A company of ThyssenKrupp Elevator

ThyssenKrupp Elevator Sp. z o. o.

ThyssenKrupp

DOKUMENTACJA TECHNICZNA DŹWIGU

Park Naukowo Technologiczny

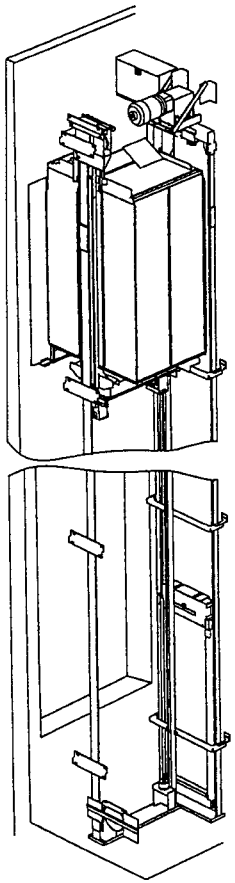
AM 400721

2. Rysunki dźwigu

Rysunek montażowy dźwigu
Schemat zawieszenia dźwigu

Thyssenkrupp Elevator Manufacturing France

ThyssenKrupp



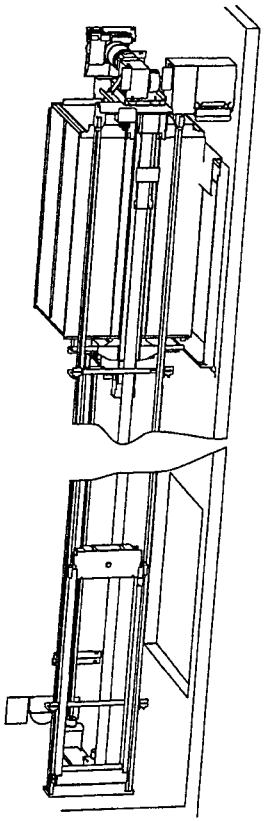
Installation file

ISIS

LIFT WITHOUT MACHINE ROOM

Installation address

PARK TECH W GDAŃSKU D2
UL. TRZY LIPY 3
80-111
GDANSK



THYSSENKRUPP ELEVATOR SP Z.O.O.
UL. DZIELNA 60

01-029
WARSZAWA
POLOGNE

Controled by : BOUANCHEAU

File approval

Date :

Signature

By :

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Car height + clear opening height	A	24/10/07	CB
Comments	REV	Date	By

Date : 24/09/07
Customer Lift N° : AM400721
TEF Lift N° : AM400721
TEF Drawing N° :
TEDOC045-AM400721-01A

Generalities

Observation

Works including masonry, hardware and electricity, required for the installation of lift equipment, must comply with regulations in force and with indications on drawings.

If the installation is subject to special regulations these must be specified (category and type for buildings to which the public is admitted, for residential buildings,etc.).
This may require some modifications of equipment, or even a special layout.
Furthermore, it influences the fire resistance of shaft walls (according to National Code in force in the country)

Works site

DRAWING DIMENSIONS represent MINIMUM dimensions for the shaft (excluding watertight rendering, sound proofing, etc.) and PLUMBNESS.
Headroom between "finished floor at top terminal level" and "shaft head", together with pit depth, must be respected.
Level lines must be indicated in front of doors inside the shaft. Position installation axis from the most projecting landing sill plumb and the most projecting side wall plumb.

Fixings for lift equipment (guides, landing frames, etc.) must be carried out either with expansion bolts or halfen inserts fixed in the necessary load points as shown on the drawing.

There must be no pipes in floors nor at a distance of less than 10 cm from voids allocated to the installation of lifts.

Main power supply must be available when work start.

The lift is supposed to operate with a temperature between +5° and + 40° Celcius inside the shaft or in the machine room (if any).

Except if there are specific requirements in the tender specifications, the necessary equipment to keep this temperature range will be supplied by others.

The lift well must be designed to withstand all forces as indicated on our drawing. The shaft as shown on plan is indicative only and does not necessarily reflect the actual contruction or building fabric. It is vital that the shaft internal dimensions are maintened and that the shaft is capable of taking all loads imposed. The design of the shaft is outside of our responsibility.
The lift shaft must not contain any device or canalisation out of lift service.

