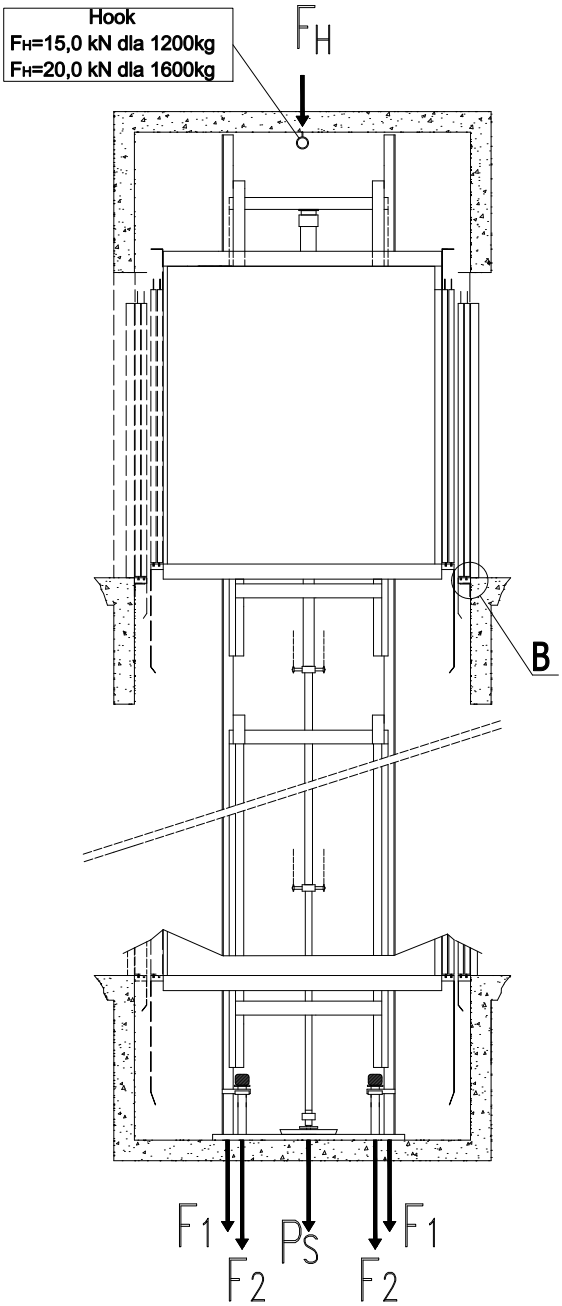
FORCES ON PIT FLOOR

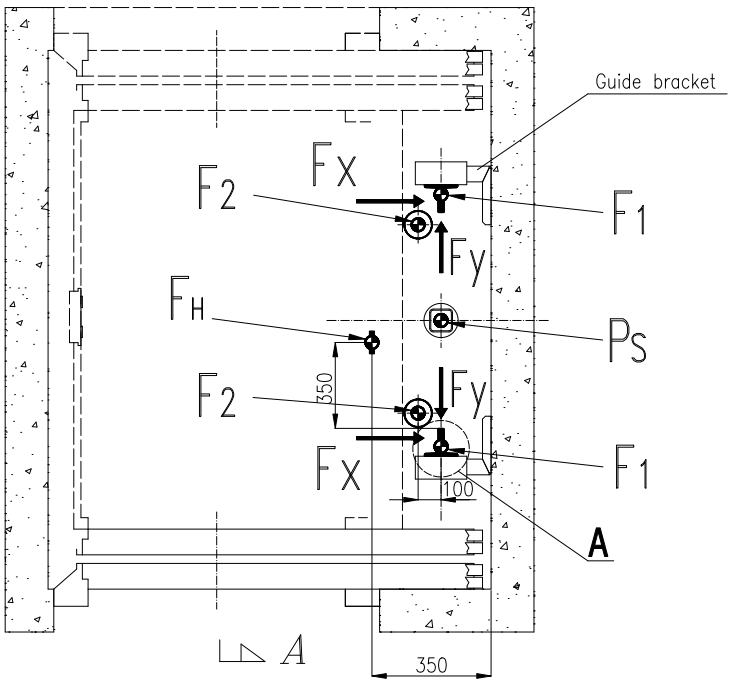
Payload [kg]	Fx [kN]		Fy [kN]		Vertical force under guide F1 [kN]		Vertical force under buffer F2 [kN]		Vertical force under piston PS [kN]		Emphasis on sill PR [kN]
	1 entrance	2 entrances	1 entrance	2 entrances	1 entrance	2 entrances	1 entrance	2 entrances	1 entrance	2 entrances	
600–1200	5,4	5,5	4,6	3,5	34,7	36,7	10,6	11,2	47,1	52,3	4,7
1000–1600	13,6	14,0	7,0	4,9	47,1	48,3	14,2	14,6	64,2	65,7	6,2

SHAFT SECTION A–A

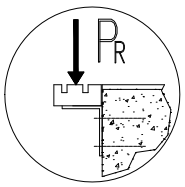


SHAFT PLAN

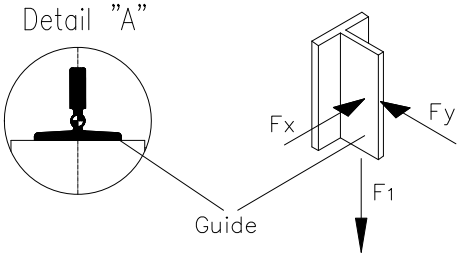
A



Detail "B"



Detail "A"



F1 - vertical force under guide
F2 - vertical force under buffer
PS - vertical force under piston
FH - vertical force affecting hook
PR - emphasis on sill

ATTENTION:
F2 - static load exerted by the weight of the loaded car (vertical force under buffer) F2 [N] = (weigt of the empty car and frame + nominal load) * 9,81
Pit floor under buffer pilars should move quadruple load resulting from the force F2 (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

Change	Date	Description

Name: CONSTRUCTION DIRECTIVES

Description: Forces on Pit floor GPL 600–1600 kg

No. of catalogue:	No. of drawing:	Date version:
4-9	GMV.GPL.6–16.S	24.05.2016
Date: 20.09.2011		Version: 2.5

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