

DELUX SCM GEARLESS LIFTS BY CTV

320-2000 KG

BESPOKE LIFT SOLUTIONS CUSTOMISED TO YOUR NEEDS

PRODUCT DESCRIPTION



PD102_00 EN

15/06/2020



www.ctvlifts.com

MRL DELUX

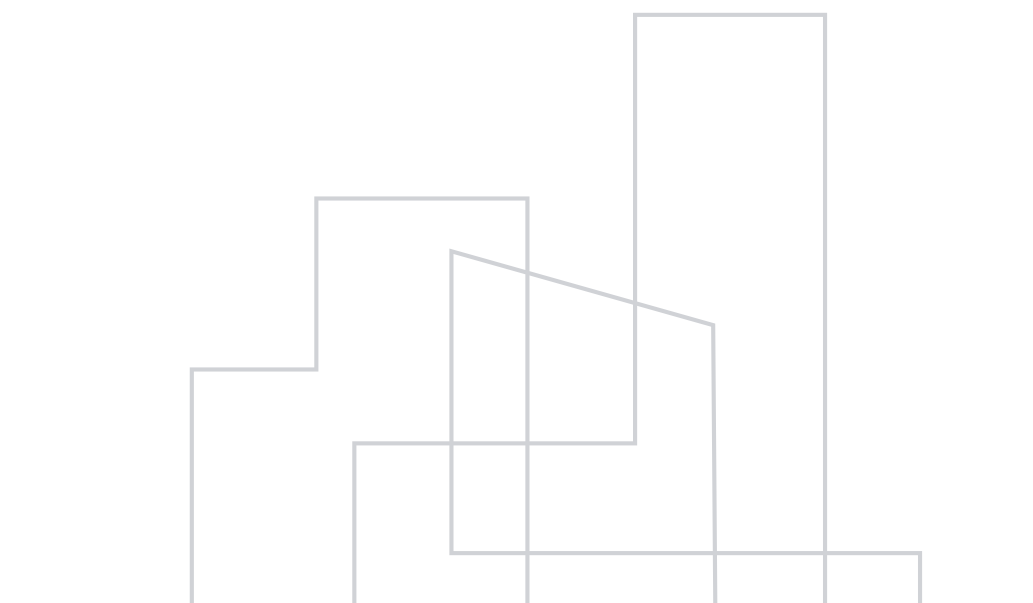
CTV has been designing lifts for the most demanding markets since 1998. We have been improving our designs to meet the quality demands of our customers.

Our **MRL Delux** elevator is an example of our ability to adapt to the different needs of the market, while maintaining a high standard of quality.

The MRL Delux is a flexible solution that can include a wide range of component options to suit any environment and fulfil our customers requirements.

CTV - MINSTER COURT BUILDING, LONDON

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COMPONENTES DE TRÁFICO VERTICAL



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A large, dark, abstract image of a lift shaft with a yellow, ribbed interior, serving as the background for the left side of the page.

COMPLIANCE WITH STANDARDS

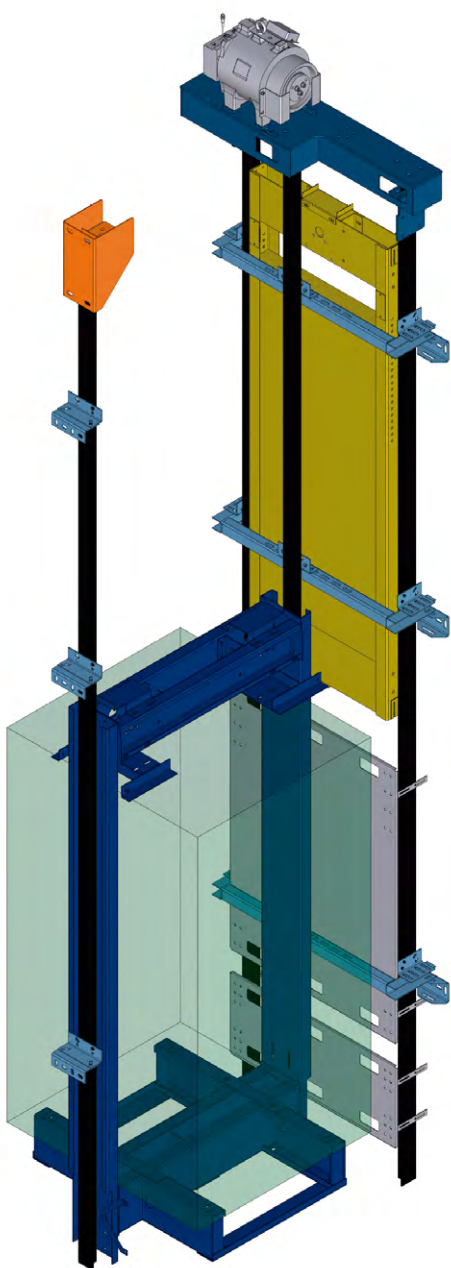
Designed in accordance with the Lifts Directive 2014/33/EU so it is possible to market them in any country of the European Union.

Conformity through compliance with the harmonised standard EN 81-20 and 50.

