

A silhouette of a person climbing a large rock face at sunset. The sun is low on the horizon, creating a bright glow and lens flare. The background shows a dark, hilly landscape under a deep orange and yellow sky. The overall mood is adventurous and inspiring.

**vimec**

E10 EcoVimec  
TECHNICAL CATALOGUE

*The technical catalogue is mainly intended for our partners (sales agents, dealers, importers ...) all around the world. The aim is to provide a complete guide to all that Vimec E10 EcoVimec offers in terms of product specifications, options, versions.*

*Given the continuous product updates, this document will be periodically updated and made available through the usual channels.*

**VERSION 1.0 Released on 01/01/2021**

# OVERVIEW

E10 EcoVimec	
<b>Traction system</b>	MRL, belt drive
<b>Motor</b>	Electrically engaged, 1.5 kW/3kW (HL-LT-HS) - 230V 50Hz
<b>Rated Speed (max)</b>	0.15 m/s - 0.26 m/s (HS)
<b>Load capacity (max)</b>	400 kg - 500 kg (HL)
<b>Maximum travel</b>	14.6 m
<b>N° stops (max)</b>	5
<b>N° accesses (max)</b>	6
<b>N° doors/floor (max)</b>	2
<b>Headroom (min)</b>	2,450 mm - 2,600 mm (with cabin doors)
<b>Pit (min)</b>	120 mm (masonry shaft) - 140 mm (metal structure)
<b>Cab height (std)</b>	2,000 mm
<b>Door height (std)</b>	2,000 mm
Arrival at the floor and soft stop with the «soft start/stop» system	
Electrical safety locks	
Compliant with European Directive 2014/30 Electromagnetic Compatibility, European Directive 42/2006 «Machinery Directive»	

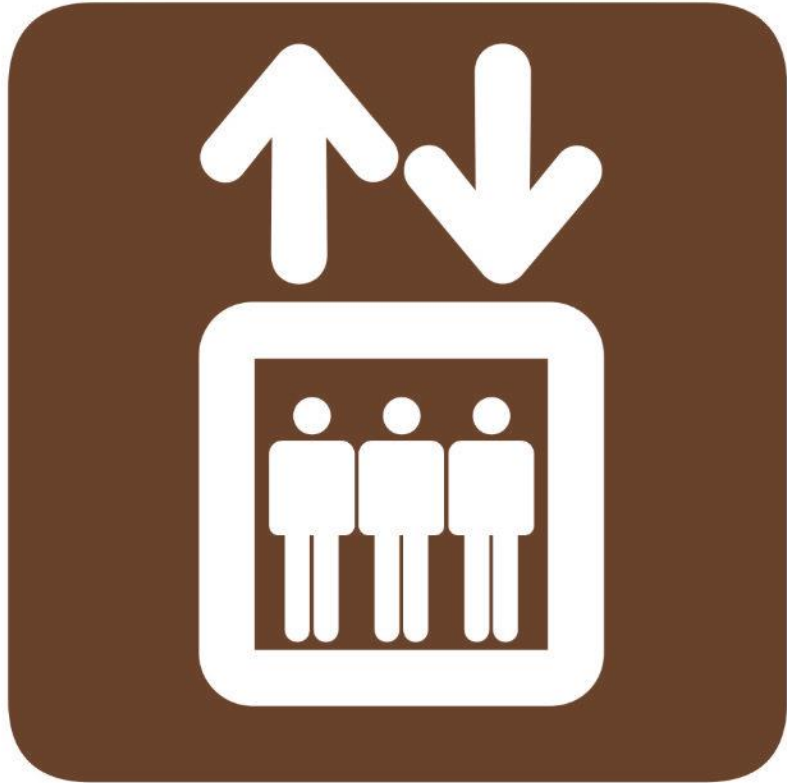


# LOAD CAPACITY

## Load capacity (kg) with different cabin types and versions

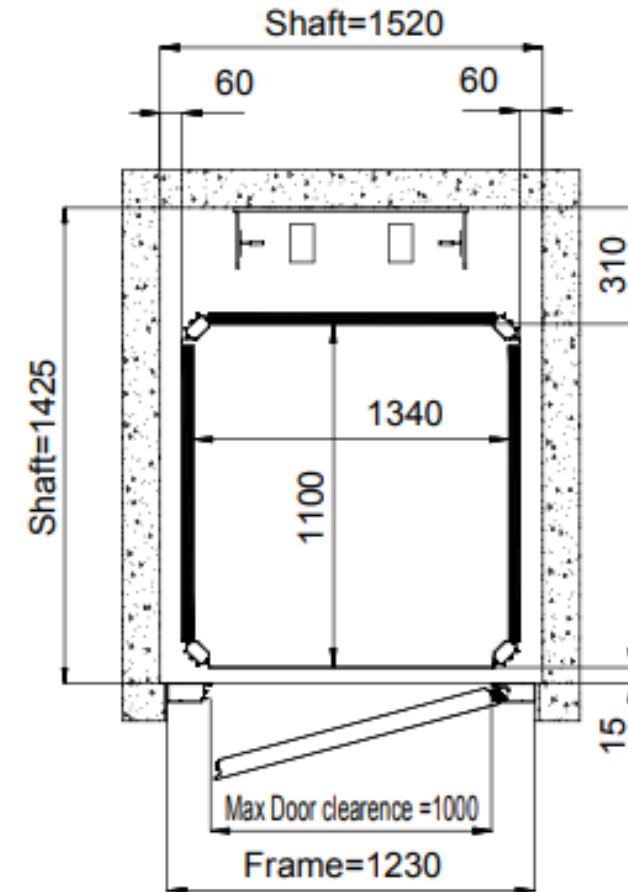
Cabin type	E10 Standard	E10 HL / LT
Standard cabin*	400	500
Standard cabin with glass wall or glass insert	400	500
Cabin with 1 telescopic door	300	400
Cabin with 1 telescopic door and 1 glass wall or with glass insert	300	400
Cabin with 1 telescopic door and 2 glass walls or with glass inserts	300	400
Cabin with 1 telescopic doors	300	400
Cabin with 2 telescopic doors and 1 glass wall or with glass insert	300	400
Cabin with 1 telescopic glass door	-	350

\* 3 walls, Color series, Steel or Stainless Steel, WITHOUT DOOR



# PLATFORM DIMENSIONS

NOMINAL WIDTH (L)	NOMINAL DEPTH (P)
900	900
900	1250
1000	1250
1000	1400
1100	1400
1250	900
1250	1000
1250	1250
1300	1030
1400	1000
1400	1100
1460	1170



# CE CERTIFICATE

No. IMQ CM 374 DM Rev. 4



CERTIFICATO DI ESAME CE DEL TIPO  
EU TYPE EXAMINATION CERTIFICATE

Visto l'esito delle verifiche condotte in conformità con:  
On the basis of our verifications carried out according to:

Allegato IX della Direttiva 2006/42/CE  
Annex IX of the Directive 2006/42/EC

Si dichiara che il prodotto:  
We declare that the product:

PIATTAFORMA ELEVATRICE  
LIFTING PLATFORM

Fabbricato da:  
Manufactured by:

VIMEC SRL  
VIA PARRI 7 - 42025 LUZZARA (RE)

Soddisfa le disposizioni della:  
Meets the requirements of the:

Direttiva 2006/42/CE  
Directive 2006/42/EC

Riferimento pratica IMQ  
IMQ Reference

MA20-0053978-01

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This certificate is issued by IMQ as Notified Body for the Directive 2014/33/EU - Identification number 0051.

Questo documento è composto da 4 pagine comprendenti 1 allegato | This document is composed of 4 pages including 1 annex

2020-12-01  
Emissione corrente  
Current issue

2011-12-23  
Prima emissione  
First issue

2022-02-09  
Data di scadenza  
Expiry date

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This Certificate cancels & replaces the previous one  
2020-06-09

  
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PRD N° 005 B

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# VERSIONS

As alternative to the standard version, E10 is available in 3 special versions to meet every need:

<b>HL - Heavy Load</b>	<b>HS - High Speed EXTRA-EU ONLY</b>
Max Load capacity 500 kg - 400 kg with cabin door	
3 kW Motor	
Reinforced structure	
Available only with the following platforms: <ul style="list-style-type: none"><li>➤ 1300 x 1030</li><li>➤ 1460 x 1170</li></ul>	
Telescopic glass doors as option	
	Max Rated Speed 0.26 m/s
OPTIONAL Counterweight with 2.2 kW motor*	STANDARD Counterweight

\* Particularly recommended for elevators with more than 4 stops intended to be used by more people and with more frequency (e.g. small residential building). It is also recommended for machines with 2/3 stops in case of heavy traffic.

# VERSIONS

The **Low Temperature (LT)** version is available for markets with particularly cold climate. The differences with the standard equipment of E10 are:


- **Increased 3 kW motor** (as for HL/HS versions) integrated with a dedicated heater.
- **Heated** landing door **locks** and closing / opening mechanisms (including any motorizations) - a special rubber thermal mat is applied.
- **Heated threshold** for telescopic doors - the heated thresholds include a set of temperature regulating cables with constant power that guarantee their operation down to a minimum temperature of -50°C.
- **Traction belts** made of thermoplastic polyurethane with a working temperature of -30°/+80°.
- Available only with 1460 x 1170 platform.
- Available only for outdoor installations with bolted platform metal structure.



# LEGEND

Browsing through the catalogue, you will encounter some icons and colors that highlight the key sales topic and the Unique Selling Points (USP) of E10:



**SALES MEMO** The few slides, before each chapter, have the aim of summarize the most important topics to be reminded during a negotiation and relevant for the customer. The slides feature links to other slides containing more details about each topic. To go back to the SALES MEMO slide, just click on  you will be redirected to the detailed slide.



## USP ASSEMBLY AND MAINTENANCE

Icon and color identify the «plus» related to assembly and maintenance



## USP ECOSUSTAINABILITY

Icon and color identify the «green» characteristics of E10, mainly about the materials



## USP SAFETY

Icon and color identify the «plus» related to the E10 safety devices and systems

In the following slides, you will find all the USP points in lists – every point can be clicked and is linked to a detailed slide. By clicking on the icon, you are redirected to the USP list.

# OVERVIEW – SALES MEMO

- [INTERIORS -Standard equipment vs options](#)
- [INTERIORS - E10 with one access in the cabin](#)
- [INTERIORS - E10 with two access in the cabin](#)
- [DOORS AND ACCESSES - N° accesses rules](#)
- [DOORS AND ACCESSES - Load capacity/ number of doors](#)
- [DOORS AND ACCESSES - Standard for swing doors](#)
- [DOORS AND ACCESSES - Standard for automatic doors](#)
- [TRACTION - Motor advantages](#)
- [FINISHES - Summary](#)

# OVERVIEW – USP ASSEMBLY AND MAINTENANCE



- **KIT GSM** recommended when the phone line socket is not available close to the elevator.
- Rules for **HANDLE** installation in the cabin according to platform dimension.
- Not necessary to make any holes for installation of **FLOORING KIT AT CUSTOMER'S CHOICE**.
- Optional **SHAFT LIGHTING**.
- **THRESHOLDS** rules.
- Pit floor must be able to bear a **LOAD** at least 5000 N/m<sup>2</sup>.
- **ONLY ONE BOX NECESSARY** for machines up to 4 floors/doors.
- Components in the box are in assembly order (**Last In First Out**).
- Wooden box can be closed at the end of the day and act as **WAREHOUSE** on site.
- Wires and components are supplied as **PRE-ASSEMBLED KITS**.

# OVERVIEW – USP ECO-SUSTAINABILITY



- **FLOORING** material 100% recyclable and recycled (PVC)
- **LOW ENERGY CONSUMPTION**
- **PLASTIC-FREE** packaging materials, recycled and recyclable.