DRAWINGS APPROVAL

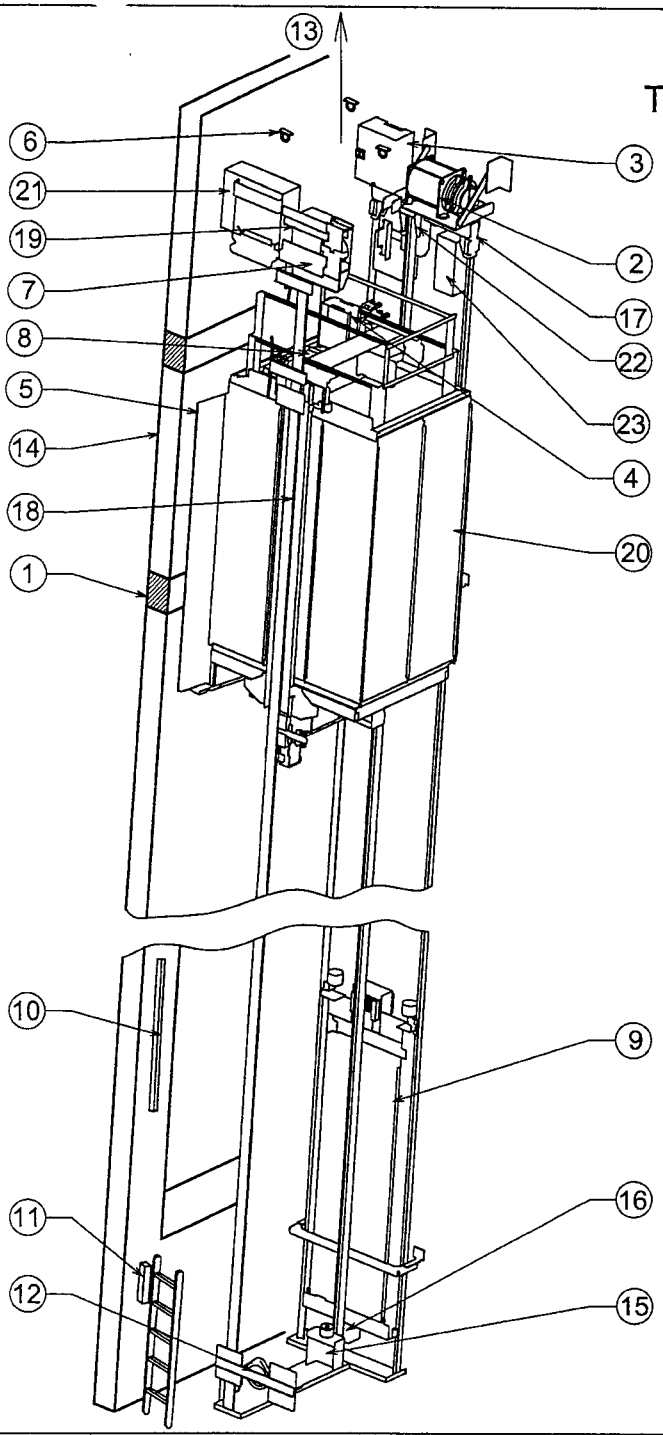
Any modification, as a result of changes, errors or mistaken plumb, of arrangements and dimensions on the drawing could mean changes of equipment stipulated in the contract.

Before production, possible remarks or approved copies of plans of installations must be sent to :

THYSSENKRUPP ELEVATOR SP Z.O.O.
UL. DZIELNA 60 _ 01-029 WARSZAWA

Table of contents

Typical arrangement



Legend

1. Shaft (Main structure) by builder
2. Drive unit
3. Variable Voltage Variable Frequency control cabinet
4. Inspection box
5. Landing door
6. Lifting eyes or beams and eye for safety harness see pages (6,7,8) by builder
7. Speed governor
8. Access on car roof
9. Counterweight
10. Shaft lighting
11. Pit switch
12. Speed governor tension pulley
13. Ventilation in top of shaft (not included in lift supplies) 1% of the horizontal section of the well (mini.)
14. Intervention box
15. Car buffer
16. Counterweight buffer
17. Drive
18. Car sling
19. Ropes attachment (car)
20. Car
21. Control cabinet
22. Brake resistance
23. Emergency brake release back-up system

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REV	Date	Name

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M chanical and electrical specificatior

By builder	Lift manufacturer

Mains power :
Characteristics :
Type of connection to earth :
Main power supply line neutral and earth are separated.
Cable characteristics : Type U1000 R0 2V. Made up of three phases + neutral + aerth wires.
This cable must be protected against overlaods & short circuits.
Cable routing : independant line ending at point A + 4 m (see page 9).
Safety system : By independent distribution circuits.
Calculation of section of lift wires : I = In + Id/3 never greater than 4 mm².
Upstream line, common to several lifts = 100 % of most powerful motor,
75 % of next and 60 % for the others.
Voltage drop : < A 5 % of Id current.
Leakage current : Frequency variation filters, imposed by CEM, cause permanent leakage current between 250 and 300 mA inclusive.
Short circuit current : Must be calculated by the electrician.
Safety circuit against electric shocks and indirect contact : this involves protection upstream of the line (500mA).