The MRL Delux can be easily modified by our in house design team to suit installations within existing buildings with reduced pit and headroom clearance whilst ensuring compliance with the harmonised standard EN81-21.

CTV is extremely accomplished in the innovation required to install lifts in the most challenging of environments and has built a solid reputation in the UK & European in this field of expertise.

GENERAL DESCRIPTION



DELUX model is a **MRL gearless** solution for a payload from **320 to 2000 kg**, **2:1** roping, center guiding system with a progressive bi-directional safety gear. It can be supplied with a top slung or under slung arrangement. **Divertors pulleys are made by polyamide** and can be supplied made by Iron cast upon request.



DELUX design comprise possibilities for having a significant empty load + wide range of payload. Therefore different car & door finishing solutions are possible.



1000 kg payload model is available with two different solutions:

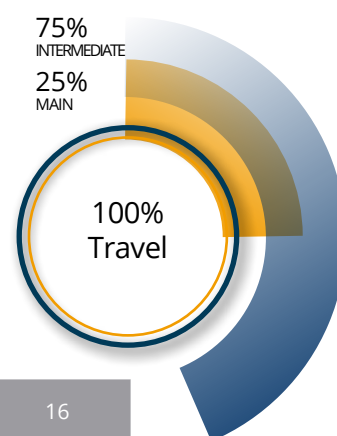
- Stretcher lift.
 - Standard passenger lift.
- Check our standard drawings



They are **lifts for high quality ride suitable for medium / high duty traffic solutions.**

25% of the total daily rides are considered to be from the main floor to another. The majority of them are considered to be in between the intermediate floors. It is a record related with lifts prepared for high duty solutions.

Motor to be calculated for 180 starts/hour or 240 starts/hour upon customer request.



Maximum number of stops	16
Maximum travel (m)	40
Speed range (m/s)	1 - 2
Daily trips with more than 50% of the load	1600
Starts / Hours	180 - 240

Options

- Car mounted OSG is available upon request.
- Car mechanical interlock for service operations available upon request.

Traction ropes and calculation

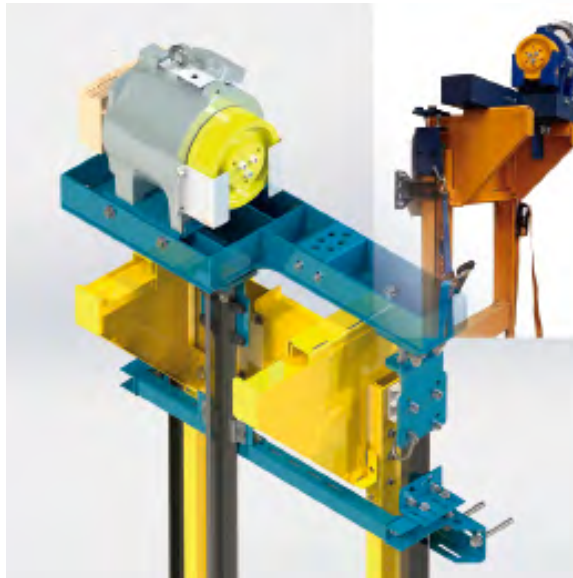
- Traction ropes Ø6.5 mm and traction pulley Ø240 mm.
- Traction ropes Ø8 mm and traction pulley Ø320 mm. Optional for the 320 to 1000 kg range and standard for the 1275 - 1600 kg range.
- Traction ropes Ø10 mm and traction pulley Ø320 mm for 2000 kg.



ROBUST AND BESPOKE

MECHANICAL PACKAGE

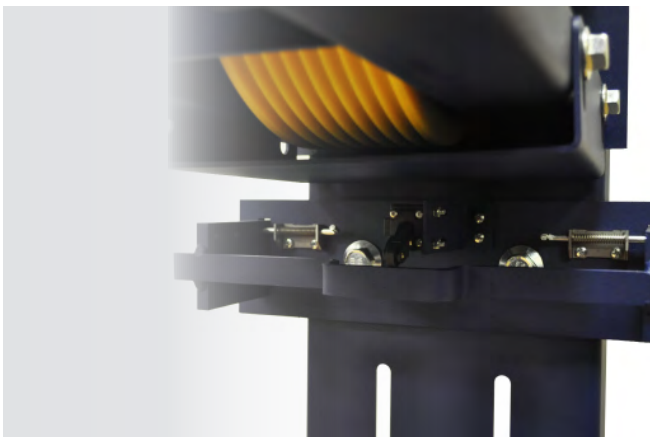
The Machine positioning tool (MPT) was developed by CTV using its own engineering knowledge and feedback from its customers in the UK. The MPT eliminates the need for additional often obstructive lifting eyes needed to position the machine bedplate, in shafts with reduced clearance. The innovation and support CTV offers with its products such as the MPT has earned itself a quality reputation particularly with lift installers, who appreciate our logical design and component quality.



