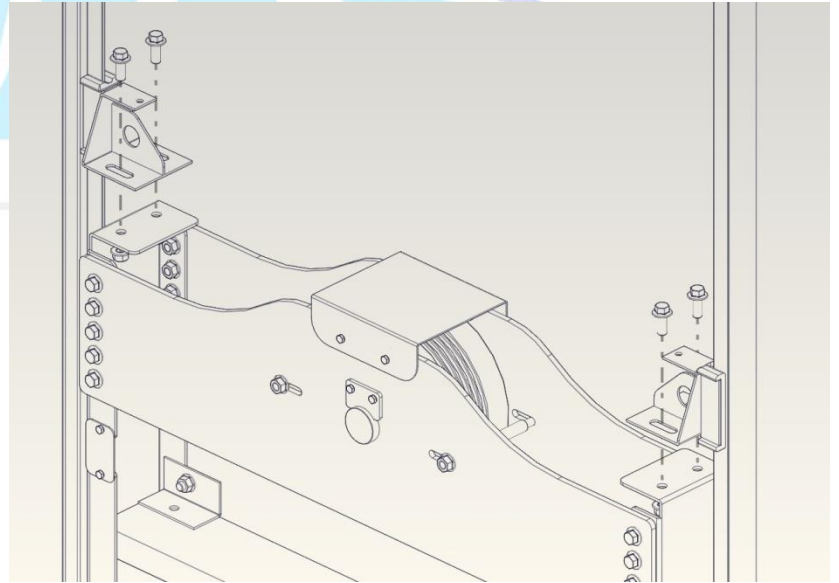


Figure 24

## 6. Counter Weight Cover Sheet Assembly

According to EN81-20 standard, cover sheet height should be more than 2500 mm and the distance between pit floor and cover sheet less than 300 mm.

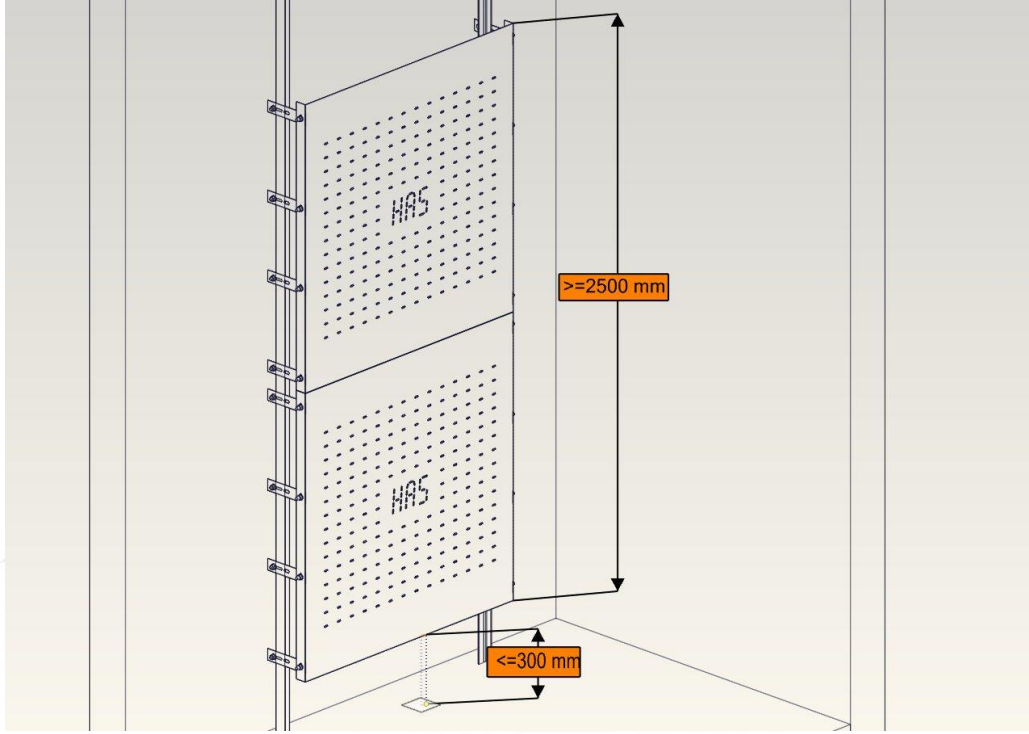


Figure 25

As it described in figure 25 assemble weight cover to the counterweight guide rails by using fastener.

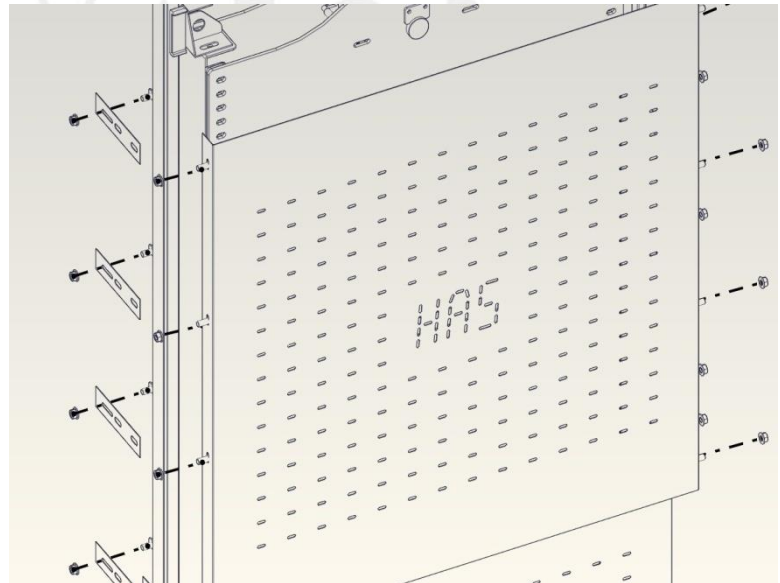


Figure 26



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