Guide rails :
Access for guide rails 2.5 m or 5 m long (see page 10).

Car emergency lighting :
This feature is capable of ensuring car lighting for an hour, in compliance whith standard EN 81.

Landing lighting :
Mean lighting at ground level, near these doors, must be greater than 50 Lux.

Power supply by power generator :
Voltage, current and frequency characteristics must remain within the same tolerance as mains power supply.
Bring 2 wires of 1.5 mm² + 4 m (see page 9) for the connection of these data : Voltage 230 V (Ph + N).

Lighting timer control :
Bring (see page 9) 2 wires of 1.5 mm² to point B + 4 m, per lighting timer, isolated from circuits by a distribution switch.

Indication of level on fire :
The data will be translated in the form of a normally closed contact when the level is not on fire, the contact must be free of any potentiel.
Bring (see page 9) 2 wires of 1.5 mm² to point B + 4 m, for every datum of the level on fire.

Indication of one-car start :
The data will be translated in the from of a normally open contact for normal running. The contact must be volt free.
These data are brought by 2 wires of 1.5 mm² to point B + 4 m (see page 9).

Additional telephone :
Telephone line :
The line must be of the mixed analog type enabling inputting and outputting national calls.

Help request device

Telephone line :
The line must be a dedicated and analog type enabling inputting and outputting national calls.
The input cable must be equipped with a RJ11 6P/4C socket brought to point B + 4 m.
Inside lift shaft near control box

Lift quantity	1
Rated load	630 kg
Capacity	8
Speed	1 m/s

Drive (Data for one lift)

Motor	Thyssen
Number of traction sheaves	1
Traction sheave diameter	240 mm
Suspension	2/1 .
Number of traction ropes	7
Traction rope diameter	6,5 mm
Out put	4,5 kW
Emission of heat	3950 kJ/H
Main power supply	400 V 50 Hz
Start / hour	180
Nominal current	9.5
Starting current	20
Main switch in maintenance box	13A
Type of control	MDC
	.
For car guides	T89_B
For counterweight guides	T50_A

Building structure

Rise	20040 mm
Number of Floors	6
Shaft width	1600 mm
Shaft depth	1700 mm
Pit	1100 mm
Shaft head headroom	4000 mm
Distance between fixing brackets (maxi.)	3300 mm

Doors

Access arrangement	Same side
Type of automatic doors	M2TS11/VF300
Number of landing doors	6
Clear opening width	900 mm
Clear opening height	2100 mm
Arrangement of landing doors	in Nische

ThyssenKrupp Elevator Manufacturing France

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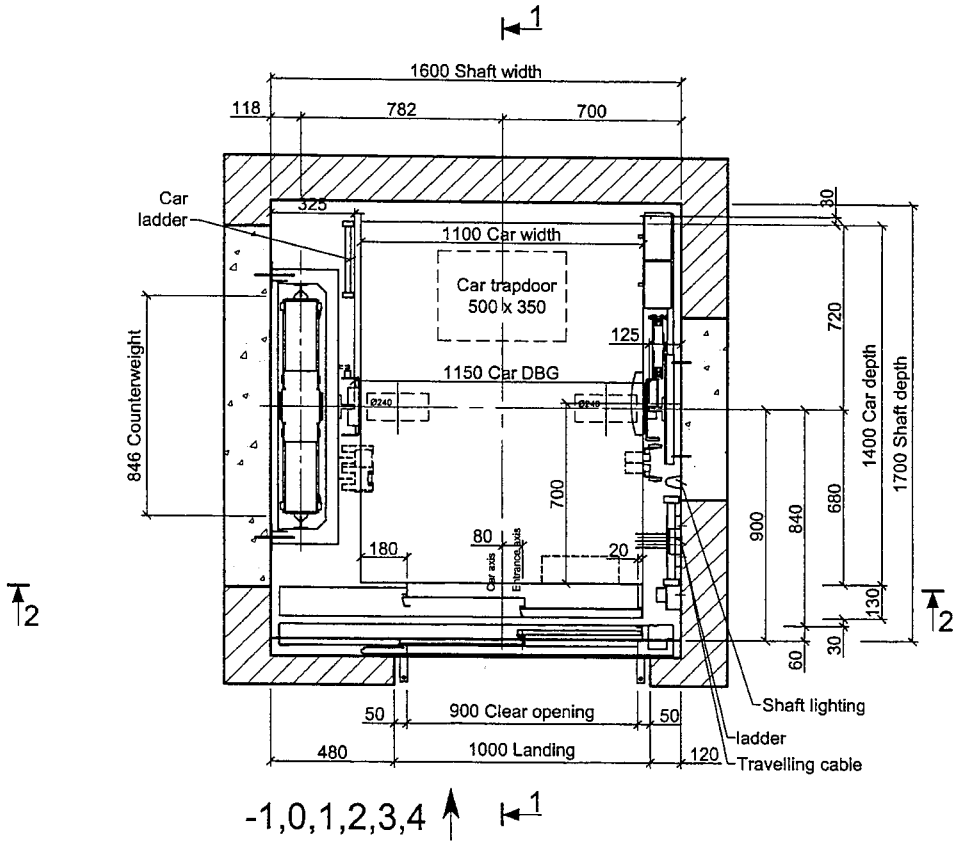
TEDOC045-AM400721-01A