# OVERVIEW – UPS SAFETY



- EMERGENCY LIGHT
- VOCAL SYNTHESIZER as option
- TELEPHONE ON BOARD as standard
- EMERGENCY STOP BUTTON in cabin
- DOORS and GLASSES can bear a mechanical force of 300 N
- FLOOR and CABIN door locking system
- Full-height INFRARED BARRIER
- ANTI-SHEARING protections
- Safety REDUNDANCIES
- Safety redundancies in the PIT and in the HEADROOM
- BACKUP INVERTER
- OVER SPEED GOVERNOR and SAFETY GEAR
- TELEMONITORING

# TABLE OF CONTENTS

## 1. [CABIN INTERIORS](#)

### [1.1 Cabin finishes](#)

### [1.2 Walls](#)

#### [1.2.1 Cabin push-button](#)

#### [1.2.2 Cabin display](#)

#### [1.2.3 Telephone](#)

#### [1.2.4 Auto-dialer](#)

##### [1.2.4.1 Kit GSM](#)

##### [1.2.4.2 Inductive loop](#)

#### [1.2.5 Emergency stop button](#)

#### [1.2.6 I-Button](#)

#### [1.2.7 Key and load sensor](#)

#### [1.2.8 Walls with options](#)

#### [1.2.9 Handle](#)

#### [1.2.10 Back cover](#)

### [1.3 Floorings](#)

#### [1.3.1 Standard](#)

#### [1.3.2 PVC](#)

#### [1.3.3 Customer kit](#)

### [1.4 Ceiling and lighting](#)

## 2. [DOORS AND ACCESSES](#)

### [2.1 Dimensions](#)

### [2.2 Swing doors](#)

#### [2.2.1 Dimensions and types](#)

#### [2.2.2 Handle](#)

#### [2.2.3 Double-hinged](#)

#### [2.2.4 Door block](#)

#### [2.2.5 Locks](#)

#### [2.2.6 Door closer](#)

#### [2.2.7 Motorisations](#)

### [2.3 Telescopic](#)

#### [2.3.1 Types](#)

#### [2.3.2 Door block](#)

#### [2.3.3 Threshold](#)

### [2.4 Infrared barrier](#)

### [2.5 Coating and colours](#)

### [2.6 Floor push-button](#)

#### [2.6.1 Collective call](#)

## 3. [METAL STRUCTURE](#)

### [3.1 Cladding](#)

#### [3.1.2 Glass](#)

### [3.2. Outdoor roof](#)

### [3.3 Other coverings](#)

### [3.4 Brackets and supports](#)

### [3.5 Protections](#)

### [3.6 Surface treatments](#)

### [3.7 Foundation and base load](#)

### [3.8 Anti-seismic relations](#)

## 4. [TRACTION](#)

### [4.1 Guides](#)

### [4.2 Motor](#)

### [4.3 Noise level](#)

## 5. [SAFETY](#)

### [5.1 Pit and headroom](#)

### [5.2 Backup inverter](#)

### [5.3 O.S.G. and safety gear](#)


















### [5.4 Telemonitoring](#)

## 6. [PACKAGING](#)

## 7. [APPENDIX](#)

# CABIN INTERIORS

# CABIN INTERIORS- SALES MEMO

Standard equipment	Options
Color series walls available in the following finishes: grey, beige, blue, maple and cherry 	<b>Alternative finishes for walls</b> 
<i>Safestep</i> floor, grey colour with stamps 	<b>4 alternative finishes for platform</b> 
Full-height cabin push-button panel 	
Floor push-button with 50x50 buttons and braille 	
<b>On-board telephone</b> 	<b>Auto-dialer</b> 
<b>I-button</b> ready 	I-button activation with keys 
Ceiling with LED bar lighting 	«Starry night» ceiling 
Emergency stop button 	
	Cabin and floor <b>display</b> 
	Wall with <b>horizontal</b> or <b>vertical mirror</b> 
	Glass wall or half-wall 
	<b>Aluminum handle</b> 

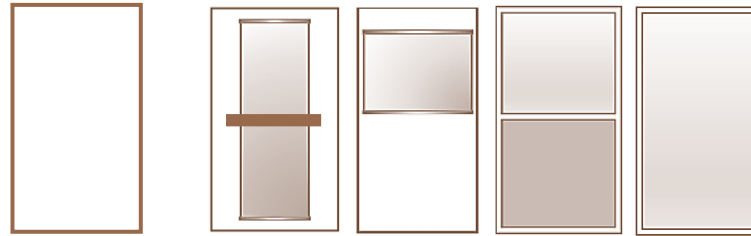
# WALLS – SALES MEMO

## E10 with ONE ACCESS IN THE CABIN – Possible walls combinations

*Same combination are possible also with telescopic door.*

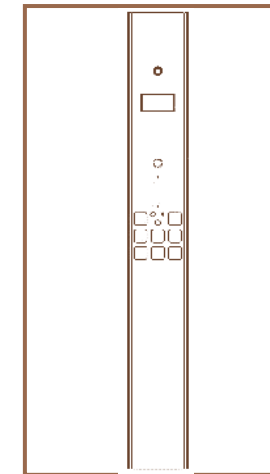
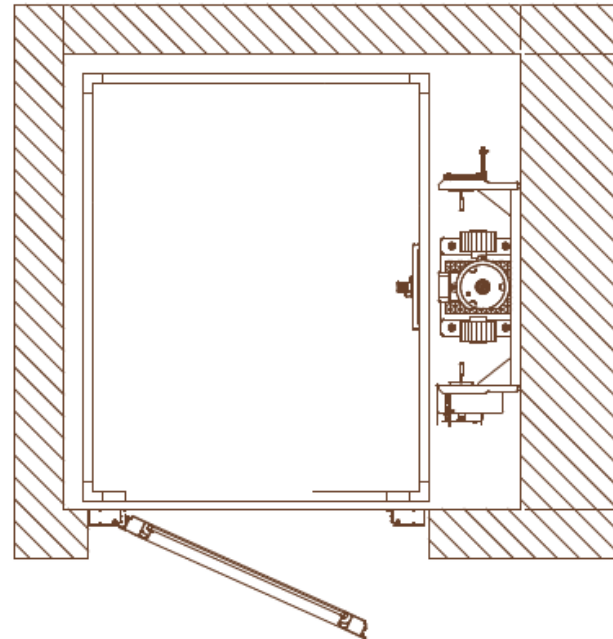
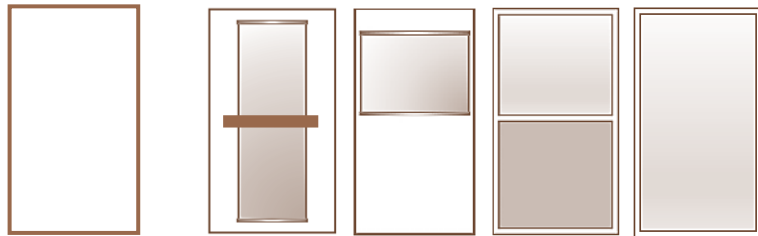
STANDARD  
wall or

Wall with glass/mirror  
Handle (opt)



STANDARD  
wall or

Wall with glass/mirror  
Handle (opt)



COP wall



# WALLS – SALES MEMO

## E10 with 2 ACCESSSES IN THE CABIN – Possible walls combinations

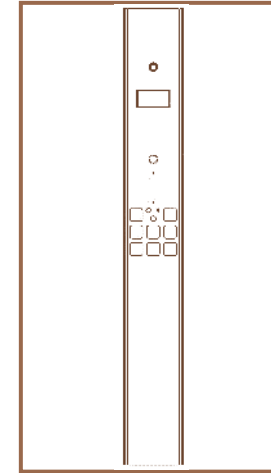
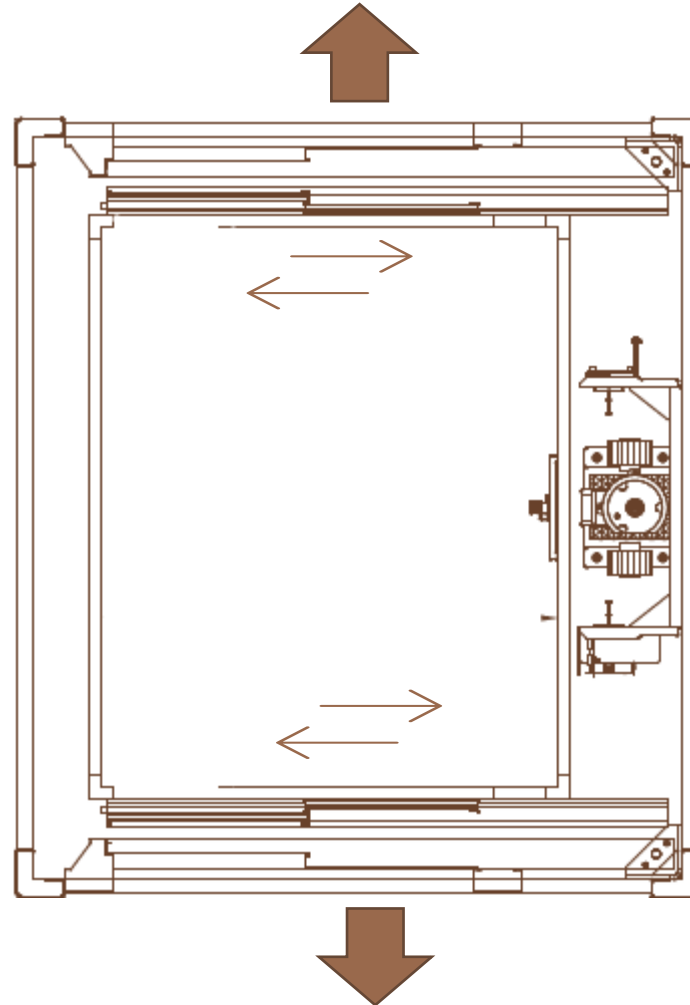
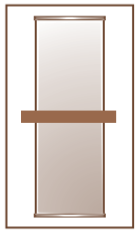
*Same combination are possible also with panel doors.*

*Valid also for 2 adjacent accesses.*

STANDARD  
wall or

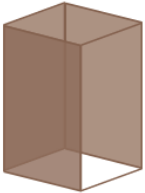





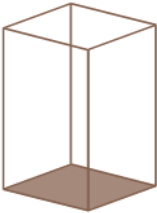

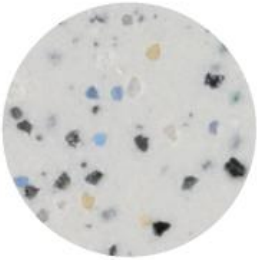
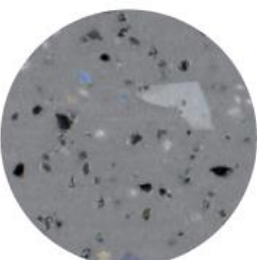
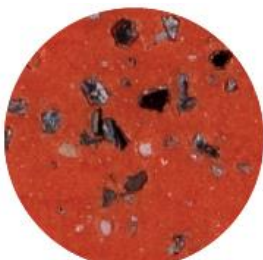



Wall with glass/mirror  
Handle (opt)



COP wall

# CABIN FINISHES - OVERVIEW

<p>Walls</p> 	 <p>GREY</p>	 <p>BEIGE</p>	 <p>BLUE</p>	 <p>CHERRY</p>	 <p>MAPLE</p>
<p>Platform</p> 	 <p>GREY WITH STAMPS</p>	 <p>LIGHT GREY</p>	 <p>DARK GREY</p>	 <p>RED</p>	 <p>WILD PEAR</p>



TRANSPARENT GLASS



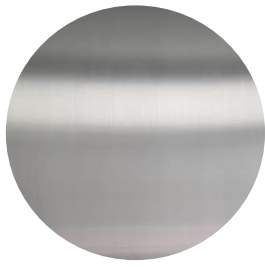
WHITE



SMOKE GREY GLASS



POLISHED LINEN STAINLESS  
STEEL



BRUSHED STAINLESS STEEL

Alternative walls

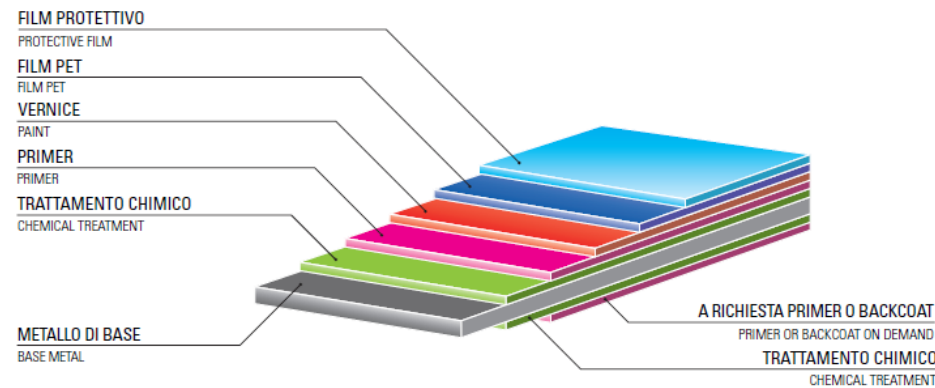
# WALLS – OVERVIEW



All walls and ceiling are made of **coated steel Colour type** available in standard grey (as shown in the photo), beige, blue, cherry, maple and matt white.  
In detail, the walls are made of steel sheets pre-coated with a layer of paint and overlaid with a coloured PET film available in the finishes listed above.

