



Minimum headroom 2500mm New Buildings
Flat roof
New Buildings
Existing Buildings



GRLflat

- Applications
- Advantages
- Normative
- Application range
- Configurations
- Power and consumptions
- Energy efficiency
- Cabines and finishes
- Gallery

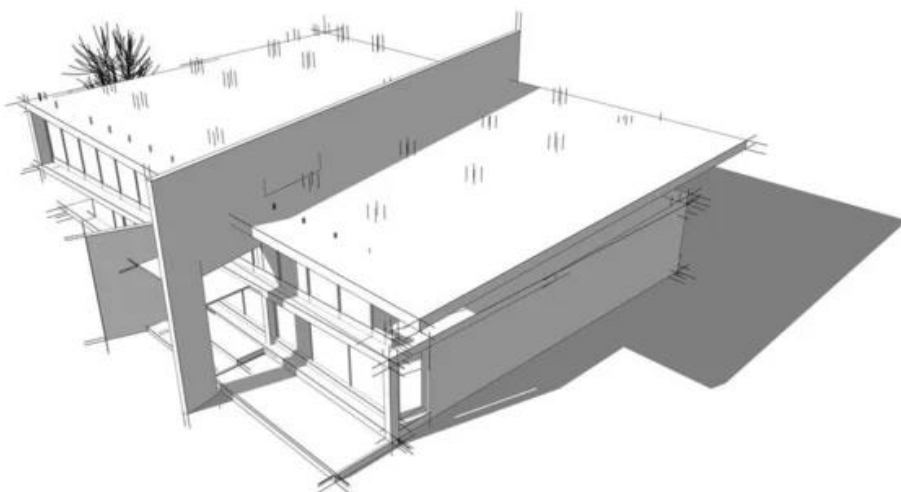
Flat Roof Buildings



The **GRLflat** range of elevators has been designed for buildings with flat roofs where it is not necessary to build overhangs for the elevator machinery. This contributes to the use of roofs in buildings for solar panels, terraces, apartments etc.



UE
EXAMINATION DESIGN TÜV



Applications

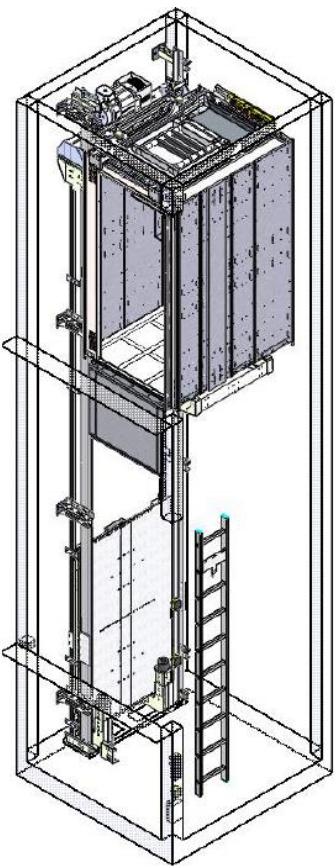
- New building / Existing
- Residential
- Commercial
- Offices

Advantages

- Minimum headroom 2500mm
- New buildings EN81-20
- Fiability
- Modernity
- Simple, double, triple entrances
- 3-phase / Single phase