View of shaft - 1/20 scale



Beton

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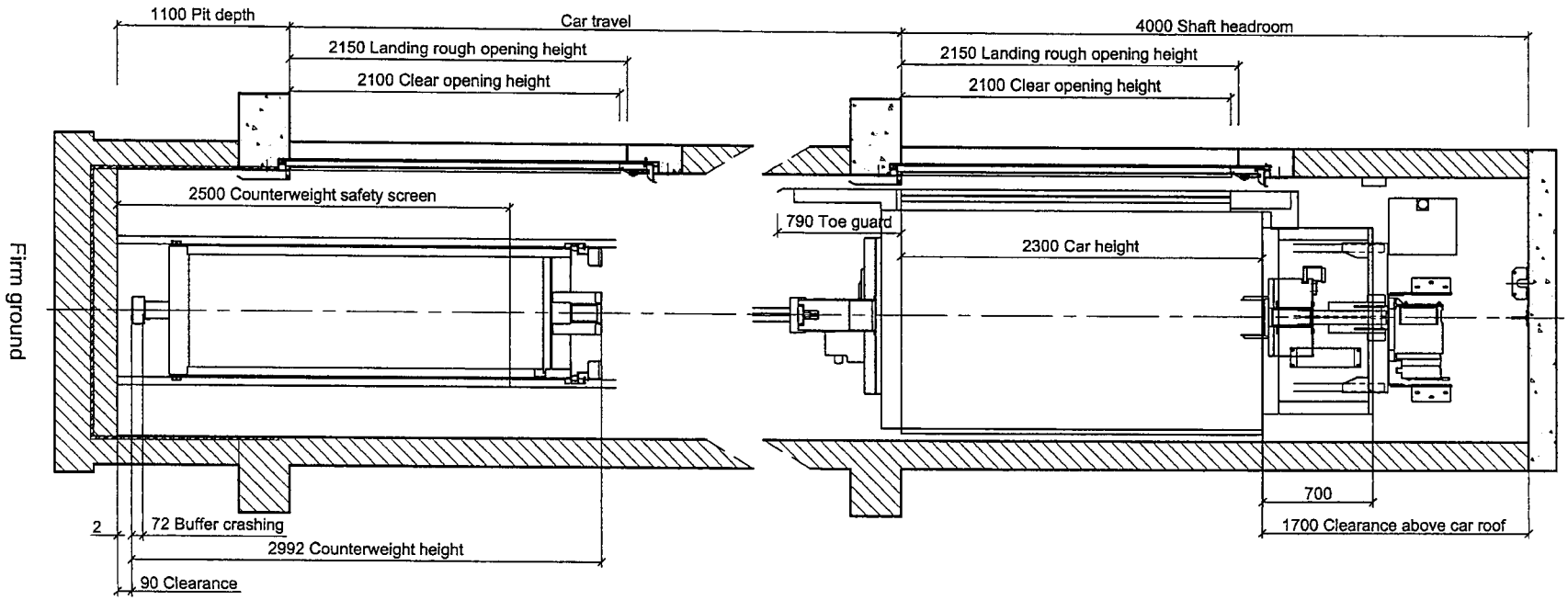
Eleva n view of shaft head and pit - 1/30 ale



Our equipment is fixed by expansive bolts.
Seal must be incorporated in walls
Sealing material coat in pit bottom

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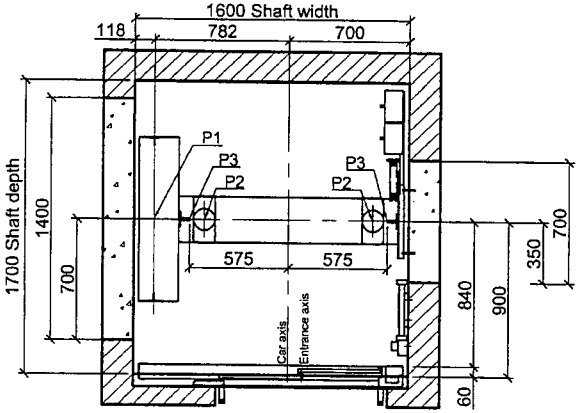
Section 3-3