## DIMENSIONS

Thickness mm da 0.30 a 2  
PET coating thickness 30-55 µ (organic coating)



As option, the following finishes are available:



### POLISHED STAINLESS STEEL LINEN

So called because it resembles the weave of linen yarns, it is an anti-scratch, anti-vandal, high durability and low reflectivity finish.



### BRUSHED STAINLESS STEEL



### TRANSPARENT OR SMOKE GREY GLASS

Not available for COP wall (it will be made in a finish at customer's choice)

It is also possible to choose walls with different finishes combined inside the same cabin (i.e., stainless steel COP wall with *Colour* type walls).



# WALLS – TECHNICAL FEATURES (COLOUR TYPE WALLS)

CABIN  
INTERIORS

## MAIN CHARACTERISTICS

	Test norm	Test results
Maximum temperature range for end use	-20 °C + 80 °C	No remarkable variations
Adhesion after drawing 6 mm	UNI EN <a href="#">13523-6</a>	Good
Adhesion after cupping	UNI EN <a href="#">13523-7</a>	>/= 1 T
Pencil hardness	UNI EN <a href="#">13523-4</a>	H-2H
Resistance to cracking on bending (T-bend test)	UNI EN <a href="#">13523-7</a>	2 T free of cracks
Surface scratch resistance	UNI EN <a href="#">13523-16</a>	Weight loss 25-28 mmg
Resistance to rapid deformation (impact test)	UNI EN <a href="#">13523-5</a>	16 J no visible cracks using a magnifying lens 10x
Resistance to water	UNI EN <a href="#">13523-9</a>	No loss of adhesion or blisters
Corrosion resistance	UNI EN <a href="#">13523-8</a>	360 h creepage max 2 mm no blisters
Resistance at 100% relative humidity	UNI EN <a href="#">13523-26</a>	750 h no blisters
Resistance to solvents	24 h contact	No stain build-up
Reaction to fire classification for building products	<a href="#">EN 13501</a>	Classification A1

# WALLS - TYPES

**BLUE**



**BEIGE**



**CHERRY**



**MAPLE**



**BRUSHED STAINLESS  
STEEL**



# ON-BOARD PUSH-BUTTON



The full-height on-board push-button panel is available in **grey Similinox** as standard with dimensions 2000 x 230mm.

The push-button is positioned at the centre of the wall and sticks out only 20 mm from the wall.

In case of stainless-steel walls, the COP is made of the same material (polished lined or brushed).

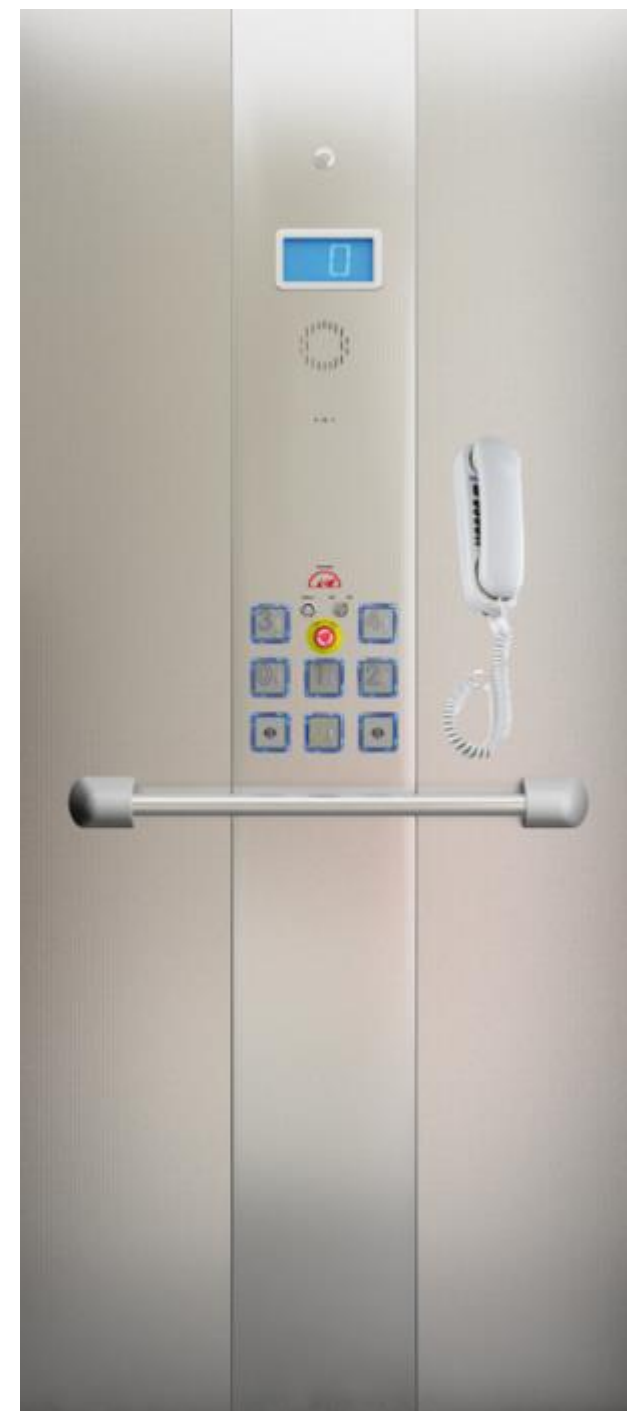
On- board push-button includes as standard:

- Squared buttons for floor selection, door opening and emergency
- Emergency stop button
- I-Button
- Machine activation key
- Load sensor

Standard equipment includes a telephone positioned on the right or left-hand side of the COP.

The LCD display, handle and auto-dialer are available as option.

**In the next slides, we will go into detail of every single component of the push-button panel.**





# ON-BOARD PUSH-BUTTON



The mechanical buttons are **square-shaped 56x56** (active part 50x50) backlit in blue and yellow for the emergency button.

The buttons are made of transparent polycarbonate and are vandal-proof.

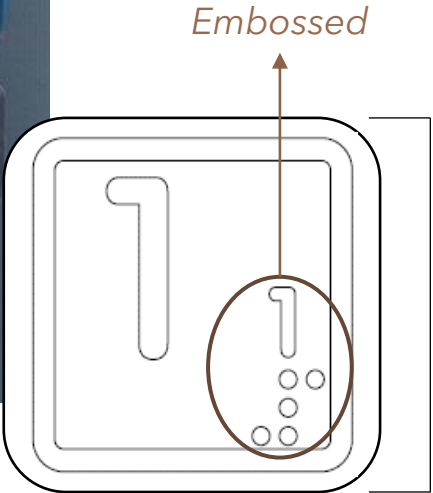
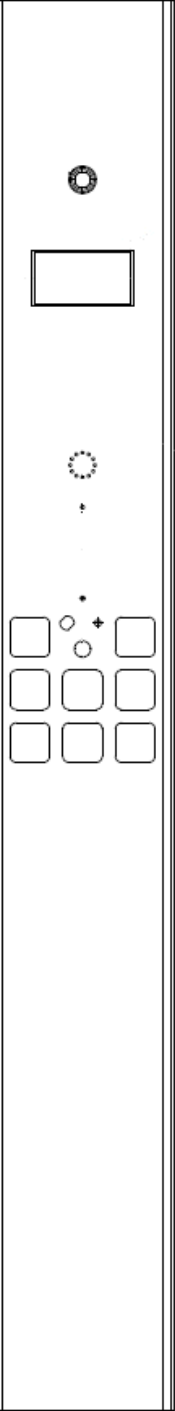
The numbers and pictograms are made by applying a special label including braille.

The buttons are positioned at 19 mm from each other.

The car control panel is fully compliant with [EN 81-41:2011](#), in particular:

Element	Requirements	E10 Eco Vimec
Minimum dimension of the active part of the buttons	Inscribed circle with a diameter of 20 mm	✓
Identification of active part of buttons	Identifiable visually and by touch from face plate or surrounds	✓
Identification of faceplate	Colour to contrast with its surrounds	Backlit polycarbonate frame
Operating force	2.5 - 5.0 N	✓
Mechanical operating feedback	Required to inform user that the pushed button has been operated	Backlight + audio signal
Position of symbol	Preferable on active part (or 10-15 mm left of it)	✓
Size of symbol (relief)	15 - 40 mm	15 mm symbol only, 30 mm with braille
Distance between active parts of call buttons	10 mm	19 mm
Minimum height between the floor level and the centre line of any button	900 mm	950 mm from lower button
Maximum height between the platform floor level and the centre line of the highest button on platform	1,200 mm (preferably 1,100 mm)	1100 mm

922 mm

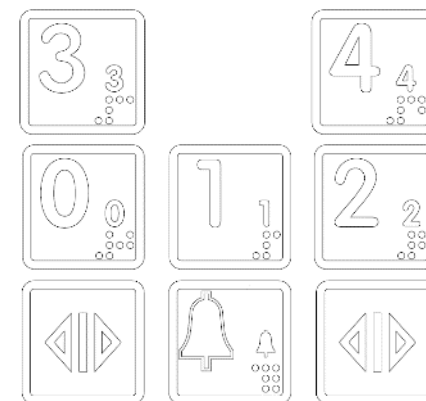
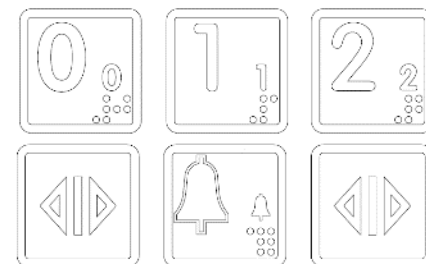
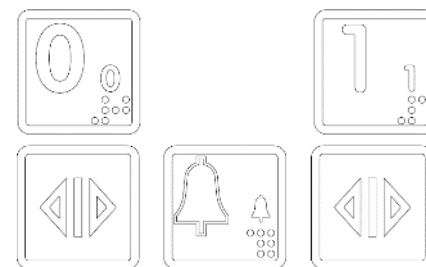


# ON-BOARD PUSH-BUTTON

PUSH-BUTTON  
WALL

According to the number of stops, the push-button panel is configured as follows:

- In case of 2 stops (total 5 buttons, all backlit)
- In case of 3 stops (total 6 buttons, all backlit)
- In case of 4 or 5 stops (total 8 buttons) - in case of 4 stops, the top right button is **NOT** backlit)



**The “bell” and opening-door buttons are always backlit.**

*Configurations available starting from February 2021*

**vimec**



# CABIN DISPLAY



PUSH-BUTTON  
WALL

As option, it is possible to install an **LCD display** with floor and arrow indicator.