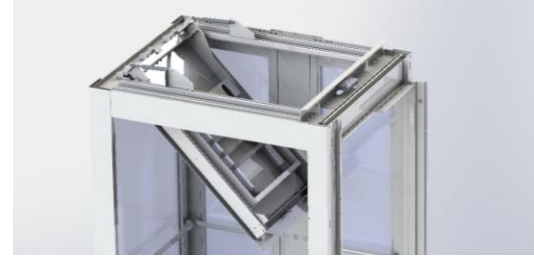
Normative

- 2014/33/UE
- EN81-20
- EN81-70



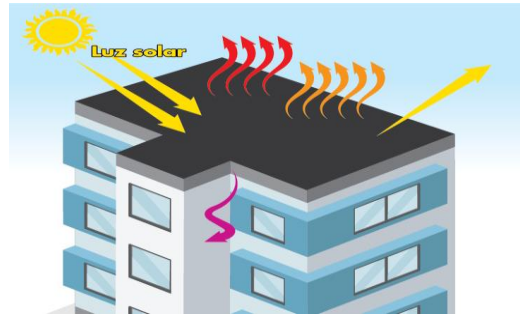
Application range

Load (Kg)	375/480/630/800/1000
Speed (m/s)	1
Machine room	Machine Room Less
Entrances	0° / 90° /180° / 270° / Triple
Travel Max (m)	50
Suspension	1:1 / 2:1
Voltage (V)	230II / 230III / 400III
Car Frame	Mochila
Pit (mm)	1200mm
Headroom(mm)	2500-3400mm
Panoramics	SI



Advantages

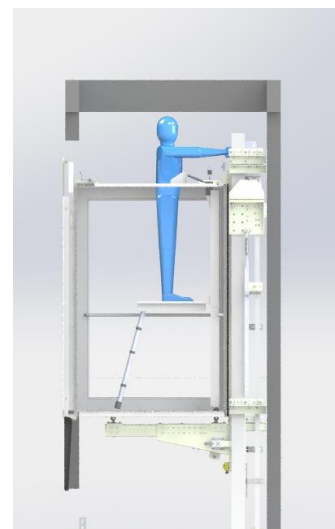
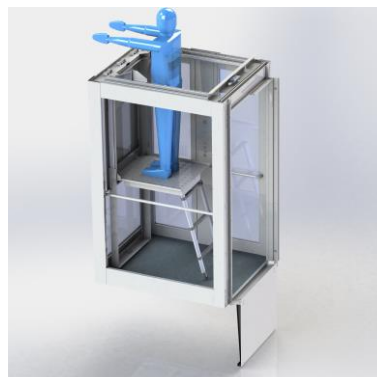
- FLAT ROOF
- CONSTRUCTION OF BUILDINGS WITHOUT UPEER PROTUSIONS
- BETTER THERMAL INSULATION



- ROOF FREE FOR US SOLAR PANELS, TERRACES, ETC.



- MAINTENANCE FROM INSIDE CABINE
- WORK PLATFORM INTEGRATED
- SAFE MAINTENANCE INSIDE CABINE



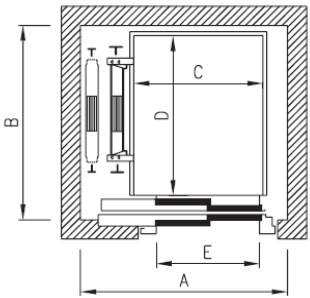


Configurations

➤ Consut availability and disponiblility according configurations

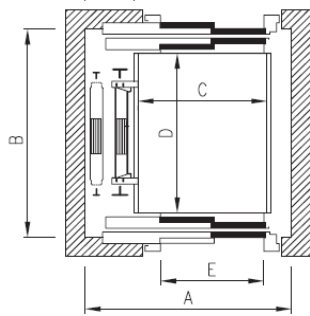
➤ Single Entry

Load	Shaft	Cabine	Clear Op	V	HR (min)	Pit
Kg	AxB mm	CxD mm	E mm	m/s	mm	mm
375	1400x1500	900x1200	700	1	2500	1100
480	1550x1550	1000x1300	800	1	2500	1100
630	1600x1700	1100x1400	900	1	2500	1100
800	1750x1900	1100x1600	900	1	2500	1200
1000	1750x2400	1100x2100	900	1	2500	1200