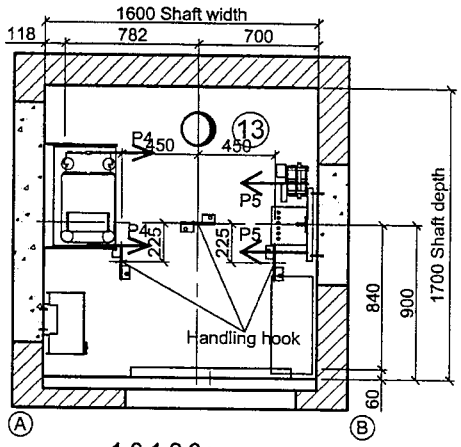
Elevation view of shaft head and pit as per
scale 1/30

Section 4-4

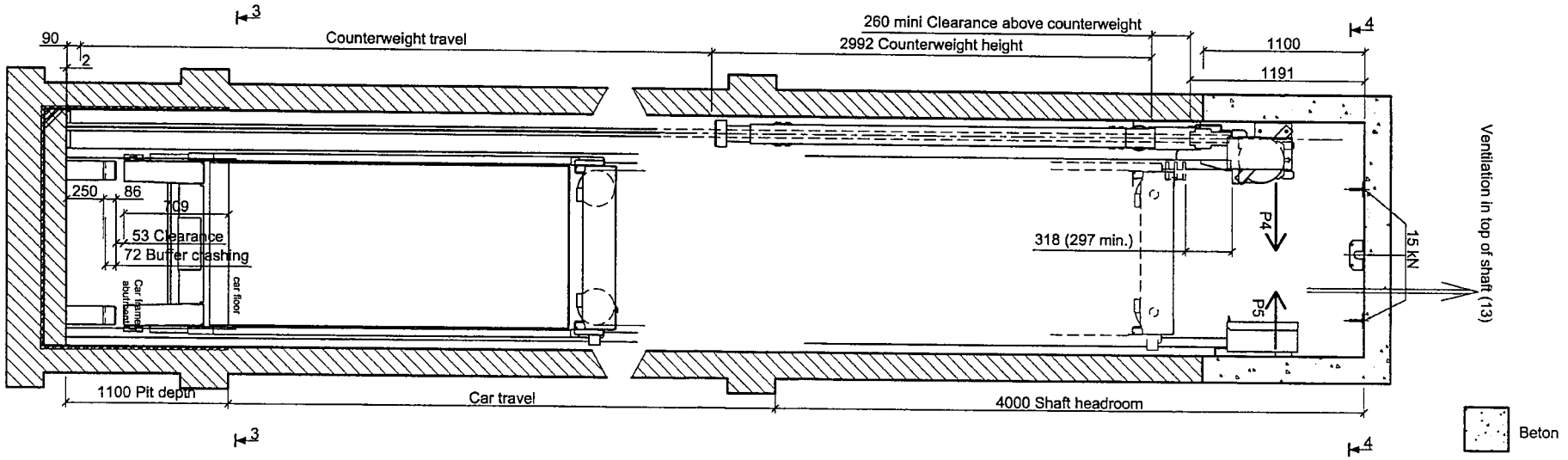


-1,0,1,2,3
,4 Opening Side

Efforts in pit
P1 = 46 kN
P2 = 30 kN
P3 = 21 kN
Motor stabiliser load
P4 = 10 kN
Rope anchorage load
P5 = 10 kN
Type of concrete as per P18305 B20 "without crack" Average strength 25 Mpa (cilinder 16x32) Concrete classified ENV 206 C20/25 "without crack"
General tolerance for concrete : + 10 -10 mm tolerances of plumbness on front wall + 25 -25 mm tolerances of plumbness on side wall + 50 0 mm Shaft headroom + 25 -25 mm Pit depth