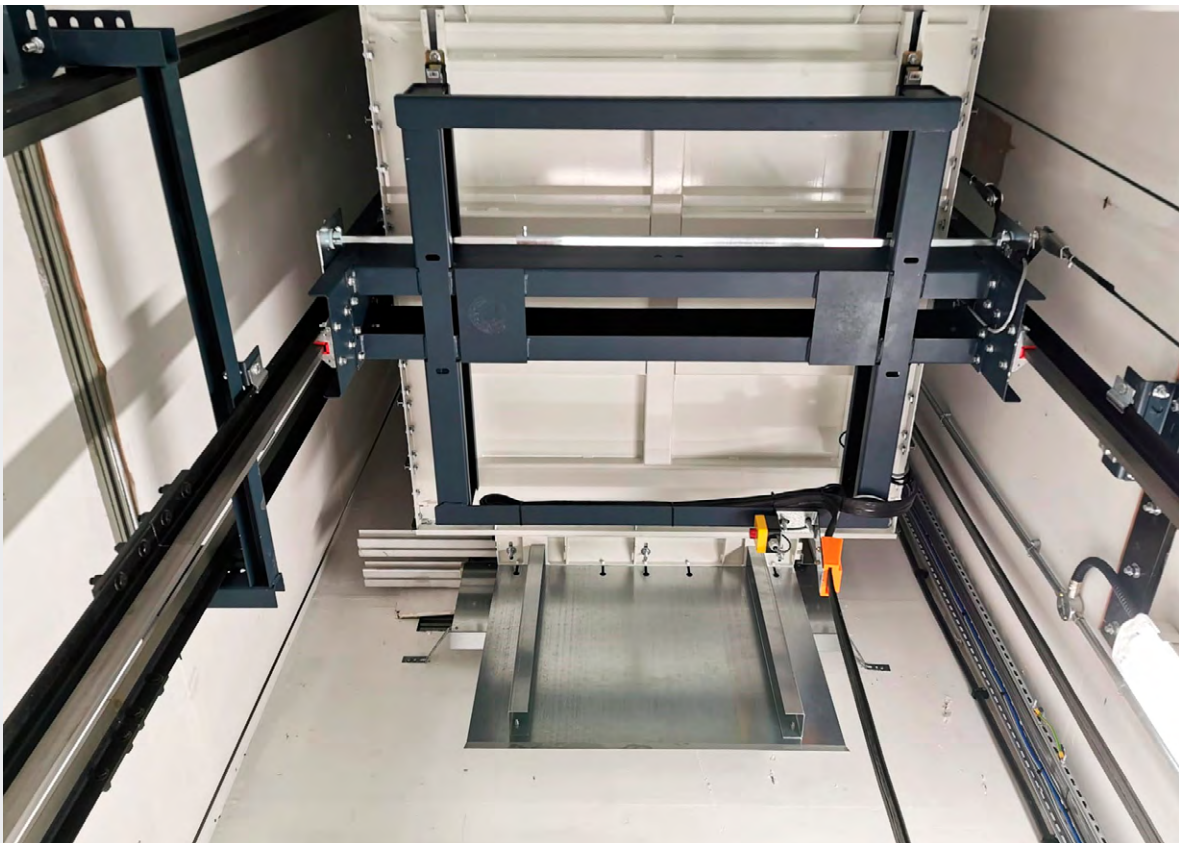
High standard of safety and quality assured for our rope traction calculations. Long lasting life expectancy guaranteed.

* Reduced sized sling arrangement for demonstration purposes only.

High quality confort ride assured.



Wide range of wall regulation available with our guide brackets.

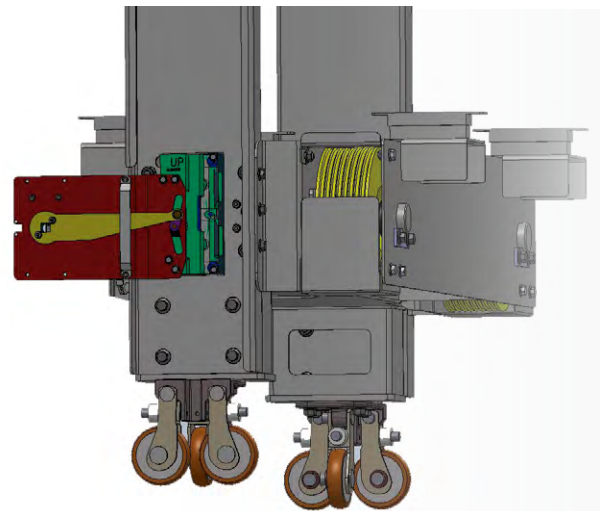


Bespoke mechanical package can be offered in several configurations and include quality ancillary components.