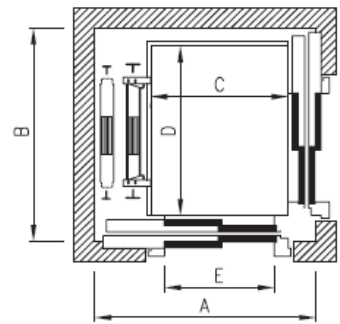
➤ Double entry 180°

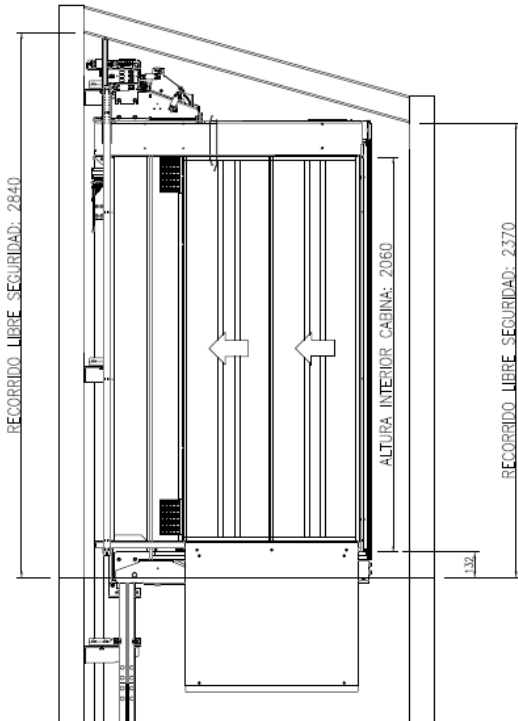
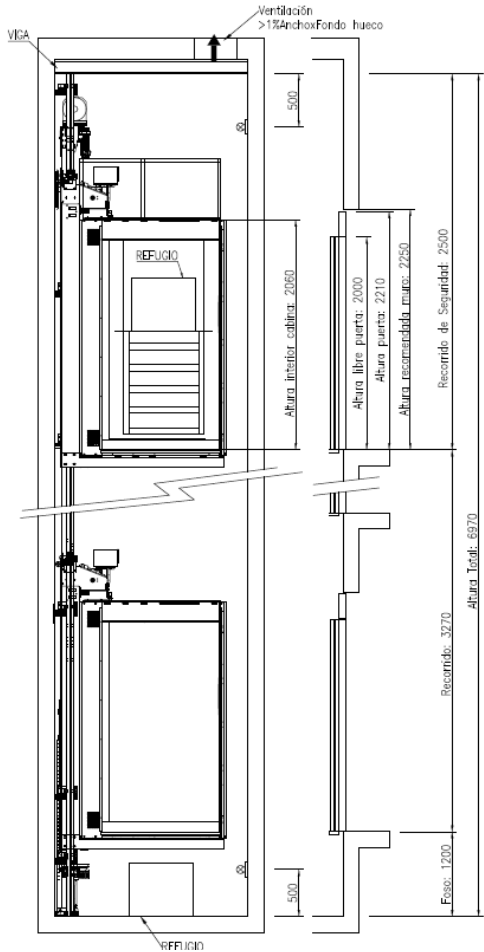
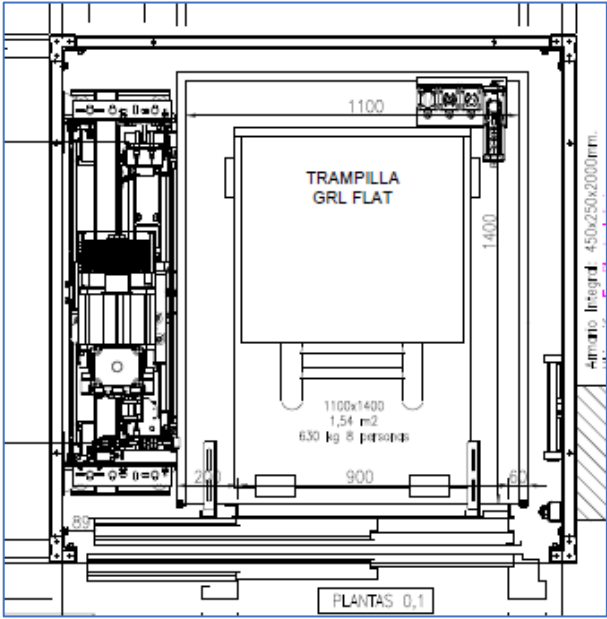
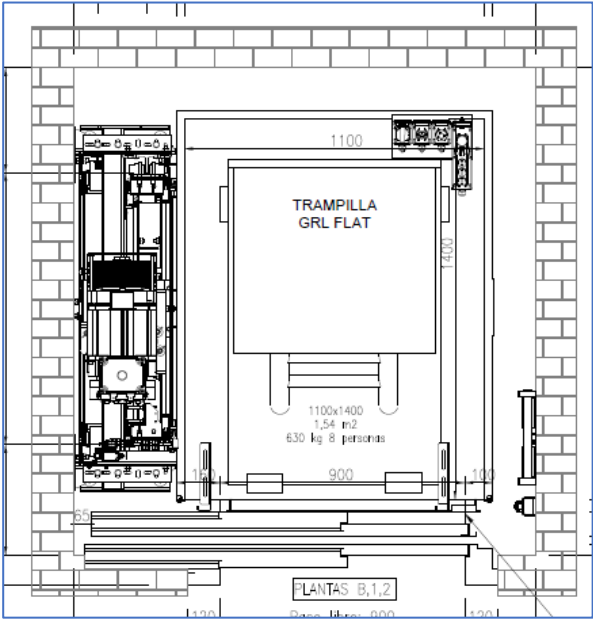
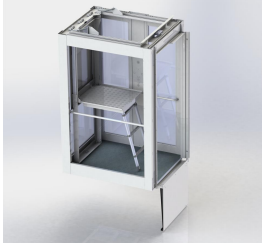
Load	Shaft	Cabine	Clear Op	V	HR (min)	Pit
Kg	AxB mm	CxD mm	E mm	m/s	mm	mm
375	1400x1600	900x1200	700	1	2500	1100
480	1550x1750	1000x1300	800	1	2500	1100
630	1600x1800	1100x1400	900	1	2500	1100
800	1750x2000	1100x1600	900	1	2500	1200
1000	1750x2500	1100x2100	900	1	2500	1200