-1,0,1,2,3
,4 Opening Side



Section 2-2

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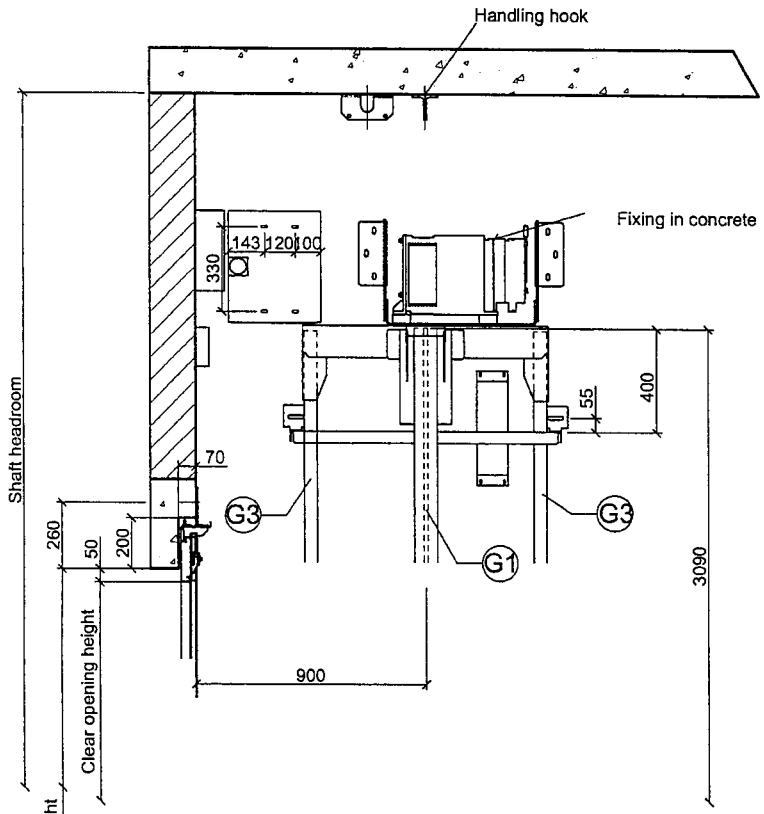
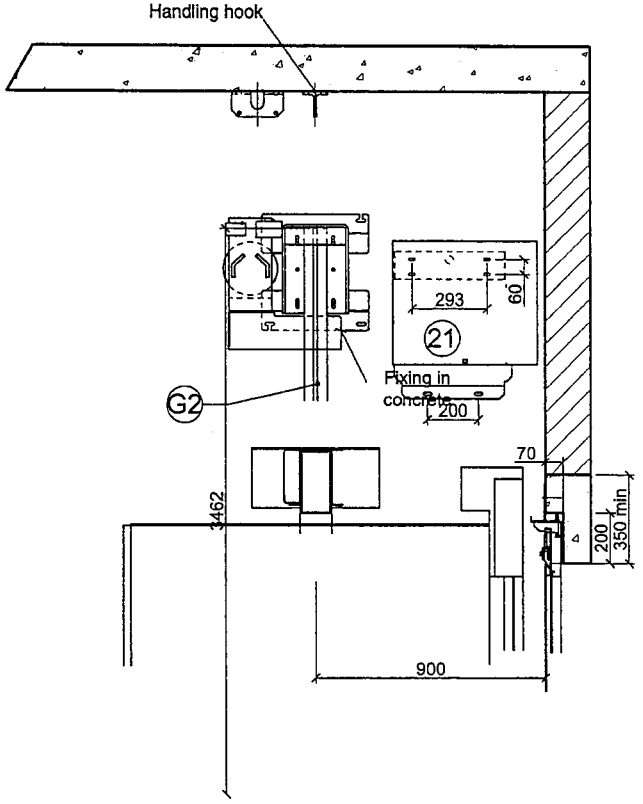
Fixing details o ft equipment on the shaft construc n - 1/20 scale

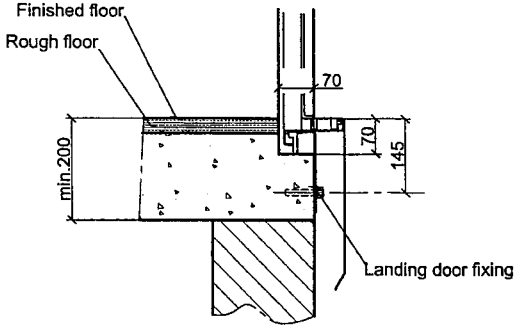
Machine fixing 3-3



Detail of rope anchorage & speed governor

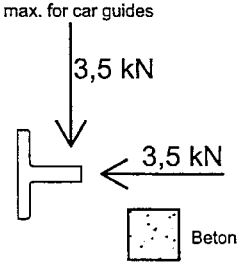


Landing door fixing



G1 - For car on motorside
G2 - For car on rope anchorage side
G3 - For counterweight

