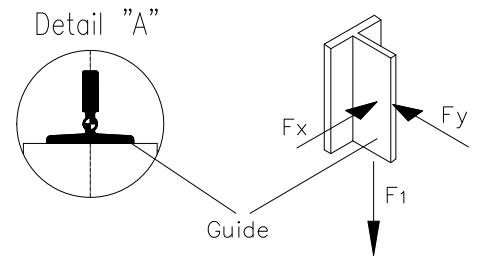
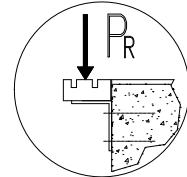
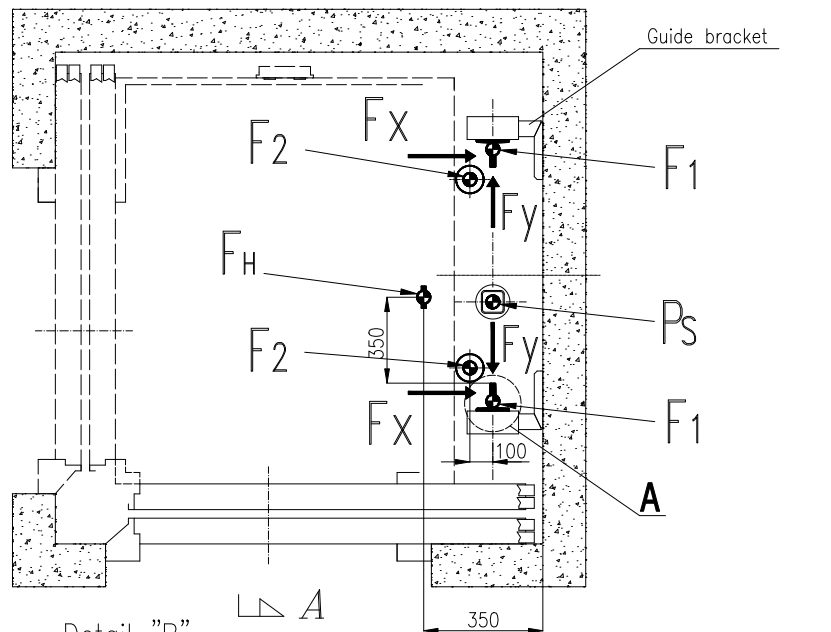
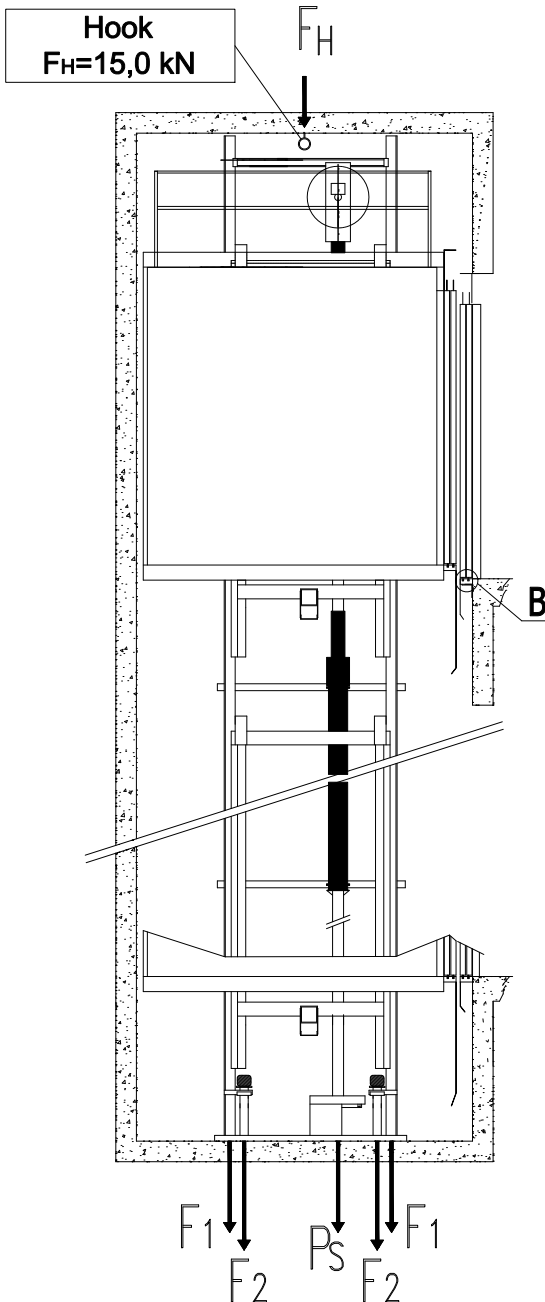


# FORCES ON PIT FLOOR

Payload [kg]	F <sub>x</sub> [kN]	F <sub>y</sub> [kN]	Vertical force under guide F <sub>1</sub> [kN]	Vertical force under buffer F <sub>2</sub> [kN]	Vertical force under piston P [kN]	Emphasis on sill P <sub>R</sub> [kN]
900	8,8	3,7	28,2	8,7	38,2	3,5

SHAFT SECTION A-A ↷

SHAFT PLAN ↷ A

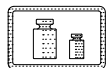


- F<sub>1</sub> - vertical force under guide
- F<sub>2</sub> - vertical force under buffer
- P<sub>s</sub> - vertical force under piston
- F<sub>H</sub> - vertical force affecting hook
- P<sub>R</sub> - emphasis on sill

**ATTENTION:**

F<sub>2</sub> - static load exerted by the weight of the loaded car (vertical force under buffer)  $F_2 [N] = (\text{weight of the empty car and frame} + \text{nominal load}) * 9,81$   
 Pit floor under buffer pilars should move quadruple load resulting from the force F<sub>2</sub> (PN-EN 81-2 p:5.3.2.2)

**IN ORDER TO FIND EXACT POSITION OF FORCES IN THE SHAFT USE THE DRAWINGS OF SPECIFIC LIFT**



Name: CONSTRUCTION DIRECTIVES	Change	Date	Description	
Description: Forces on Pit floor GL TML 900kg 2 entrances 90°	No. of catalogue: <b>4-4</b>	No. of drawing: GMV.TML.900.S	Date version: 24.05.2016	<b>GMV</b>
	Date: 20.09.2011		Version: 2.5	