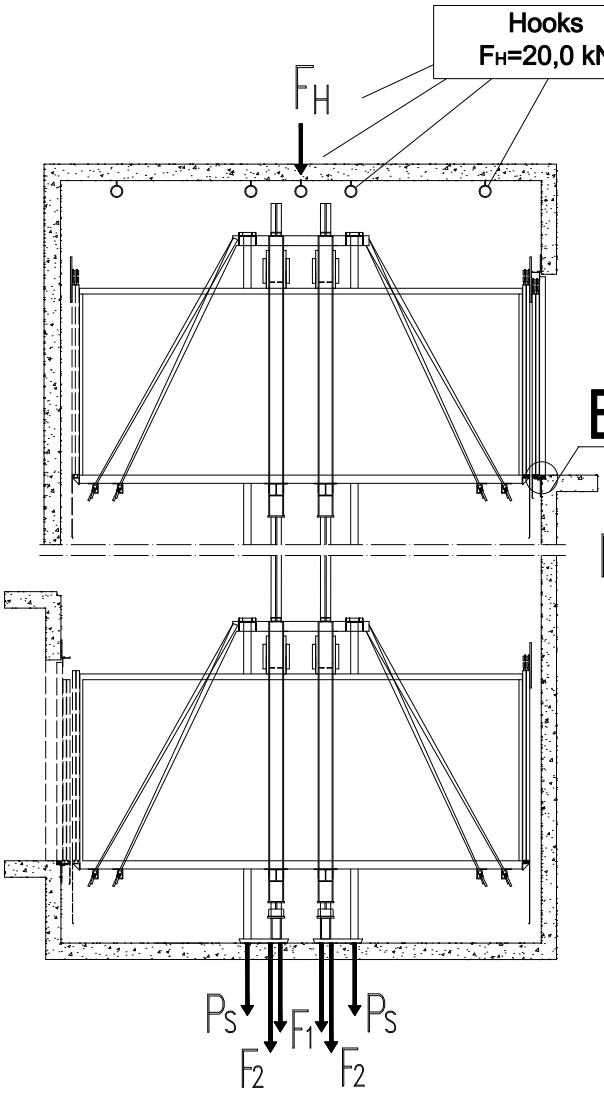
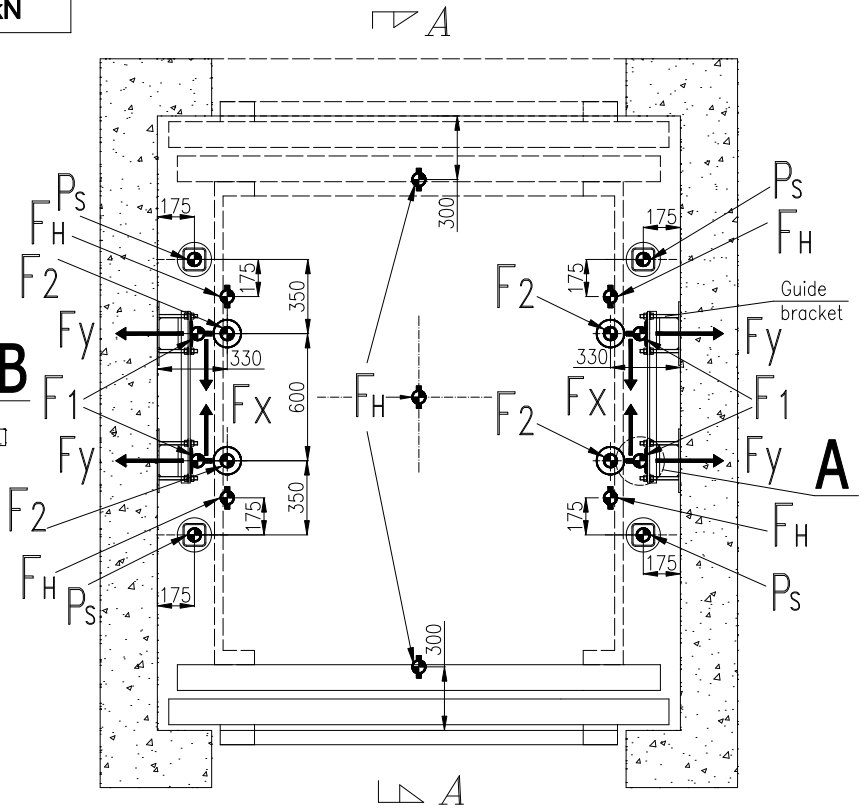
FORCES ON PIT FLOOR

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	
3200–6500	9,9	9,5	6,7	6,7	2,6	2,6	25,3	25,5	32,7	33,5	54,2
4000–8000	13,4	12,9	8,9	8,9	3,4	3,4	29,6	30,2	38,4	39,3	66,7
4100–8500	15,4	15,0	9,1	9,3	3,4	3,4	32,5	33,7	40,6	41,5	70,9
4500–9000	16,6	16,1	10,6	10,7	3,4	3,4	34,9	36,2	42,8	43,8	75,0

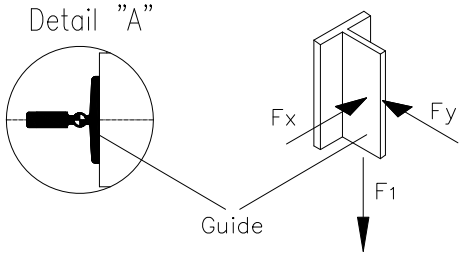
SHAFT SECTION A–A



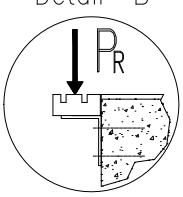
SHAFT PLAN



Detail "A"



Detail "B"



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 3200–9000 kg

No. of catalogue:	No. of drawing:	Date version:
4-11	GMV.GPL.32–90.S	24.05.2016
Date: 20.09.2011		Version: 2.6

GMV