Loads max. for car guides



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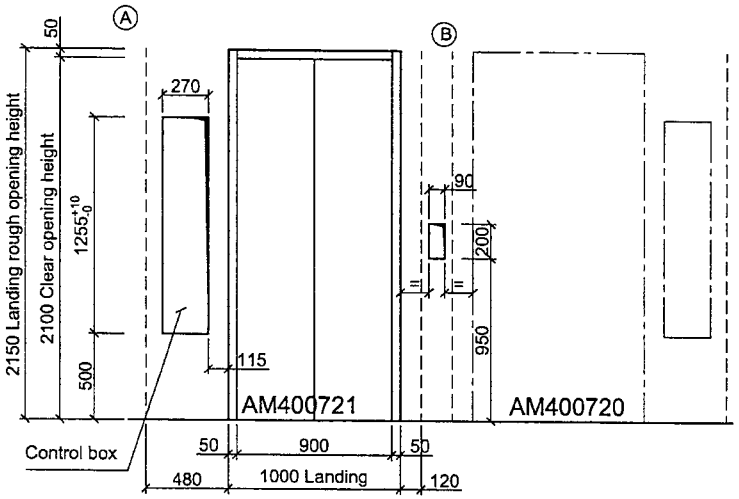
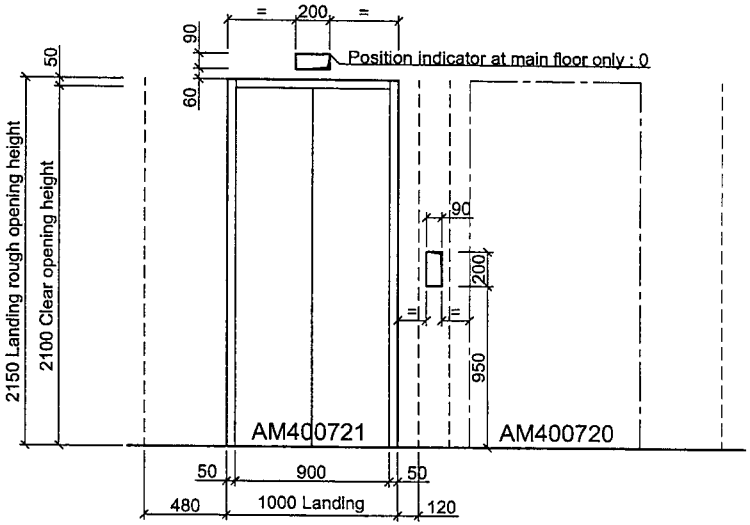
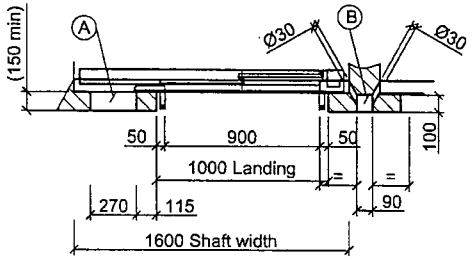
Details of landing openings - 1/30 scale

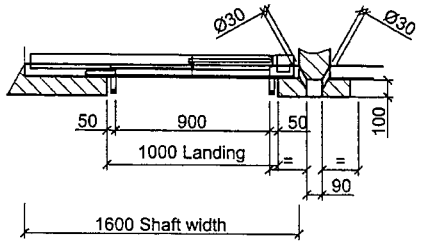
At top terminal level 4



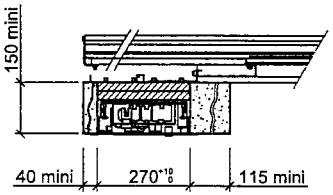
At levels -1, 0, 1, 2, 3







A and B reference points for electric wiring cables (see page 4)



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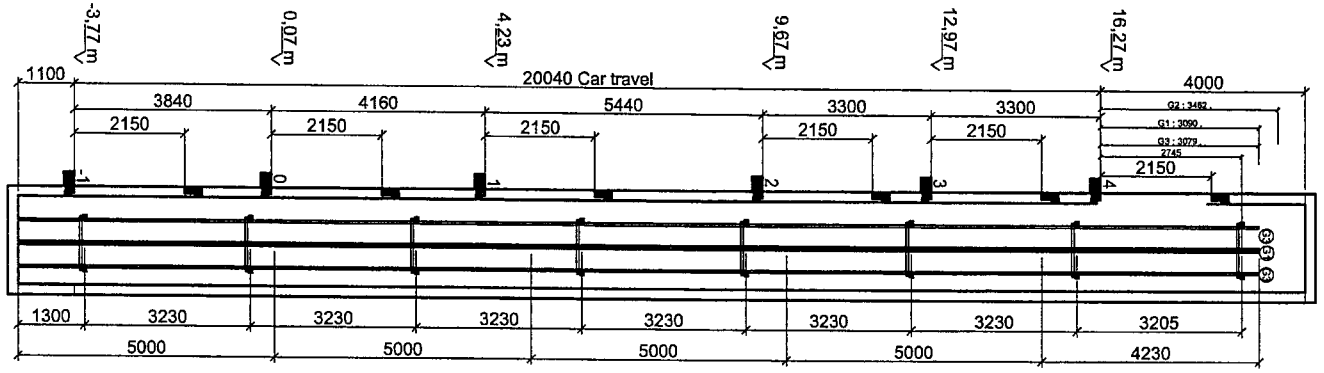
Shaft elevation scale : 1/100