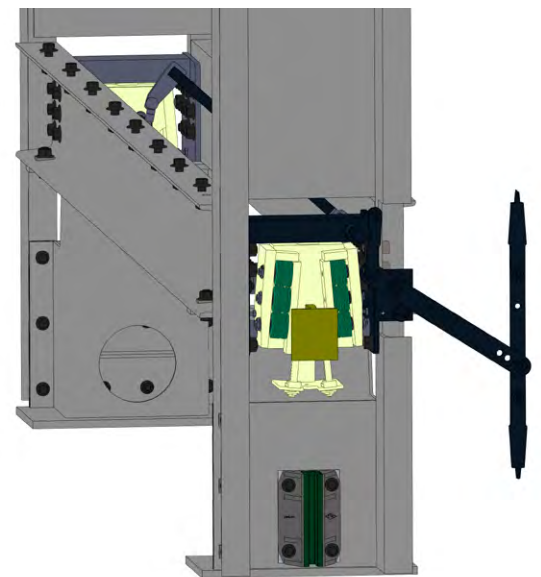
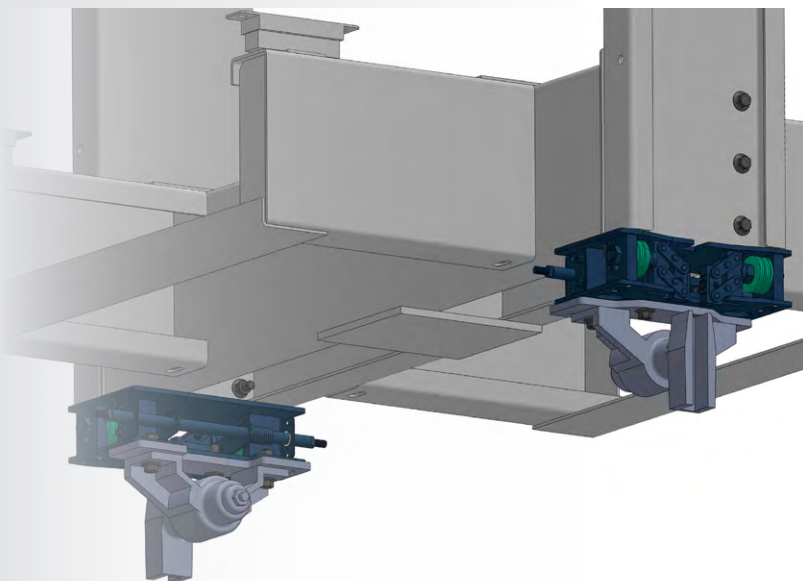


Springloaded buffered roller guides shoes, by ELSCO, ETN, others.

Topslung or underslung arrangement to suit with the pit / headroom requirement.



CTV can supply Asymetric or **symmetric** safety gear (**VG**, Schlosser, Dynatech) for our mechanical packages.



CTV can offer heavy duty lifts with increased material & component strength, suitable for trolleys, bedsand forklifts. The uprated design measures implemented ensures the installations safety and build quality is not compromised.



CUSTOMIZED CAR FINISHES



OTHER CAR OPTIONS

www.ctvlifts.com

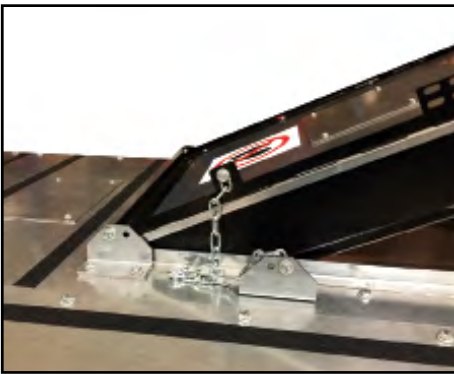


WIDE RANGE OF SOLUTIONS

FOR COMPLIANCE WITH STANDARDS



CTV designs and manufactures lifts with full compliance to the European standard **EN81.72** (Fire Fighting Lifts).



CEILING TRAP DOOR



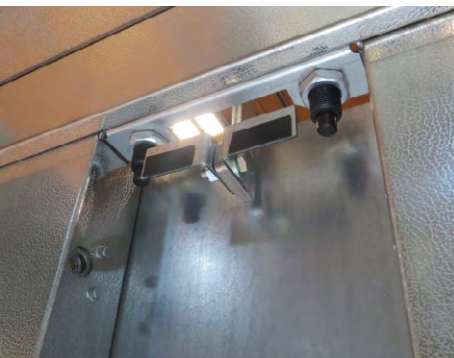
INTERIOR EVACUATION LADDER



EXTERIOR EVACUATION LADDER



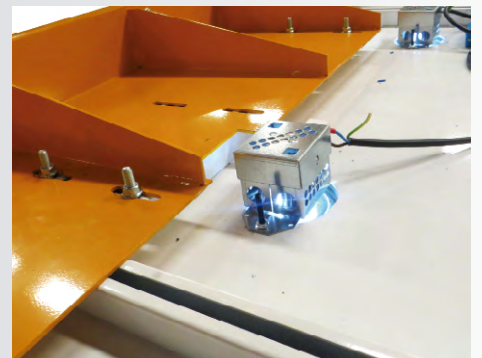
CTV designs and manufactures lifts with full compliance to European standard **EN81.71 CAT2**