EN 81-70

## MAIN CHARACTERISTICS

- Screen: transparent polycarbonate shock-proof and scratch-proof.
- Colours: white light on blue background
- Chromed frame
- Power supply: 12/24Vdc +/- 10%.
- Available characters: programmable characters set in Latin, Cyrillic and Greek alphabetic.



By selecting the **voice synthesis** option, it is possible to add a floor arrival sound (commonly called "gong") and/or a floor arrival voice announcement that can be configured at the time of installation - in this case an audio file is played in the selected language (available languages: Italian, English, French, German). It is also possible to set the volume by choosing 3 modes: minimum, medium, maximum.



*You can find it in the pricelist as: Floor announcement device*

**vimec**

# TELEPHONE



PUSH-BUTTON  
WALL



A telephone with handset and keypad is included as standard. It can be used like any other telephone and is also usable in the event of a black-out as it is powered by the telephone line. The telephone connection in the cabin is standard type, so it is also possible to install any telephone handset of the customer's choice. The telephone can be installed EXCLUSIVELY on the push-button panel.



As an alternative or in addition to the telephone, it is possible to install an [auto-dialer](#) (available as option).

The presence of the telephone in the cabin is standardised by [EN 81-41:2011](#), par. 5.5.16.1 «passengers shall have available in the platform an easily recognisable and accessible device for this purpose. This device shall allow a two-way voice communication by a permanent contact with a rescue service».



# TELEPHONE - CERTIFICATES

PUSH-BUTTON  
WALL

Dichiarazione di conformità UE EU Declaration of Conformity (DoC)	
Noi / We:	
Nome del fabbricante / Company name:	
Indirizzo postale / Postal address:	
CAP e Città / Postcode and City:	
Telefono / Telephone:	
Indirizzo Posta elettronica / E-Mail address:	
Dichiariamo che la presente DoC è rilasciata sotto la nostra sola responsabilità, e appartiene al seguente prodotto Declare that the DoC is issued under our sole responsibility and belongs to the following product:	
Apparecchio modello / Apparatus model:	
Tipo prodotto / Product Type:	Telefono
Lotto n. / Batch no.:	
Numero serie / Serial number:	
Oggetto della dichiarazione / Object of the declaration :	
	
L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione / The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:	
Direttive 2014/30/UE e 2014/35/UE / Directives 2014/30/EU and 2014/35/EU	
Riferimento alle pertinenti norme armonizzate utilizzate / The following harmonised standards and technical specifications have been applied:	
Titolo / Title :	Data di pubblicazione / Date of standard/specification
EN 61000-6-1	2007
EN 55022	2014
EN 41003	2010
EN 60950	
Organismo notificato (se applicabile) / Notified body (where applicable):	
Informazioni supplementari / Additional information:	
Firmato a nome e per conto di / Signed for and on behalf of:	
26/06/2018	Il Legale Rappresentante 
(Luogo e data del rilascio / Place and date of issue)	(Nome, funzione, firma / Name, function, signature)

vimec

# AUTO-DIALER



PUSH-BUTTON  
WALL

By pressing the bell button, an acoustic alarm is activated and remains active until the button release. If an **auto-dialer** is present, available as an option, when the acoustic alarm is activated and the button is pressed for about 8 seconds, it makes a series of calls to the numbers previously set by our technician at the time of installation, in the pre-set order of priority. The dialer is able to make one call at a time and works even in the event of a black-out (no main voltage) for a maximum time of 2 hours. The operation mechanism of the dialer is quite simple: the call can be forwarded either via the house telephone line, or via the GSM line through a dedicated SIM card (see dedicated [slide](#) "KIT GSM").



# AUTO-DIALER

ON-BOARD  
PUSH-BUTTON

The auto-dialer is installed in the elevator shaft and is always provided as **standard** equipment.

## MAIN CHARACTERISTICS

- Management of 24 programmable phone numbers to be freely associated with different alarm sources and called parties
- Technological alarms: low battery / replace battery / no external power supply / built-in speaker unit diagnostic / auxiliary alarm
- Compliant with: [EN 81-80](#), [EN 81-28](#), [EN 81-70](#)
- Low battery signaling via device status LED
- Programmable handsfree connection mode
- Telephone line presence check
- Pre-recorded languages: 8 (Italian / English / German / French / Polish / Portuguese / Russian / Spanish)
- Pre-recorded voice messages: 30 minutes, restorable
- Courtesy message for the car: multi-language, customizable (max. 25 s)



EN 81-70



# AUTO-DIALER – GSM KIT

ON-BOARD  
PUSH-BUTTON

The GSM kit includes a device which, connected directly to the auto-dialer's telephone line connection, allows calls to be made and received via the GSM network.

It requires a GSM SIM card not provided by Vimec.



It is recommended when the phone line socket is not available close to the elevator.

## MAIN CHARACTERISTICS

- GSM/GPRS module: QUAD-BAND
- Transmission power: 1 W at 1800/1900 MHz, 2 W at 850/900 MHz
- GSM signal indicator LED: green
- GSM signal indicator flash: 1, 2, 3 or 4 for low, medium, good, high signal level
- Status indicator LED: red
- Line status indicator LED (FXS output: clear, engaged, ring): white
- Power supply status indicator LED: blue
- SIM card slot: 2FF, built-in
- Telephone line connection: terminal block or connector RJ-11
- Antenna connector: SMA/f
- Antenna: magnetic base antenna with cable (2 m) and SMA/m connector
- External adapter: 230 Vac 50 Hz / 12 Vdc 500 mA, optional



*You can find it in the price list as: Kit GSM for communication device on board (telephone or auto-dialer) with wireless compliance*

**vimec**

# AUTO-DIALER – INDUCTION LOOP

ON-BOARD  
PUSH-BUTTON

The **induction loop** is a hearing aid specifically conceived to enable two-way communication for hearing-impaired elevator passengers. Thanks to the induction loop, in the event of an emergency call, a hearing-aid wearer is able to listen clearly to the voice prompts broadcasted by the emergency phone and can communicate perfectly with the service centre operator without any background noise or interferences.

The induction loop is linked to the auto-dialer and it is available as **option**. Equipped with backlit pictogram and microphone, it provides an excellent audio quality.

## MAIN CHARACTERISTICS

- Amplifier unit dimensions (terminal blocks not included): 117 x 63 x 24 mm
- Weight: 87 g
- Loop wire circumference: 3000 mm
- Loop wire connection cable: 3440 mm
- Power supply: 12 Vdc
- Built-in microphone





## Dichiarazione di conformità UE EU Declaration of Conformity (DoC)

Noi / We:

Nome del fabbricante / Company name:

Indirizzo postale / Postal address:

CAP e Città / Postcode and City:

Telefono / Telephone:

Indirizzo Posta elettronica / E-Mail address:

Dichiaro che la presente DoC è rilasciata sotto la nostra sola responsabilità, e appartiene al seguente prodotto:  
Declare that the DoC is issued under our sole responsibility and belongs to the following product:

Apparecchio modello / Apparatus model:

Tipo prodotto / Product Type:

Lotto n. / Batch no.:

Numero serie / Serial number:

EMERGENCY PHONE

Oggetto della dichiarazione / Object of the declaration :



L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione /  
The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Direttiva 2014/33/UE / Directive 2014/33/EU - Direttiva 2014/53/UE / Directive 2014/53/EU

Riferimento alle pertinenti norme armonizzate utilizzate /

The following harmonised standards and technical specifications have been applied:

Titolo / Title :

EN 81-28  
EN 12015  
EN 12016

Data di pubblicazione / Date of standard/specification

2018 + AC:2019  
2014  
2013

Informazioni supplementari / Additional information:

Firmato a nome e per conto di / Signed for and on behalf of:

Recanati, 24/02/2020

(Luogo e data del rilascio / Place and date of issue)

Il Legale Rappresentante  
Massimo Baldoni

(Nome, funzione, firma / Name, function, signature)

## Dichiarazione di conformità UE EU Declaration of Conformity (DoC)

Noi / We:

Nome del fabbricante / Company name:

Indirizzo postale / Postal address:

CAP e Città / Postcode and City:

Telefono / Telephone:

Indirizzo Posta elettronica / E-Mail address:

Dichiaro che la presente DoC è rilasciata sotto la nostra sola responsabilità, e appartiene al seguente prodotto:  
Declare that the DoC is issued under our sole responsibility and belongs to the following product:

Apparecchio modello / Apparatus model:

Tipo prodotto / Product Type:

Lotto n. / Batch no.:

Numero serie / Serial number:

GSM500

Gateway GSM

Oggetto della dichiarazione / Object of the declaration :



L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa di armonizzazione dell'Unione /  
The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Direttiva 2014/53/UE / Directive 2014/53/EU

Riferimento alle pertinenti norme armonizzate utilizzate /

The following harmonised standards and technical specifications have been applied:

Titolo / Title :

EN 301 511  
EN 301 489-1  
EN 301 489-52  
EN 12015  
EN 12016  
EN 60950-1

Data di pubblicazione / Date of standard/specification

V9.0.2 (2003) par.4.2.16; 4.2.17  
v.2.1.1  
v.1.1.0  
2014  
2013  
2006; A11:2009; A12:2011; A2:2013

Organismo notificato (se applicabile) / Notified body (where applicable):

Informazioni supplementari / Additional information:

Firmato a nome e per conto di / Signed for and on behalf of:

Recanati, 22/09/2017

(Luogo e data del rilascio / Place and date of issue)

Il Legale Rappresentante  
Massimo Baldoni

(Nome, funzione, firma / Name, function, signature)



# EMERGENCY STOP BUTTON

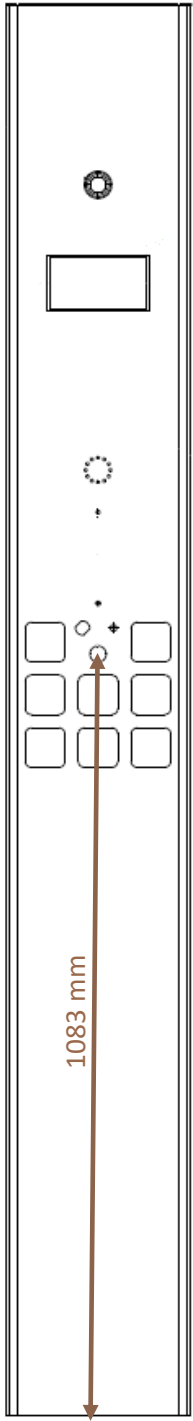
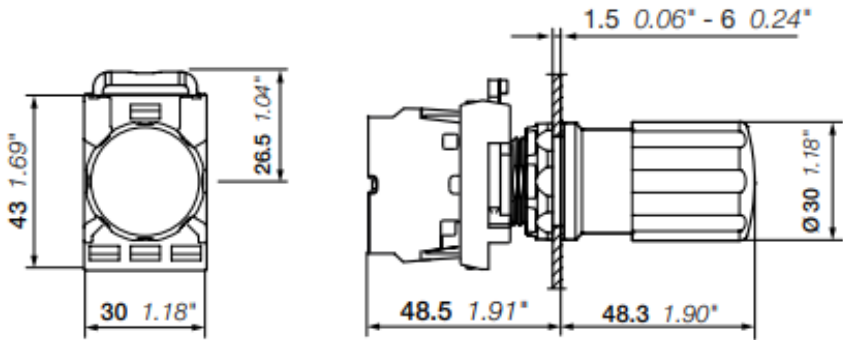


The red **emergency stop button** is always installed at 1083 mm from the ground in compliance with EN 81-41:2011, par. 5.5.15.5: «An emergency stopping device in accordance with EN ISO 13850 shall be fitted on the platform that, when operated, shall directly interrupt the electric safety chain. This device shall be clearly visible and accessible to the user, easy to operate».