➤ Double entry 90°/270°

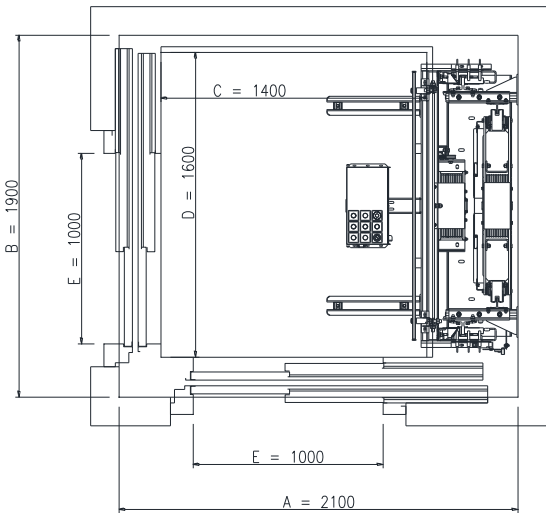
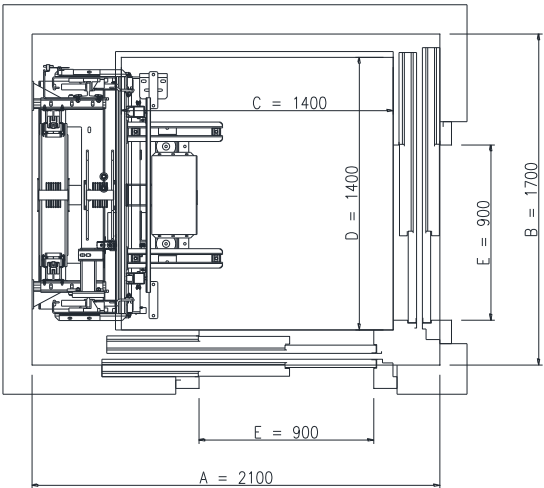
Load	Shaft	Cabine	Clear Op	V	HR (min)	Pit
Kg	AxB mm	CxD mm	E mm	m/s	mm	mm
375	1500x1500	900x1200	700	1	2500	1100
480	1650x1550	1000x1300	800	1	2500	1100
630	1750x1700	1100x1400	900	1	2500	1100
800	1850x1900	1100x1600	900	1	2500	1200
1000	1850x2400	1100x2100	900	1	2500	1200