COP ASSEMBLY



HIDDEN VENTILATION



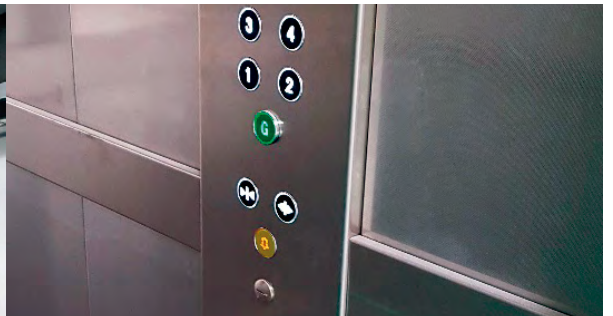
CAR LIGHTING



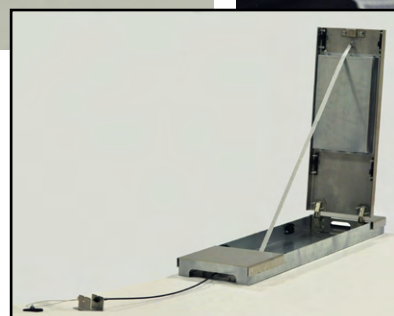
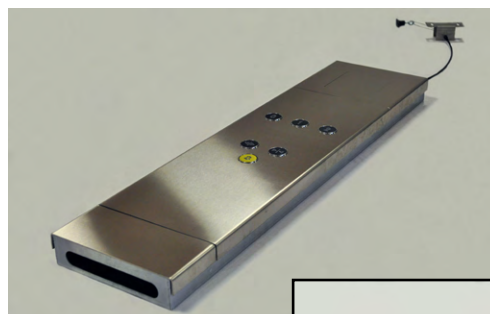
CUSTOM-MADE OPERATING PANELS



Fully bespoke car station panels and landing operation panels, designed to suit any third party push buttons and indicators.



We also manufacture car push-button panels that comply with both EN81.72 (firefighter lifts) and EN81.71 CAT 2 standards.



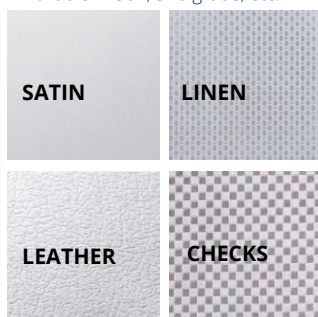


INSPIRATION

WALLS

STAINLESS STEEL FINISHES
AISI441 Y AISI304

*Available in 304, 316 grade, etc.



FLOOR

⁽¹⁾ ARTIFICIAL STONES⁽¹⁾ NATURAL STONES⁽¹⁾ WITH A MAXIMUM THICKNESS OF 25MM.

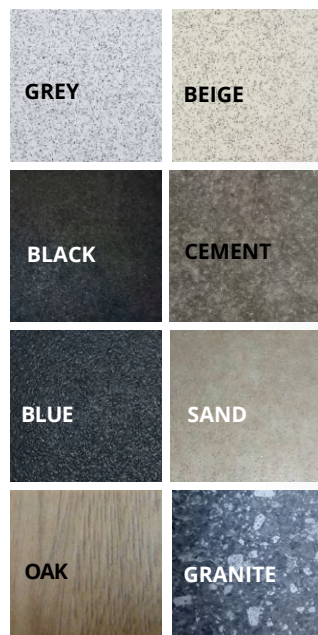
Flooring to be prepared for having a tiling solution by the customer.

FORMICAS

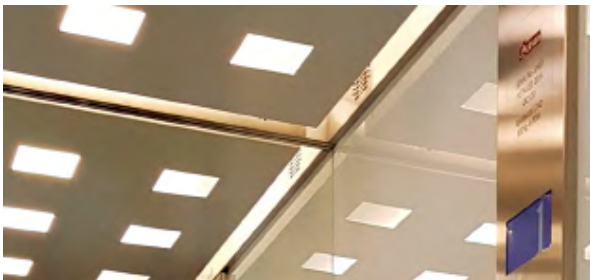


* This finish does not comply with EN81.20-50.