MAIN CHARACTERISTICS	
Colour	Red
Width	30 mm
Height	30 mm
Protrusion from COP	48.3 mm
Net weight	0.036 kg
Operating temperature	-25°/+70°C
Protection class	<a href="#">IP66</a>
Function	Rotation locking/unlocking

Guaranteed up to 1,000,000 cycles



# EMERGENCY STOP BUTTON

PUSH-BUTTON  
WALL

## EU Declaration of Conformity

EU Konformitätserklärung  
Déclaration UE de conformité  
Dichiarazione di conformità UE

This declaration of conformity is issued under the sole responsibility of the manufacturer

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller /  
La présente déclaration de conformité est établie sous la seule responsabilité du fabricant /  
La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante

### Object of declaration

Gegenstand der Erklärung / Objet de la déclaration / Oggetto della dichiarazione

**Emergency stop** / Not-Aus / Arrêt d'urgence / Pulsanti di arresto di emergenza

**Type** / Typ / Type / Tipo

MEPY, MPE, MPM, MEM

The object of this declaration is in conformity with the relevant Community harmonisation legislation

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen / Harmonisierungsrechtsvorschriften der Gemeinschaft /  
L'objet de la déclaration décrit ci-dessus est conforme à la législation communautaire d'harmonisation applicable /  
L'oggetto della dichiarazione di cui sopra è conforme alla pertinente normativa comunitaria di armonizzazione

**Low Voltage Directive / Niederspannungsrichtlinie / Directive basse tension / Direttiva Bassa Tensione**  
No. 2014/35/EU

**EMC Directive / EMV-Richtlinie / Directive CEM / Direttiva EMC**  
No. 2014/30/EU

**Machinery directive / Maschinenrichtlinie / Directive sur les machines / Direttiva machine**  
No. 2006/42/EC

**RoHS Directive / RoHS Richtlinie / Directive RoHS / Direttiva RoHS**  
No. 2011/65/EU incl. 2015/863/EU

and are in conformity with the following harmonized standards or other normative documents

nachgewiesen durch die Einhaltung der nachstehend aufgeführten Normen oder anderen normativen Dokumenten /  
et justifié par le respect des Normes mentionnées ci-dessous ou autres documents normatifs /  
e sono stati applicati le norme o altri documenti normativi indicati di seguito

EN60947-1:2007/A1:2011/A2:2014

EN60947-5-1:2004/A1:2009

EN60947-5-5:1997/A1:2005/A11:2013

EN ISO13850:2008

EN 50581:2012

**Year of CE-marking: 2002**

Jahr der CE-Kennzeichnung / Année d'apposition du marquage CE / Anno in cui è stata affissa la marcatura

**Signed for and on behalf of**

Unterzeichnet für und im Namen von / Signé par et au nom de / Firmato in vece e per conto di

August 2019

## Certificate of Compliance

Certificate Number 20101222-E76003  
Report Reference E76003, 2010 December 18  
Issue Date 2010 December 22

Page 1 of 1



Issued to:

This is to certify that  
representative samples of

### AUXILIARY DEVICES

Series M Mushroom Stop. Cat. No. MPE followed by T, P or K, followed by 3 or 4, followed by -1 or -2, may be followed by 0, 1, 2 or 3, followed by letter to indicate color, followed by a one or two digit number.

Have been investigated by Underwriters Laboratories Inc.® (UL) or any authorized licensee of UL in accordance with the Standard(s) indicated on this Certificate.

**Standard(s) for Safety:** UL 508 - STANDARD FOR INDUSTRIAL CONTROL EQUIPMENT - Edition 17,  
CSA C22.2 NO. 14 - INDUSTRIAL CONTROL EQUIPMENT - Edition 11

**Additional Information:** See UL On-Line Certification Directory at [www.UL.com](http://www.UL.com) for additional information.

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:

the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product

William R. Carney  
Director, North American Certification Programs  
Underwriters Laboratories Inc.

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://www.ul.com/global/eng/pages/corporate/contactus/>

vimec

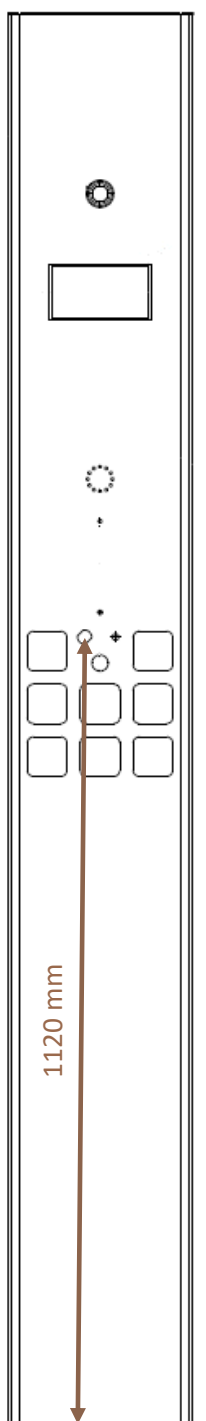
# I-BUTTON



The I-BUTTON is an electronic key contact to enable the use of the elevator to authorised persons only, in residential buildings or professional environments where special access control is required. All push-button panels, both in the cabin and on the floors, are **I-button ready as standard**. The call with the i-button key is valid from the moment you enter the elevator until you exit to the desired floor.

The key contact is always installed and visible even if not activated.  
As option, electronic vandal-proof for accesses control are available.

*To enable the call, simply place the key next to the floor push-button panel contact; if the elevator is used simultaneously by 2 or more people in possession of I-button, but directed to different floors, at the end of the first run, the restart to go to the next floor can only be made by re-enabling the device by the second passenger, on the reader located on the cabin push-button panel.*



*You can find it in the price list as: I-button keys and their activation (compulsory in case of multiple accesses at the same floor)*

# KEY AND LOAD SENSOR

PUSH-BUTTON  
WALL

On board, a machine-activation key and a load sensor are always provided as standard.

## LOAD SENSOR

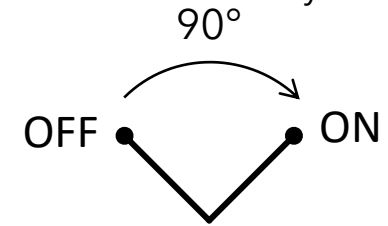
It is equipped with a red indicator light, which lights up to indicate that the maximum permitted weight in the cab has been reached. In this case, a load sensor inhibits driving until the overload on the platform ceases and the control in the cab is pressed again.



## MACHINE-ACTIVATION KEY

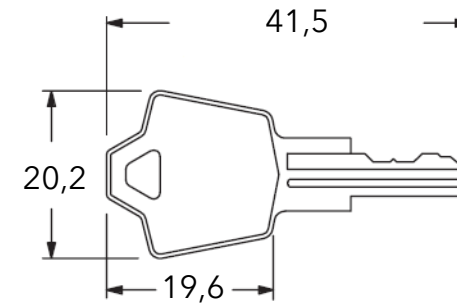
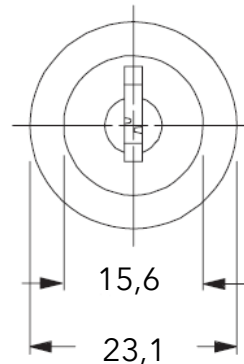
There is always a key switch that enables or disables the push-button panel depending on the position in which the key is rotated:

- «OFF» disabled
- «ON» enabled



Materials:

- Switch block: Zinc alloy with stainless steel coating
- Keys: 2 brass with nickel coating



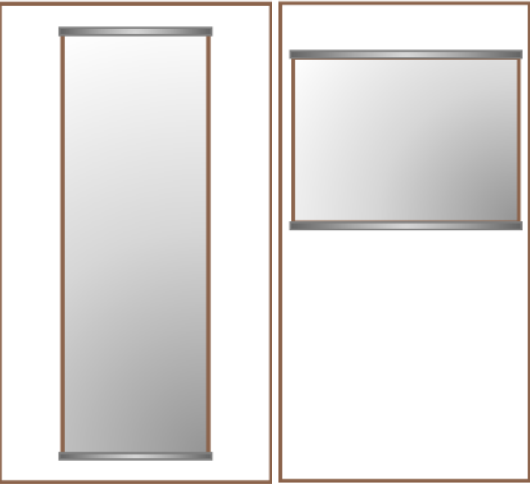
1155 mm

1120 mm

# WALLS - OPTIONS



The following options are available for the walls, except the COP one:



**Mirror**

Available in the following versions:

- Vertical
- Horizontal

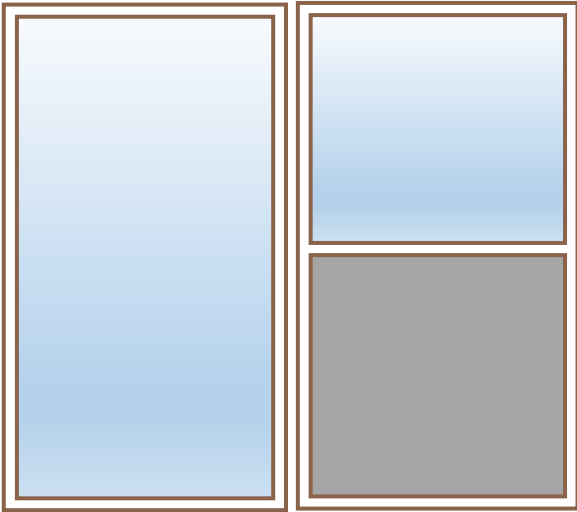
Not available with 2 cabin accesses

**Transparent or smoke grey glass insert**

Available for:

- Half wall
- Full wall (max 2 walls)

Not available with 2 cabin accesses





It is possible to install one of the following handle types, available also in 2 different formats according to the platform dimensions:

**Brushed aluminum rounded handle**  
Length 600 mm or 895 mm  
In aluminum

The handle installation is made according to the following rules :



	900x900		900x1250		1000x1250		1000x1400		1100x1400		1250x900		1250x1000		1250x1250		1300x1030		1400x1000		1400x1100		1460x1170	
	L	P	L	P	L	P	L	P	L	P	L	P	L	P	L	P	L	P	L	P	L	P	L	P
550 mm handle	✓	✓	✓		✓		✓					✓		✓			✓		✓					
800 mm handle				✓		✓		✓	✓	✓			✓		✓	✓	✓		✓		✓	✓	✓	✓

The handle **can** be fit on the COP wall.  
The handle **cannot** be it on the glass walls.

# BACK COVER

WALLS

Upon request, it is possible to cover the side walls also externally (other than the rail side). This solution, available only with steel structure, guarantees a better aesthetics in case of transparent glass cladding, especially if the installation is inside.

The colour of the rear cladded walls is usually the same as that of the interior of the cabin - however, it is also possible to create them in alternative colours.



*You can find it in the price list as: Cabin back cover on 2 sides (identical as internal of cabin)*

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# CABIN INTERIORS

FLOORINGS



# FLOORINGS- PVC AND RUBBER

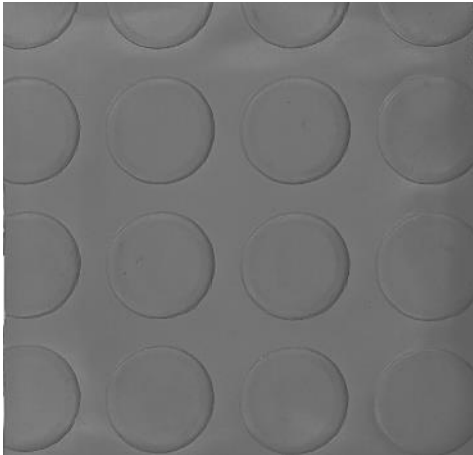
The standard grey floor with stamps is made of PVC and thermoplastic rubber.