GUIDE LENGTH
G1 - For car on motorside 1 Bar 5000 mm 3 Bar 5000mm 1 Bar 4230 mm
G2 - For car on rope anchorage side 1 Bar 5000 mm 3 Bar 5000mm 1 Bar 4602 mm
G3 - For counterweight 2 Bar 5000 mm 6 Bar 5000mm 2 Bar 421[illegible]

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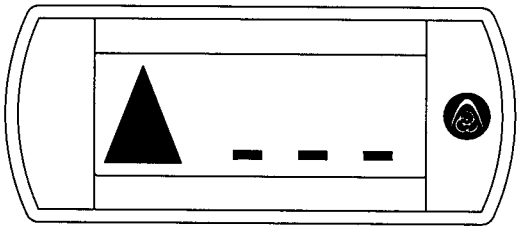
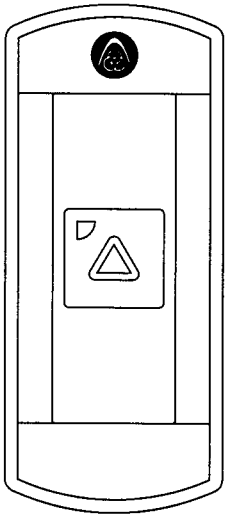
Signalling

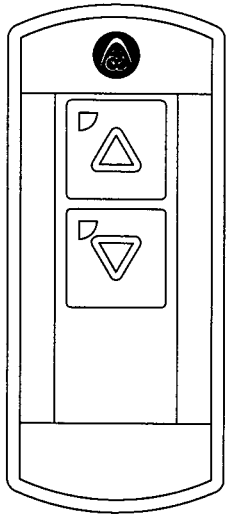
Levels : 0



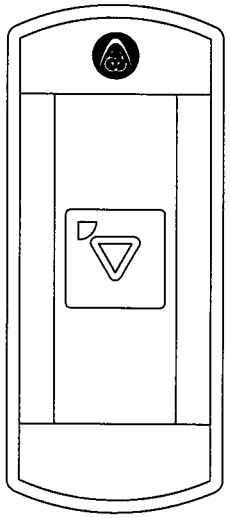
Levels : -1



Levels : 0, 1, 2, 3



Levels : 4



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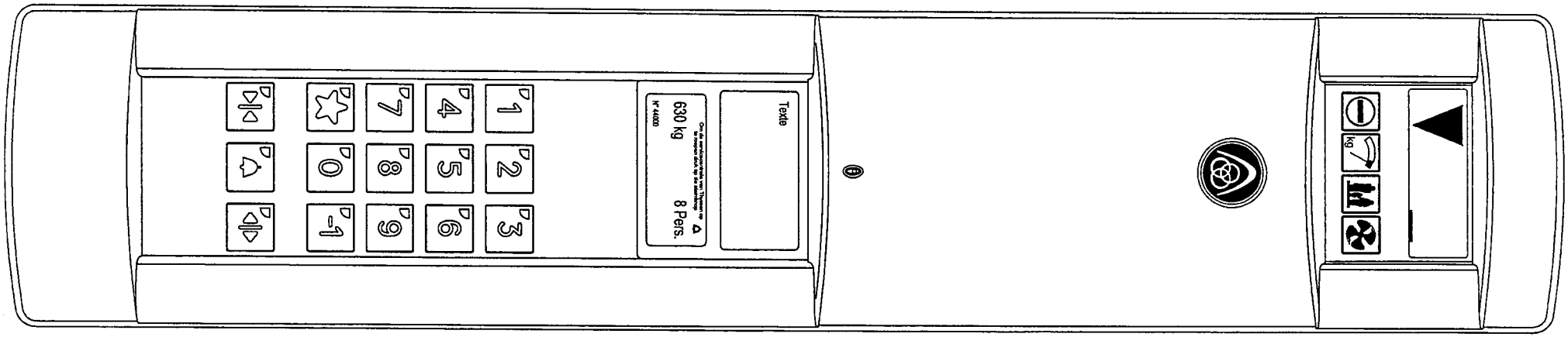
Control panel



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Schemat olinowania dźwigu Isis nr: AM 400721