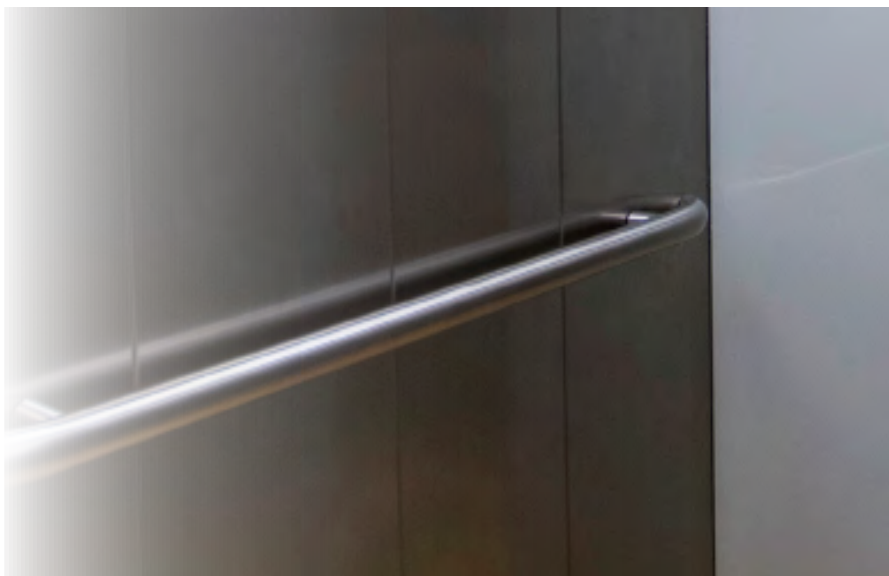
ANTI SLIP RUBBERS



CUSTOMIZED SOLUTIONS FOR CAR CEILING



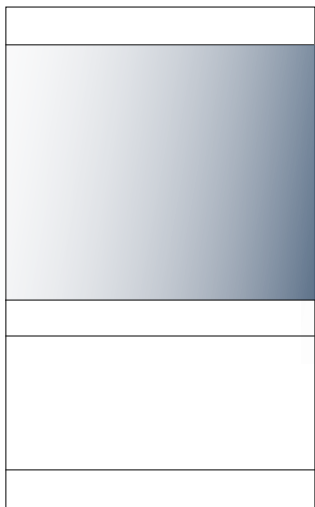
HANDRAILS



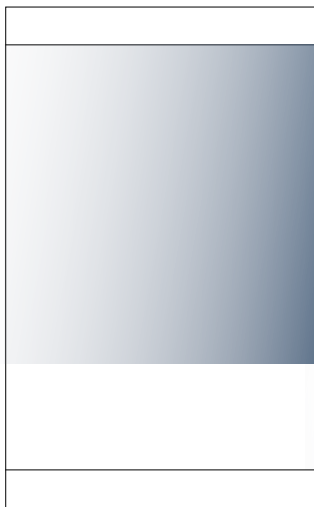
MIRROR CONFIGURATION



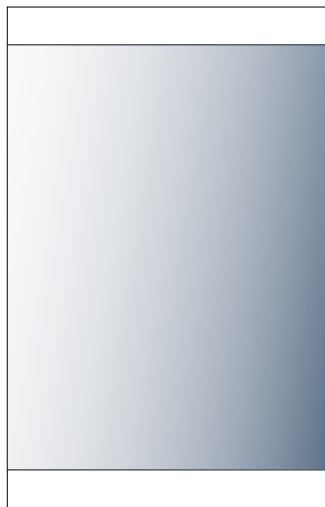
*STRIP



HALF MIRROR



3/4



*FULL MIRROR

*These options will include a 300 mm (lower) skirting for compliance with EN81-70.



NEW LIFT GERMAN CONTROL SYSTEM



OPTIONS

- Remote monitoring of the elevators.
- Halogen-free cables.
- Controller with destination control.
- Group controller. Control of 8 lifts.
- Speed up to 4 m/s as standard.
- Available with Regen.





HIGH PERFORMANCE GEARLESS MACHINES

SASSI G-300



ACT - CEGI



OPTIONS TO RAISE ENERGY EFFICIENCY



Option upon request available for enhancing the energy efficiency according to the standard ISO 25745-2 or German standard VDI4707.

- Standby Controller Energy consumption can be lowered through different methods, switching off the inverter and others.
- Energy recovery devices available upon request, such as Regen by Ziehl Abegg.
- High efficiency motors available.





HIGH PERFORMANCE DOOR EQUIPMENT



PEGASUS WITTUR DOOR

CTV provide doors from the worlds leading manufacturers, such as Wittur, Fermator, Meiller, etc.

We can supply doors for:

□ Standard compliance with:

EN81.71 CAT I o CAT II. Even more robust options can be added, such as door panels with an upper sheet thickness at the bottom (> 5 mm).