- 1. The wear layer is made of a special wear-resistant compound of PVC and thermoplastic rubber and corresponds on average to half of the total thickness of the product.
- 2. The bottom layer is made of PVC, plasticisers and mineral fillers.

## MAIN CHARACTERISTICS

MAIN CHARACTERISTICS		Conforme a
Thickness	1.25 mm	<a href="#">EN ISO 24341</a>
Thickness wear layer	0.62 mm	<a href="#">EN ISO 24340</a>
Thick stamp embossing	ø 20 mm	
Reaction to fire	Bfl- s1 (min smoke)*	<a href="#">EN 13501-1</a>
Castor chair passage resistance	Suitable	EN 4918
Slip resistance	DS ( $\mu \geq 0,30$ )	<a href="#">EN 13893</a>
Resistance to mineral oils	Good	
Resistance to solvents	Resistant to most acids and diluted alkalis.	

GREY WITH STAMPS



## DECLARATION of PERFORMANCE DICHIARAZIONE DI PRESTAZIONE

DoP n. 112



Issued in accordance with CPR 305/2011

1. *Nome commerciale prodotto:* **COPRIPAVIMENTI**  
*Manufacturer's Product:*
  2. *Lotto Numero/Batch number:* **VEDI D.D.T.**  
*Article Number / Codice Articolo:* **ARTT. 375 - 395 - 370 - 390 - 368 - 391 - 378 - 379 - 394 - 396**
  3. *Uso previsto/Posa in opera in accordo allo Standard di Prodotto:* **Appoggiato oppure incollato a supporto incombustibile**  
*Intended use/Laying in accordance to Product Standard:* (Ex. Rested or glued on incombustible substrate)
  4. *Manufacturer's Name and address:*  
*Nome ed indirizzo del produttore:*
  5. *Authorized Representative - Name and address (if applicable):*  
*Nome ed indirizzo del Legale Rappresentante (se applicabile):*
  6. *Sistema di Valutazione e Verifica della Costanza di Prestazione del Prodotto:* **SISTEMA 1**  
*Assessment and Verification of constancy of performance: System 1*
  7. *Riferimento allo Standard di Prodotto:* **EN 14041 "Rivestimenti resistenti, tessili e laminati per pavimentazioni - Caratteristiche essenziali"**  
*Reference to the Harmonised Standard: EN 14041 "Resilient, textile and laminate floor coverings - Essential characteristics".*
- Nome ed indirizzo dell'Organismo Notificato (NB)* **L.A.PI. LABORATORIO PREVENZIONE INCENDI SpA**  
*Notified Body (NB) name and address* **Via della Quercia, 11- Loc. La Querce  
59100 PRATO - ITALY**



Laboratorio Prevenzione Incendi SpA

Notified Body N° 0987

**Certificato** **di Valutazione e Verifica della Costanza della Prestazione di Prodotto: n. 112**  
**Certificato** **of evaluation and verification of Constancy of Performance of product: n. 112**

### PRESTAZIONE DICHIARATA DECLARED PERFORMANCE

Caratteristiche / Characteristics	Prestazione / Performance	Standard di Prodotto / Harmonised Standard
Euroclasse di reazione al fuoco secondo la norma EN 13501-1 Reaction to fire Class in accordance to EN 13501-1:	Bfl-s1	EN 14041
Schvolzität - Slip resistance	N.P.D.	
Classe di formaldeide - formaldehyde class	E1	

La Prestazione del Prodotto è in accordo alle specifiche dichiarate sopra  
The Performance of the product is in accordance with the specification given above

*Signature/Firma:*   
*Name/Nome:*  
*Position/Posizione:* Presidente  
*Title/Titolo:*  
*Date/Data:* vedi ddt allegato



# FLOORINGS – PVC



FLOORINGS

**The optional floors are of heterogeneous vinyl and anti-slip type (PVC):** Made of sheets of phthalate-free polyvinyl chloride, it consists of 3 indelaminable layers, protected by a polyurethane finish (PUR) and complying with all the requirements of [EN 13845](#).

The anti-slip property is guaranteed for the entire floor lifecycle.

1. The wear layer of 0.7 mm, in pure coloured PVC (reinforced with slip resistant particles for dark grey, light grey and red finishes), is refined with a PUR (polyurethane) surface finish that guarantees ease of ordinary and extraordinary maintenance.
2. The impregnated glass fibre interlayer provides excellent dimensional stability and flexibility for easy installation.
3. The last layer, a compact substrate made of **recycled vinyl and controlled up to a maximum of 70%**, ensures excellent resistance to residual impressions.

Designed and manufactured in Europe using 100% green energy.

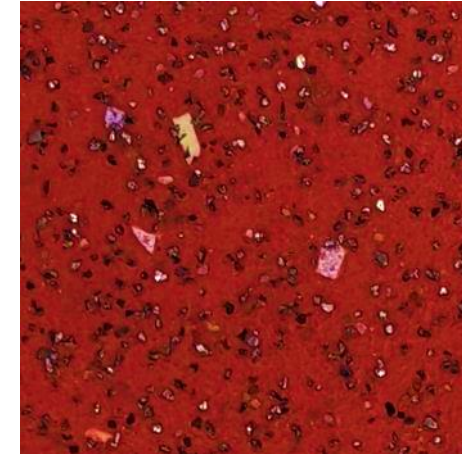
Compliant with [EN-ISO 10582](#) and [EN 14041](#) and CE certified.

The production unit is [ISO 9001](#) and [14001](#) certified.

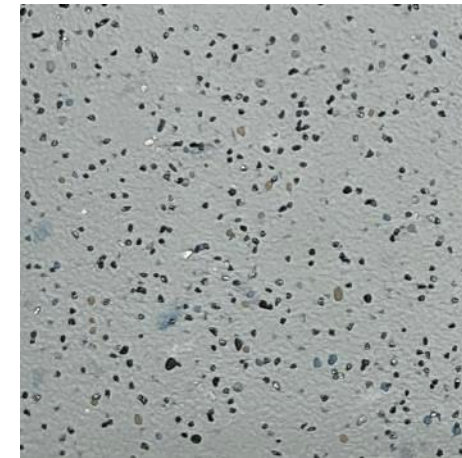
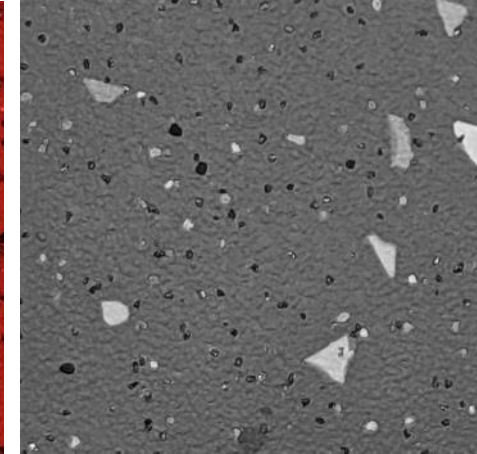
The installation and maintenance of the flooring must comply with the norm [UNI 11515-1 2015](#).



RED



DARK GREY



LIGHT GREY



WILD PEAR





### MAIN CHARACTERISTICS

		Compliant to
Thickness	2.0 mm	<a href="#">EN ISO 24341</a>
Thickness wear layer	0.7 mm	<a href="#">EN ISO 24340</a>
Weight	2.75 kg/m <sup>2</sup>	<a href="#">EN ISO 23997</a>
Usage class	34 + 43	<a href="#">EN ISO 10874</a>
Residual indentation	≤ 0.05 mm	<a href="#">EN 13501-1</a>
Reaction to fire	Bfl- s1 (min smoke)	EN 4918
Castor chair passage resistance	suitable	<a href="#">EN 660-1</a>
Abrasion resistance	T group	<a href="#">EN 13845</a>
Anti-slip properties	ESf < 10% thickness loss after 50,000 revolutions, R11	<a href="#">EN 13893</a>
Slip resistance	DS (μ ≥ 0.30)	<a href="#">EN ISO 23999</a>
Dimension stability	< 0,1%	<a href="#">EN ISO 24344</a>
Flexibility	Ø 10 mm	EN ISO 105 B 02 EN ISO 16581
Light fastness	≥ 6 blue scale	EN 12524
Thermal conductivity	0.25 W/ (mK)	<a href="#">EN 1815</a>
Body voltage	E ≤ 2 kV (anti-static)	EN ISO 26897
Resistance to chemicals	Very good	EN ISO 16000 (ISO 10580)



# FLOORINGS – CERTIFICATES

FLOORINGS

<b>CE</b>	<b>DICHIARAZIONE DI PRESTAZIONE</b>	
1. Codice di identificazione unico del prodotto-tipo: 0200101-DoP-306		
2. Numero di tipo, lotto, serie o qualsiasi altro elemento che consenta l'identificazione del prodotto da costruzione ai sensi dell'articolo 11, paragrafo 4: (EN 13845)		
3. Uso o usi previsti del prodotto da costruzione, conformemente alla relativa specifica tecnica armonizzata, come previsto dal fabbricante: Per l'uso come pavimentazione in edifici (vedi EN 14041) secondo le specifiche del produttore.		
4. Nome, denominazione commerciale registrata o marchio registrato e indirizzo del fabbricante ai sensi dell'articolo 11, paragrafo 5:		
5. Se opportuno, nome e indirizzo del mandatario il cui mandato copre i compiti cui all'articolo 12, paragrafo 2:		
6. Sistema o sistemi di valutazione e verifica della costanza della prestazione del prodotto da costruzione di cui all'allegato V: Sistema 3		
7. Nel caso di una dichiarazione di prestazione relativa ad un prodotto da costruzione che rientra nell'ambito di applicazione di una norma armonizzata: Nome dell'ente certificatore che ha rilasciato il rapporto di prova sulla base del campione inviato dal produttore: TÜV Rheinland Nederland B.V. Josink Esweg 10 7545 PN Enschede, Netherlands Notified laboratory n°336		
8. Nel caso di una dichiarazione di prestazione relativa ad un prodotto da costruzione per il quale è stata rilasciata una valutazione tecnica europea: non applicabile		
9. Prestazione dichiarata		
Caratteristiche essenziali	Prestazione	Specifiche tecniche armonizzate
Comportamento al fuoco		EN 14041: 2004/AC:2006
Pentaclorofenolo		EN 14041: 2004/AC:2006
Emissione di formaldeide		EN 14041: 2004/AC:2006
Resistenza allo scivolamento		EN 14041: 2004/AC:2006
Comportamento all'elettricità (dissipativo)	NPD	EN 14041: 2004/AC:2006
Comportamento all'elettricità (conduttivo)	NPD	EN 14041: 2004/AC:2006
Comportamento all'elettricità (antistatico)	NPD	EN 14041: 2004/AC:2006
Conduttività termica [W/mK]	0.25 W/m.K	EN 14041: 2004/AC:2006
Tenuta stagna	NPD	EN 14041: 2004/AC:2006
10. La prestazione del prodotto di cui ai punti 1 e 2 è conforme alla prestazione dichiarata di cui al punto 9. Si rilascia la presente dichiarazione di prestazione sotto la responsabilità esclusiva del fabbricante di cui al punto 4. Firmato a nome e per conto di: Director Operations: David Glancy Coevorden, 30-6-2013		

## ENVIRONMENTAL PRODUCT DECLARATION

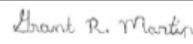
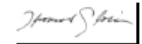


Resilient Heterogeneous Vinyl Floor Covering

According to ISO 14025 and EN 15804

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. **Exclusions:** EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. **Accuracy of Results:** EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. **Comparability:** EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.