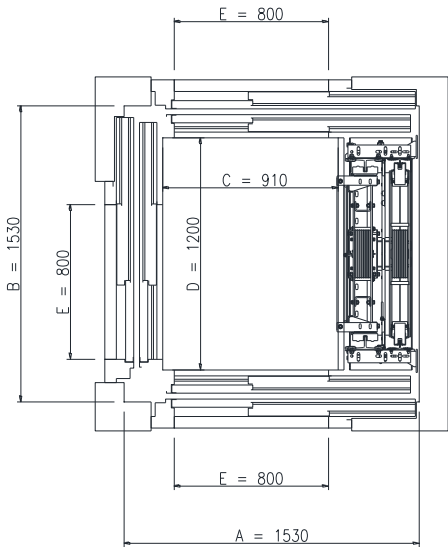
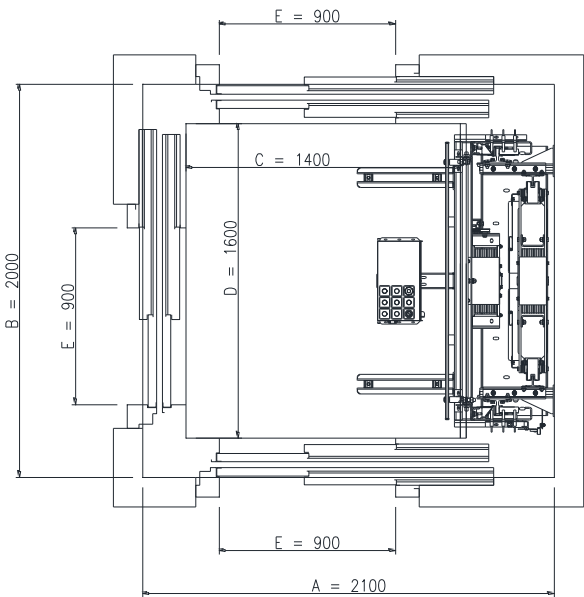


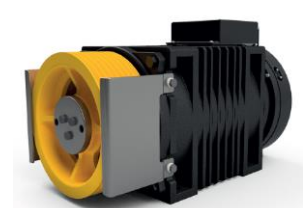
Accesibles EN 81-70

Double entrance configurations 90°/270°



Triple entrance configurations





Power and consuptions

3 Phase	375 Kg		480Kg		630Kg	
Voltage	380III	230III	380III	230III	380III	230III
P (Kw)	3,3		3,3		4,4	
In (A)	8	12	8	12	10	15
V (m/s)	1		1		1	