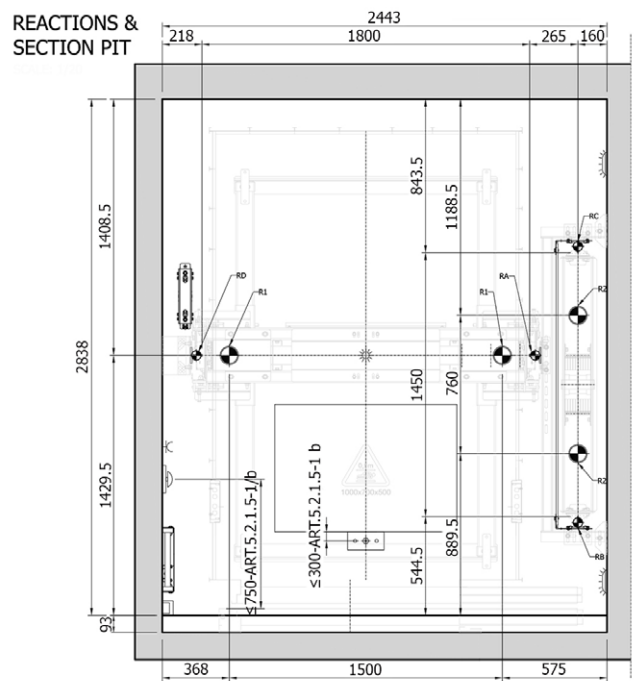
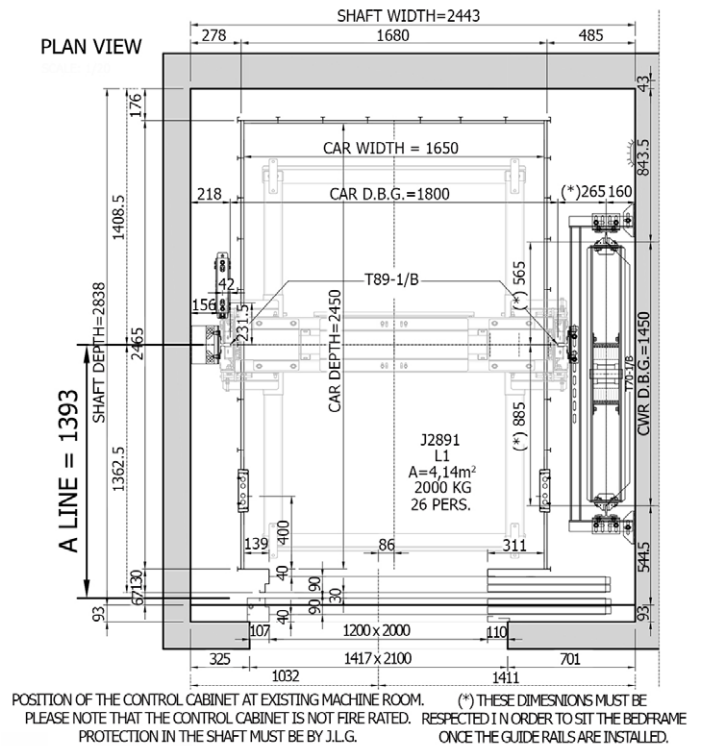
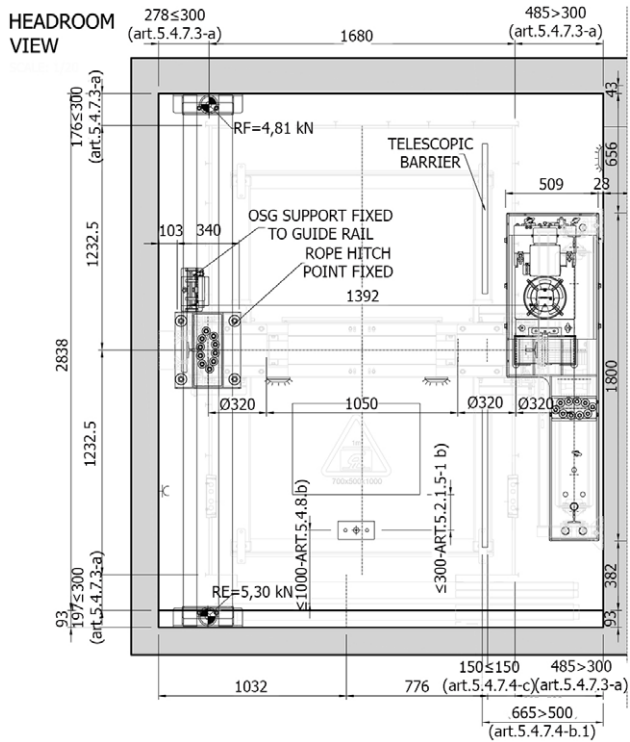
EN81.72

□ High-speed elevators.

□ Lifts for industrial environments.

CTV lift cars can be designed and prepared for other reputable door manufactures such as GAL and Fermator 'Robusta' range.

DRAWINGS

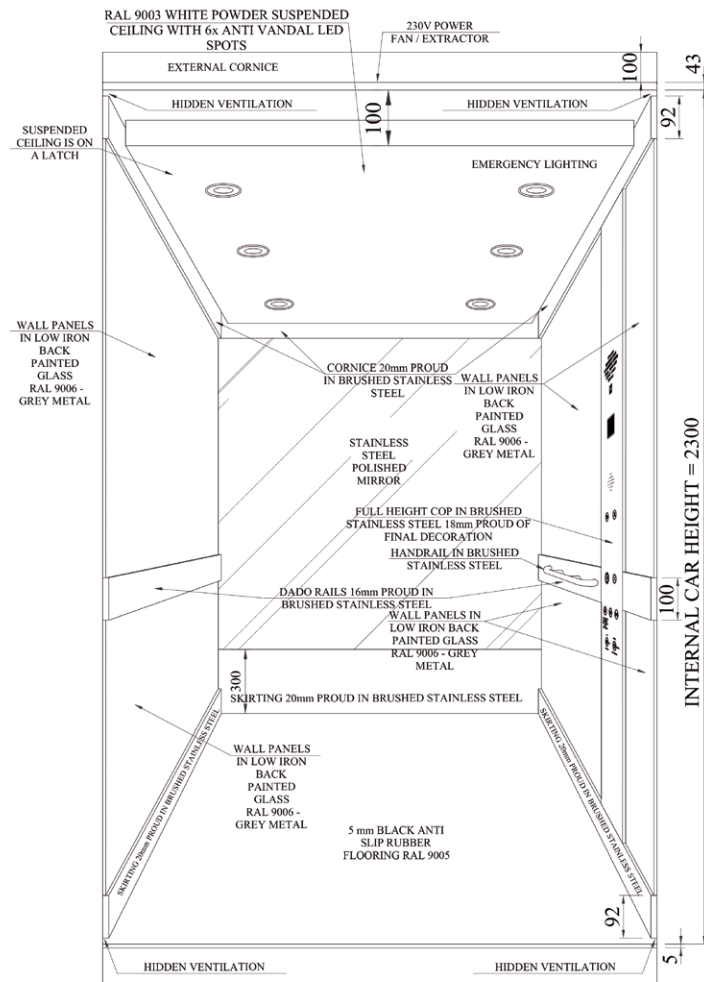


These plans are not to scale.