PROGRAM OPERATOR	UL Environment 333 Pfingsten Road Northbrook, IL 60011
DECLARATION HOLDER	
DECLARATION NUMBER	4788294459.106.1
DECLARED PRODUCT	Resilient Heterogeneous Vinyl Floor Covering
REFERENCE PCR	EN 16810: Resilient, Textile and Laminate floor coverings – Environmental product declarations – Product category rules
DATE OF ISSUE	July 19, 2018
PERIOD OF VALIDITY	5 Years
CONTENTS OF THE DECLARATION	Product definition and information about building physics Information about basic material and the material's origin Description of the product's manufacture Indication of product processing Information about the in-use conditions Life cycle assessment results Testing results and verifications
The PCR review was conducted by:	PCR Review Panel
This declaration was independently verified in accordance with ISO 14025 by Underwriters Laboratories <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL	 Grant R. Martin, UL Environment
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	 Thomas P. Gloria, Industrial Ecology Consultants

This EPD conforms with EN 15804

vimec



# FLOORINGS – FLOORING KIT AT CUSTOMER'S CHOICE

As alternative to the 8 floors available in the E10 catalogue, it is also possible to fit a flooring at customer's choice. In this case, Vimec provides a **kit** including customized brackets to host the floor without any additional operations.

Vimec asks for the following information in order to prepare the right kit:

- **Material**
- **Estimated thickness** - Vimec guarantees that the kit can fit floors with a maximum thickness of 20 mm.
- **Weight** - Vimec estimates a maximum weight of 20 kg/m<sup>2</sup>.
- Any additional operation to be performed inside the cabin to fit the floor.

For floors with a thickness or weight greater than the above, a specific evaluation by the Technical Department is required.

The dimension will be adapted to the chosen platform.



For the installation, it is not necessary to make any hole in the floor!

*You can find it in the price list as: Kit platform flooring at dealer's charge*

# CABIN INTERIORS

## CEILING AND LIGHTING

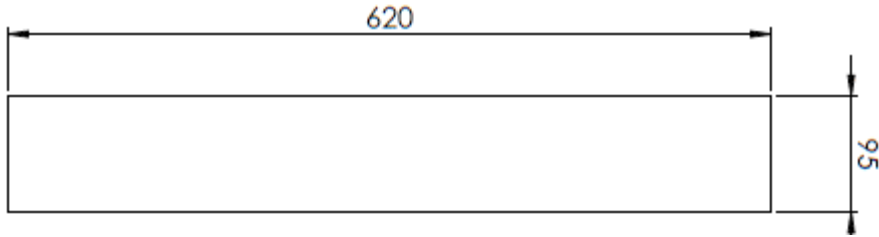
# CEILING AND LIGHTING



CEILING

The E10 ceiling is made in the same finish as the walls (including stainless steel finishes) and features an LED bar positioned above the COP.

The dimensions of the ceiling are proportional to the dimensions of the cabin, while the LED bar has the following dimensions:



The LED bar consists of 2 LED strips, contained within a steel housing, and a 2 mm thick white polycarbonate diffuser.



## LED STRIP CHARACTERISTICS

Power supply: 12VDC

Length: 500mm

Temperature and colour:  $\geq 6000$ -7000K

Lumen:  $\geq 900$ lm/m



As an option, it is possible to order the "starry sky" ceiling version consisting of a polycarbonate diffuser of the same extension as the roof and 4 LED strips arranged in pairs. In this case, the steel sheet is always of the coated type and standard colour grey (this ceiling is not available in stainless steel finishes).

In the event of a blackout, the lights in the cab always stay on.



You can find it in the price list as: Cabin roof "starry sky" version.



# LIGHTING – ELEVATOR SHAFT

LIGHTING



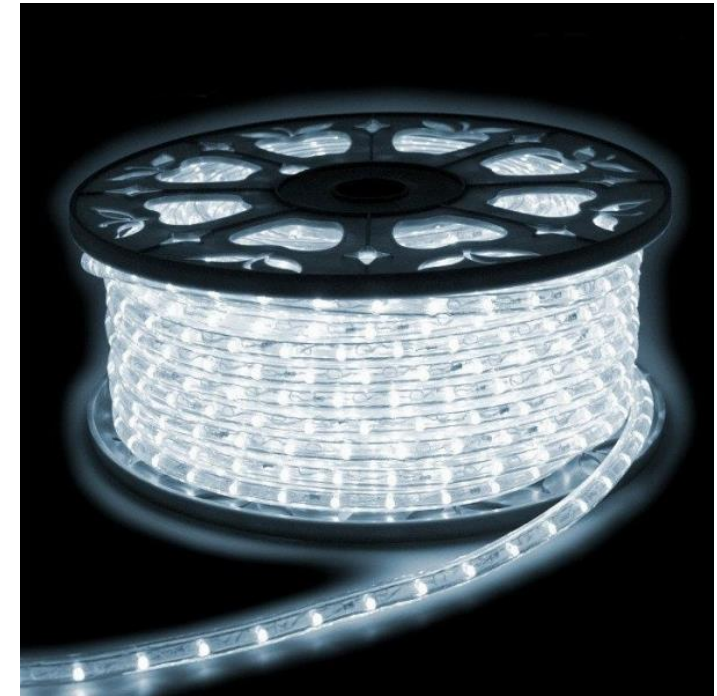
In accordance with the European Directive 2006/42/EC 1.1.4, all internal components requiring frequent inspection, adjustment and maintenance must be equipped with adequate lighting - for this reason, an auxiliary **LED lighting** system for the **shaft** is now available which can also be easily installed on existing systems.

The kit consists of a reel of white LED strips, available in **5, 11 or 20 metre** versions, and only requires a dedicated electrical socket and switch.

The LED strips are fixed along the rail side with fixing clips supplied in the kit.

The kit can be installed in both masonry and metal structure.

MAIN CHARACTERISTICS	
Input voltage	230VAC +/- 10% 50 / 60 Hz
Max. current	0.5 A
Lumens/m	400 L/m
Working temperature	-10 / 40° C
Degree protection	<a href="#">IP65</a>
Length (m)	5, 11 o 20
Dimensions	11.3 x 7.5 mm



*You can find it in the price list as: Elevator shaft lighting*

**vimec**

# DOORS and ACCESSES

# DOORS AND ACCESSSES – SALES MEMO

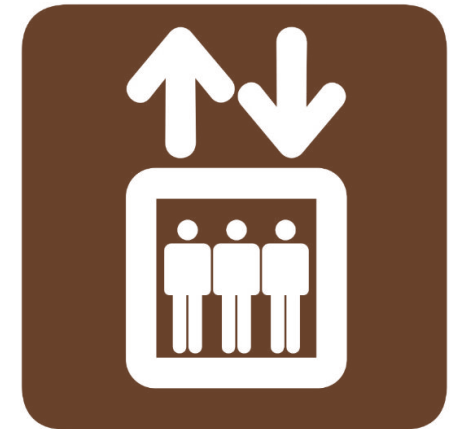
## ✓ Limits:

- **Access per floor:** Max **2**
- **Cabin doors:** Max **2**
- **Access per installation** (std): Max **6**
- **Floors served** (std): Max **5**

It is possible, prior to a dedicated project and approval by Technical Dept, to build a machine with more accesses or served floors.

## Load capacity (kg) variation according to the doors





Cabin type	E10 Standard	E10 HL / LT
Cabin without doors	400	500
Cabin with 1 automatic cab door	300	400
Cabin with 1 glass telescopic door	-	350
Cabin with 2 automatic cab doors	300	400



# DOORS AND ACCESSSES- SALES MEMO






## SWING DOORS - Overview

Standard	N.B.
➤ <b>Dead man's manoeuvre</b> in cabin	
➤ Landing call with <b>single touch</b> 	
➤ <b>Full height infrared barrier</b> 	
➤ <b>Door closer</b> 	Door automation available as option 
➤ <b>Locks</b> always present	Kit also available
➤ <b>VIMEC 7040</b>	7038 for fire rated or fire-proof doors

# DOORS AND ACCESSSES – SALES MEMO

## AUTOMATIC DOORS – Overview

Standard	N.B.
➤ <b>Automatic manoeuvre</b> in cabin	<b>Maximum depth</b> (rail side – door side distance): <ul style="list-style-type: none"><li>• 1250 mm for all telescopic doors (1400x900 and 1400x1140 platforms are not available with telescopic doors)</li><li>• 1170 mm for glass telescopic doors (HL version only)</li></ul>
➤ Landing call with <b>single touch</b> 	
➤ <b>Safety block for cabin doors</b> (with more than 2 stops) 	
➤ <b>Full height infrared barrier</b> 	
➤ <b>Similinox</b> finish	

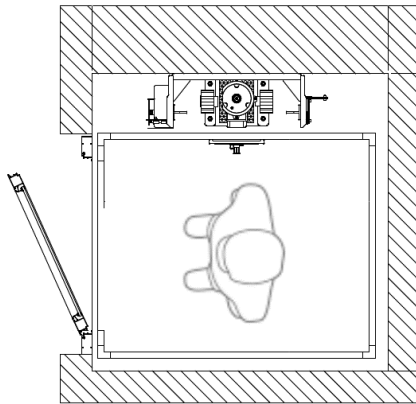
# DOORS AND ACCESSSES - OVERVIEW

The information contained in the following slide refer to both **cabin doors** and **floor doors**.

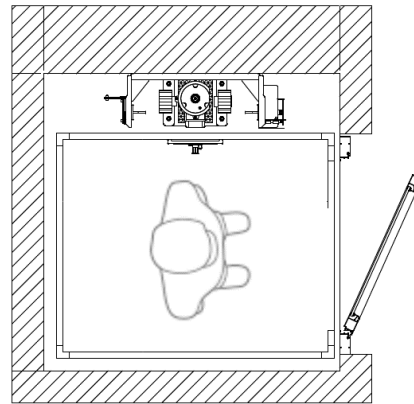
Different door types are available according to the opening mode:

- Single-hinged (floor only)
- Double-hinged (floor only)
- Telescopic automatic (both cabin and floor)

All the doors can be provided with right-hand or left-hand side opening (considering opening the door from inside of the cabin, standing in front of the door).



Left-hand side  
opening



Right-hand side  
opening

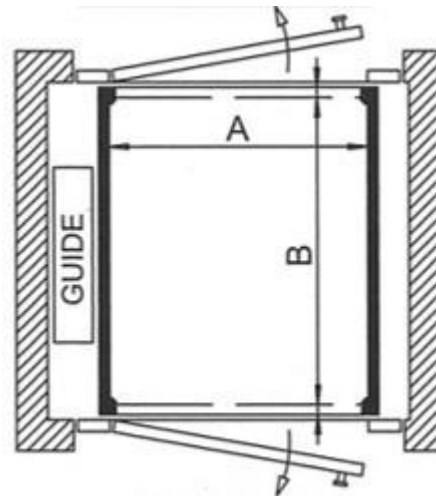
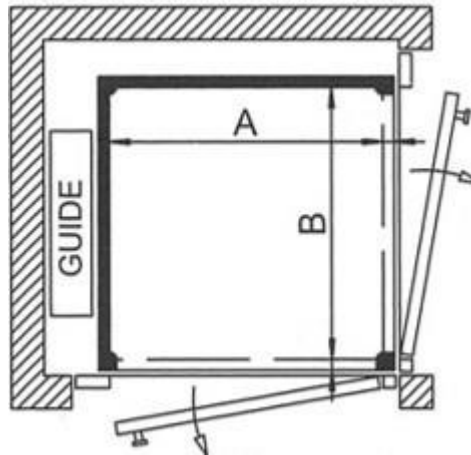


# DOORS AND ACCESSSES - OVERVIEW

The maximum number of accesses on each floor is 2, for a total of 6 accesses per structure (given the maximum 5 stops as standard).