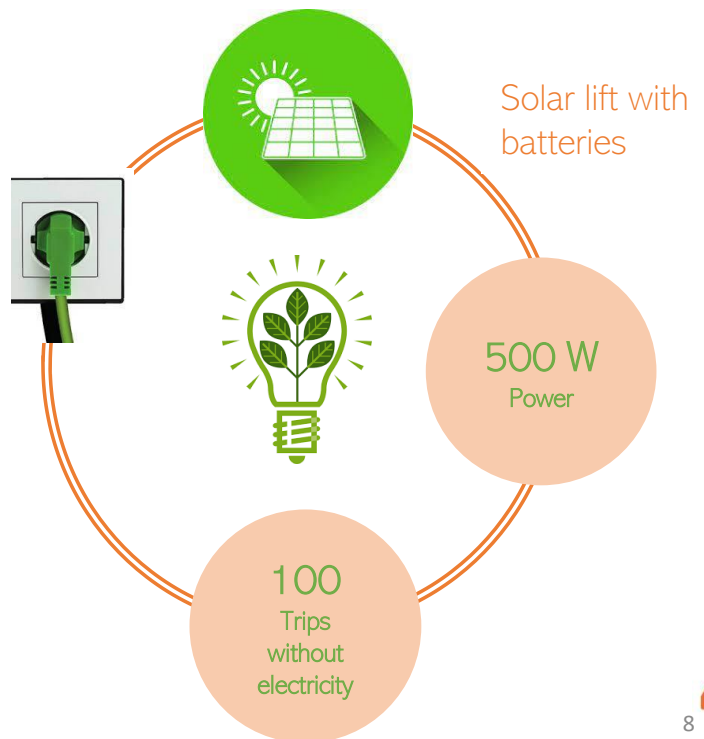
3 Phase	800Kg		1000Kg	
Voltage	380III	230III	380III	230III
P (Kw)	5,5		7,1	
In (A)	12	18	15	22
V (m/s)	1		1	

Single Phase	375 Kg	480Kg	630Kg
Voltage	230II		
P motor (Kw)	1,4	2,1	2,9
P absorbed (Kw)	2,8	4,2	3,8
In motor (A)	7,5	8,7	10,2
In absorbed (A)	13,5	15,7	18,4
V (m/s)	0,6		

Energy Efficiency

Optional: System P2S Epic Power

- Single phase 220II
- Load <630Kg
- Power 500w
- 100 trips without electricity
- Energy recovery system
- Solar panel connection
- Energy reduction up to 70%

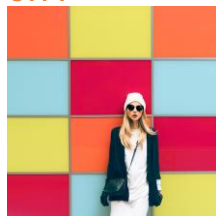


Cabines and finishes

- Cabines brochure **FELESA SMART** Series
- 8 finishes range



CITY



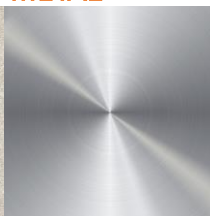
NATURE



TEXTURE



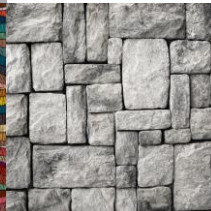
METAL



CRYSTAL



ETNIA

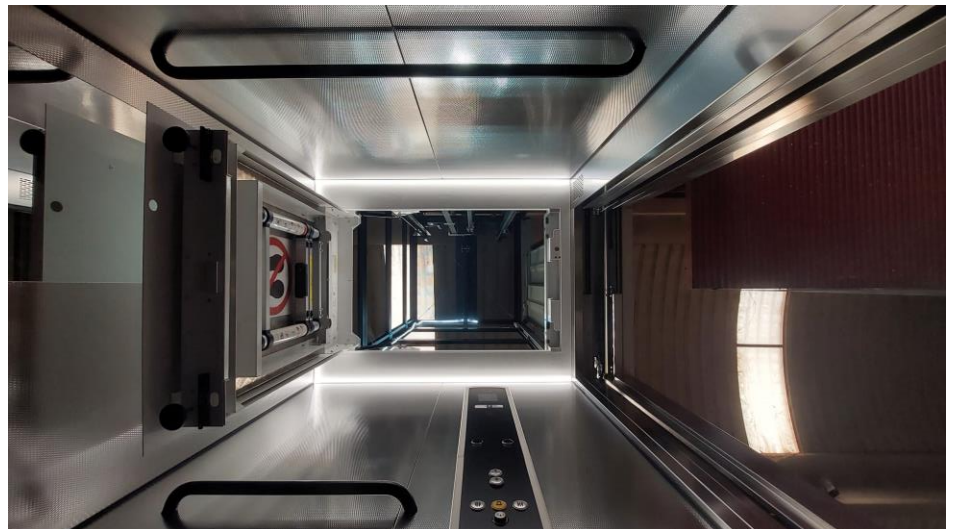


STONE



TEXTURE







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