LIFT TO COMPLY TO
FOLLOWING REGULATIONS:
BS EN81.20/50
BS EN81.28
BS EN81.58
BS EN81.70
BS EN81.71 CAT II
BS EN81.73



FRONT VIEW DETAILS



BS EN81.20/50
BS EN81.28
BS EN81.58
BS EN81.70
BS EN81.71 CAT II
BS EN81.73

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MEDIUM / HIGH TRAFFIC
DELUX
DATA CONTENT TABLE ON DELIVERY (ON PROGRESS)

Speed (m/s)		1 m/s				2 m/s			
Q (kg)		300<Q<1000	1275<=Q<=1600	2000		300<Q<1000	1275<=Q<=1600	2000	
P+Q (kg)		P+Q<2300	P+Q<3275	P+Q<3925		P+Q<2300	P+Q<3925	P+Q<3925	
Max travel height TH (m)		40				> 40			
Min pit SP (mm)	EN81.20	1050	1100	1200		To be calculated (TBC)	TBC	TBC	
	EN81.21	500 (under slung)	850 (under slung)	950 (under slung)		TBC	TBC	TBC	
Min headroom HR (mm)	EN81.20	Hi+1250 (>3250)	Hi + 1600 (>3700) top slung arrangement			Hi+1800 (>3950)	Data to be confirmed: A) Hi + 2000 (>4250) under slung arrangement + ELSCO rollers guide shoes + T.Pulley Ø320. B) Hi+3000 (>5250) top slung arrangement + ELSCO roller guide shoes + T.Pulley Ø400	Data to be confirmed: A) Hi + 2200 (>4450) under slung arrangement, ELSCO rollers guide shoes + T.Pulley Ø320. B) Hi+3200 (>5450) top slung arrangement + ELSCO roller guide shoes + T.Pulley Ø400	
	EN81.21	Hi+800 (>2850)					TBC (Not standard)	TBC (Not standard)	
Shaft width SW (mm)	EN81.20	CW+500	CW+700			A) CW+700 (top slung arrangement) B) TBC (under slung arrangement)			
	EN81.21	CW+580	CW+800			TBC (Not standard)			
Shaft depth SD 1 landing (mm)		CD + KP + 70	CD + KP +70	CD + KP +70		CD + KP + 70	CD + KP + 70	CD + KP + 70	
Shaft depth SD 2 landings (mm)		CD + 2 x KP	CD + 2 x KP	CD + 2 x KP		CD + 2 x KP	CD + 2 x KP	CD + 2 x KP	
Car width CW (mm)		600 < CW < 1700	750 < CW < 2400	750 < CW < 2700		600 < CW < 1700	A) 750 < CW < 2400 Top Slung arrangement. B) TBC for under slung	A) 750 < CW < 2700 Top Slung arrangement. B) TBC for under slung	
Depth CD (mm)		1000 < CD < 2100	1200 < CD < 2100			1000 < CD < 2100	1200 < CD < 2100		
Interior height without suspended ceiling Hi (mm)		2050 < HI < 3000	2050 < HI < 3000	2050 < HI < 3000		2000 < HI < 3000	2050 < HI < 3000	2050 < HI < 3000	
Traction		Tracc Pulley Ø240 mm + T.ropes Ø 6,5	Tracc pulley Ø320 + T.ropes Ø8	Tracc pulley Ø320 + T.ropes Ø10		Tracc Pulley Ø240 mm + T.ropes Ø 6,5	Tracc pulley Ø320 + T.ropes Ø8	A) Tracc pulley Ø400 + T.ropes Ø10 B) Tracc puley Ø320 + T.Ropes Ø8	
	SW calculated depending on maximum CO for each load, doors T2H								
Load (kg)		320	450	630	800	1000	1275	1600	2000
Open area to calculate SW (mm)		700	800		900	1000	1100	1100	1100
	Examples of frequent CW and CD for each nominal load								
Load (kg)		320	450	630	800	1000	1275	1600	2000
CW x CD		900 x 1050	1000 x 1250	1100 x 1400	1350 x 1400	1400 x 1600 / 1100 x 2100	1400 x 2000 / 1200 x 2300	1400 x 2400	1500 x 2700
SW x SD		1410 x 1370	1520 x 1570	1620 x 1720	1900 x 1720	1900 x 1920 / 1620 x 2500	2100 x 2400 / 1900 x 2700	2100 x 2800	2200 x 3100

CW = Car width without decoration.

CD = Car depth without decoration.

KP = Landing door sill overhanged + gap between door sills + car door sill width + entry width.



CTV

COMPONENTES DE TRÁFICO VERTICAL

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