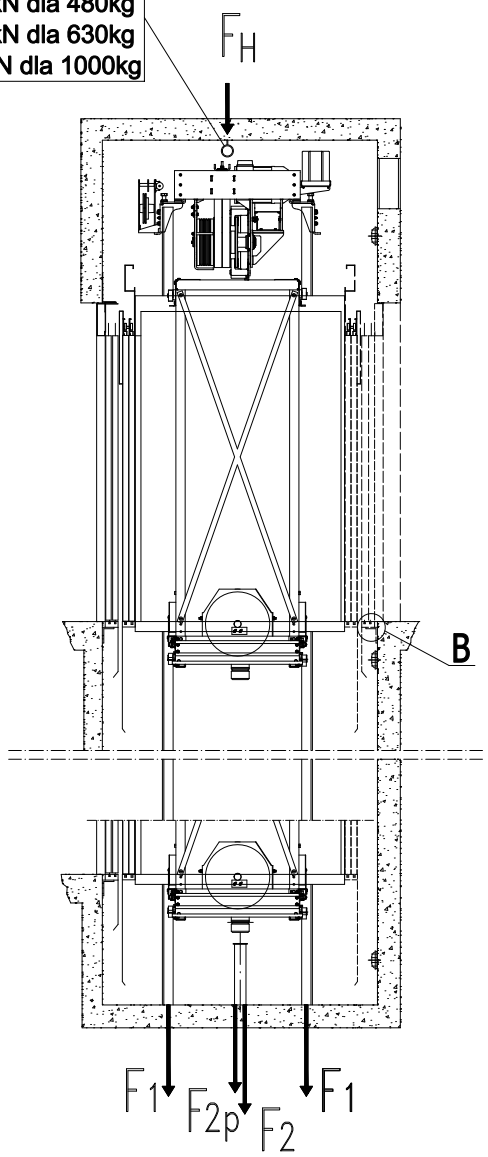
FORCES ON PIT FLOOR

Payload [kg]	F_x [kN]		F_y [kN]		Vertical force under guide F_1 [kN]		Vertical force under buffer F_2 [kN]	Vertical force under counterweight F_{2p} [kN]	Emphasis on sill P_R [kN]
	1 entrance	2 entrances	1 entrance	2 entrances	1 entrance	2 entrances			
450–480	2,5	2,4	0,9	0,8	14,3	14,7	17,9	12,5	1,9
630	3,2	3,1	1,2	1,1	16,9	17,3	23,0	16,0	2,5
1000	4,5	4,6	2,5	2,1	20,1	20,5	36,0	26,0	3,9

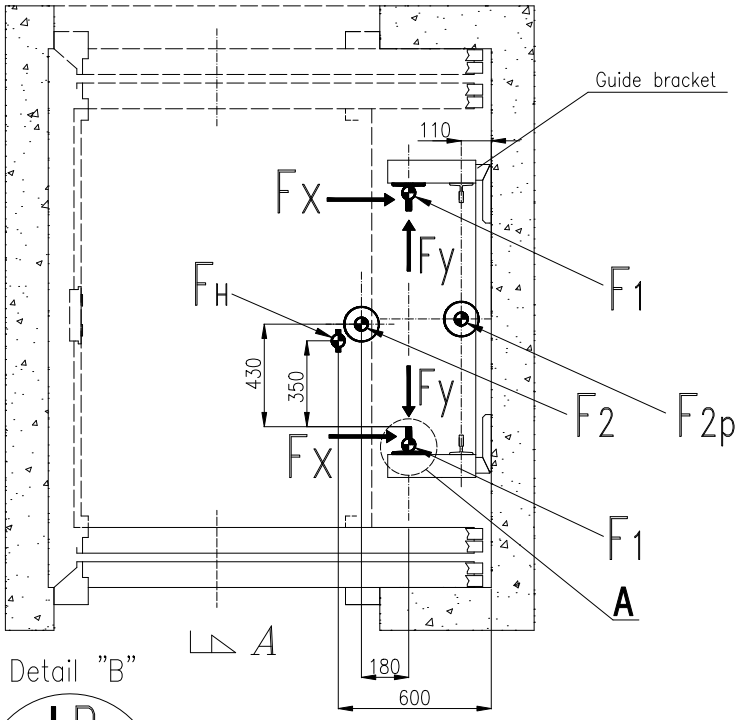
SHAFT SECTION A–A

Hook
F_H=15 kN dla 480kg
F_H=20 kN dla 630kg
F_H=25 kN dla 1000kg

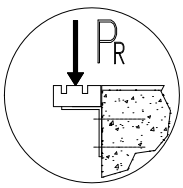


SHAFT PLAN

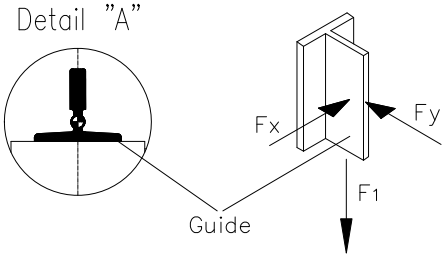
A



Detail "B"



Detail "A"



F_1 - vertical force under guide
F_2 - vertical force under buffer
F_H - vertical force affecting hook
P_R - emphasis on sill

ATTENTION:
F_2 - 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 F_2 (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 GLB–MRL 450–1000 kg

No. of catalogue:	No. of drawing:	Date version:
4-6	GMV.GLB.S	24.05.2016
Date: 22.09.2011		Version: 2.4