Access type can be:

- Adjacent
- Opposite (*passing-through*)





# DIMENSIONS - STANDARD

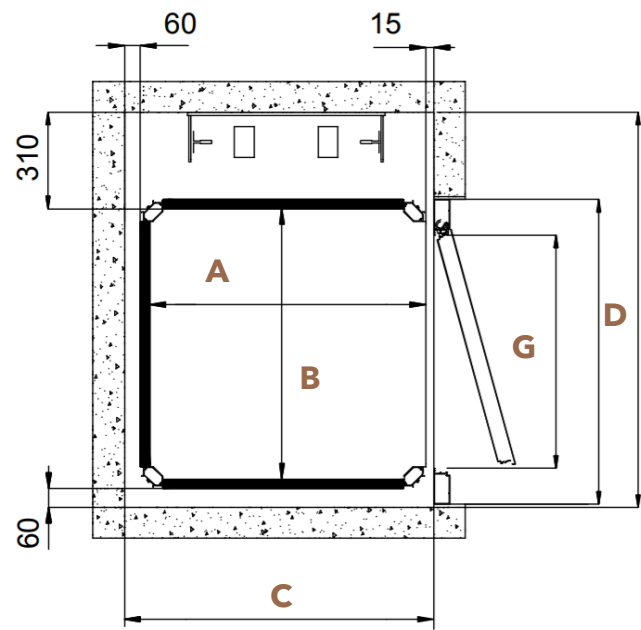
Standard door height = 2000 mm (alternative heights = 2100 mm, 2200 mm)  
Standard cabin height = 2100 mm

WIDTH	600	650	700	750	800	860	900	950	1000
Panel door (single-hinged)	•	•	•	•	•	•	•	•	•
Panoramic panel door (single-hinged)					•	•	•		
Aluminum panoramic door (single-hinged)	•	•	•	•	•	•	•	•	•
Double-hinged door			•	•	•		•		•
Automatic telescopic 2 panel door			•	•	•		•		
Automatic telescopic 3 panel door	•	•	•	•	•		•		
Automatic telescopic 4 panel door				•	•		•		
EI fire-rated door	•	•	•	•	•	•	•	•	•
UK FIREPROOF door	•	•	•	•	•	•	•	•	•



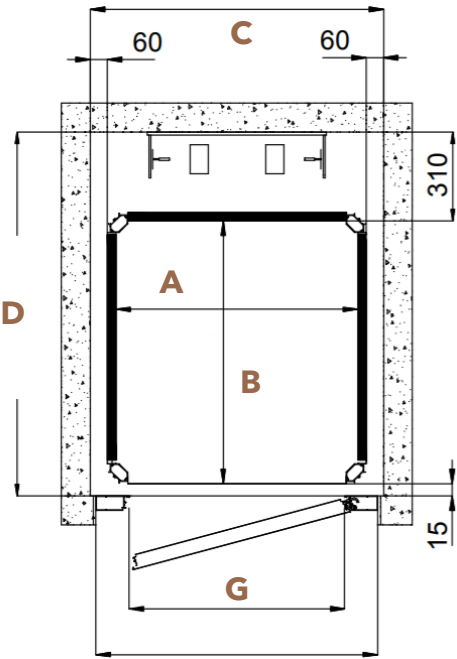
# DIMENSIONS – MASONRY SHAFT WITH SWING DOOR

The next slides contain some indications on the maximum door width allowed with the more common platforms. Moreover, some suggestions are given on the minimum dimensions of masonry shaft/metal structure according to the different platforms.



Side entrance

PLATFORM				DOOR	SHAFT	
A	B	A*	B*	G WIDTH (max)	C WIDTH (min)	D DEPTH (min)
900	900	870	<b>870</b>	800	975	1270
1250	1000	1220	<b>970</b>	860	1325	1370
1400	1100	1340	<b>1070</b>	950	1475	1470

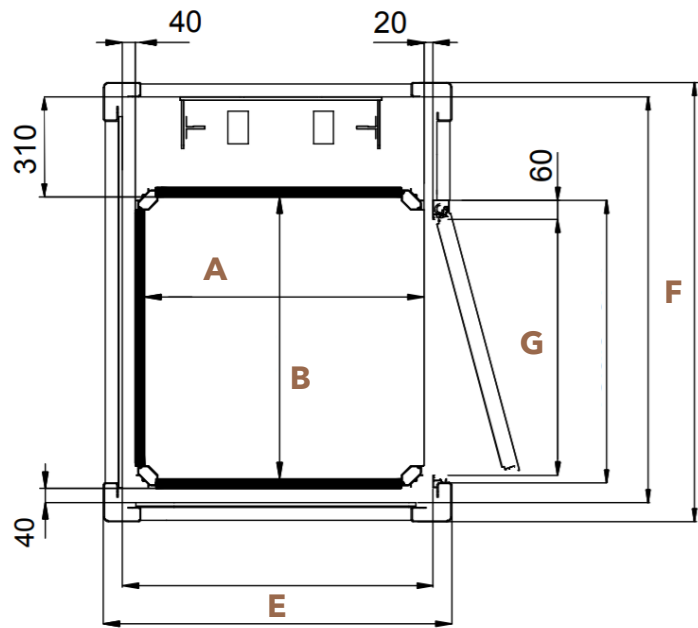


Front entrance

PLATFORM				DOOR	SHAFT	
A	B	A*	B*	G WIDTH (max)	E WIDTH (min)	F DEPTH (min)
900	900	<b>840</b>	900	750	1020	1225
1250	1000	<b>1190</b>	1000	1000	1370	1325
1400	1100	<b>1340</b>	1100	1000	1520	1425

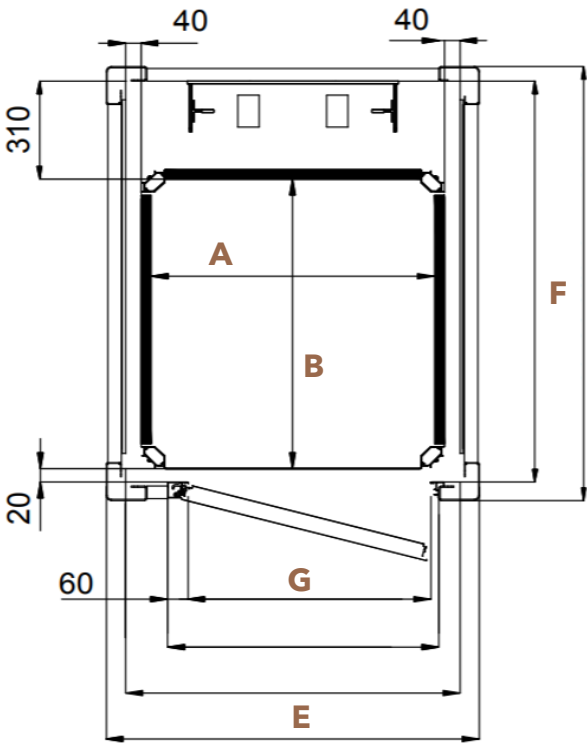
\*walkable

# DIMENSIONS – METAL STRUCTURE WITH SWING DOOR



Side entrance

PLATFORM				DOOR	STRUCTURE	
A	B	A*	B*	G WIDTH (max)	E WIDTH (min)	F DEPTH (min)
900	900	870	<b>870</b>	790	1075	1355
1250	1000	1220	<b>970</b>	890	1425	1455
1400	1100	1370	<b>1070</b>	990	1575	1555

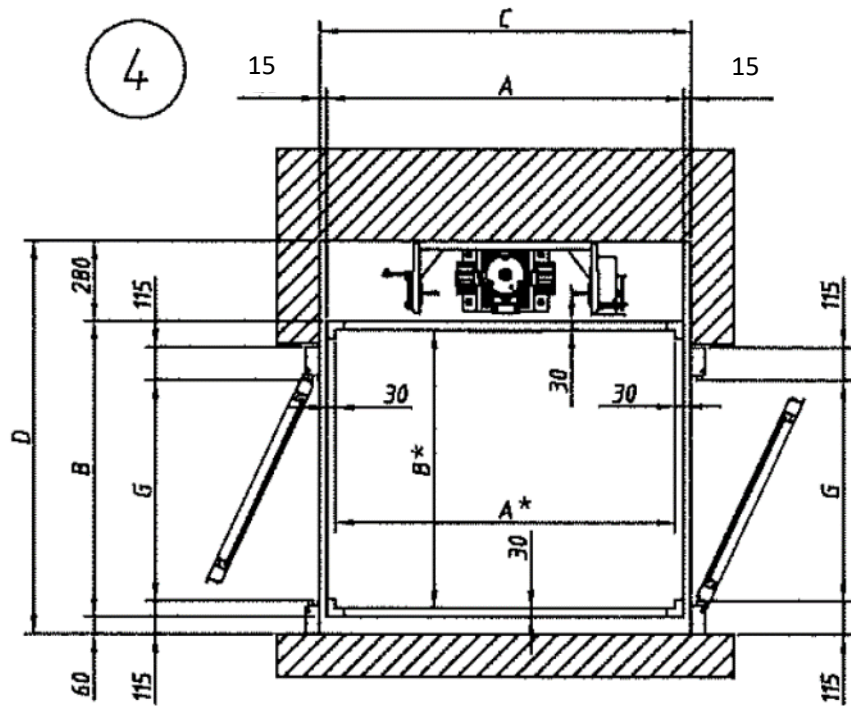


Front entrance

PLATFORM				DOOR	STRUCTURE	
A	B	A*	B*	G WIDTH (max)	E WIDTH (min)	F DEPTH (min)
900	900	<b>840</b>	900	800	1095	1335
1250	1000	<b>1190</b>	1000	1000	1445	1435
1400	1100	<b>1340</b>	1100	1000	1595	1535

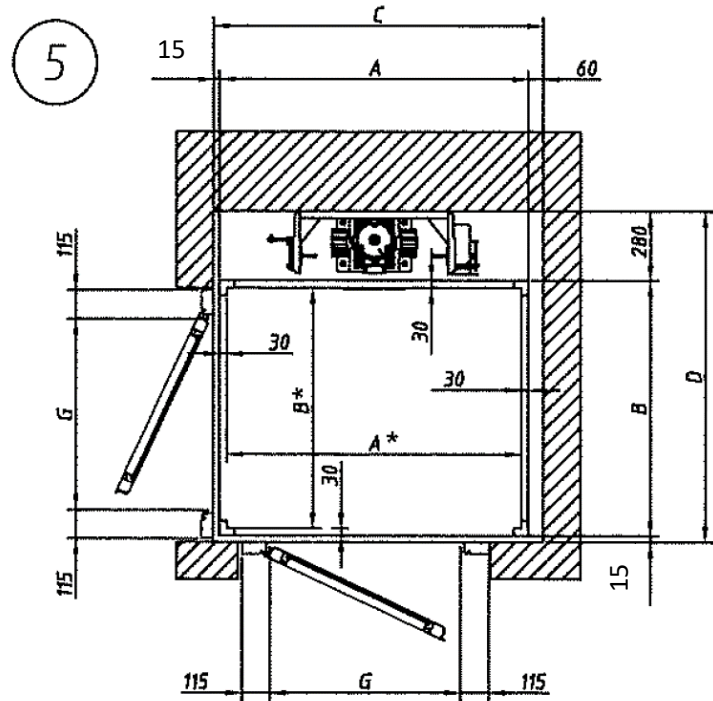
\*walkable

# DIMENSIONS - MASONRY SHAFT WITH 2 SWING DOORS



Opposite entrances

PLATFORM				DOOR 1	DOOR 2	SHAFT	
A	B	A*	B*	G' (B)	G (B)	C	D
				WIDTH (max)	WIDTH (max)	WIDTH (min)	DEPTH (min)
900	900	870	<b>870</b>	800	800	930	1270
1250	1000	1220	<b>970</b>	860	860	1280	1370
1400	1100	1370	<b>1070</b>	900	900	1430	1470

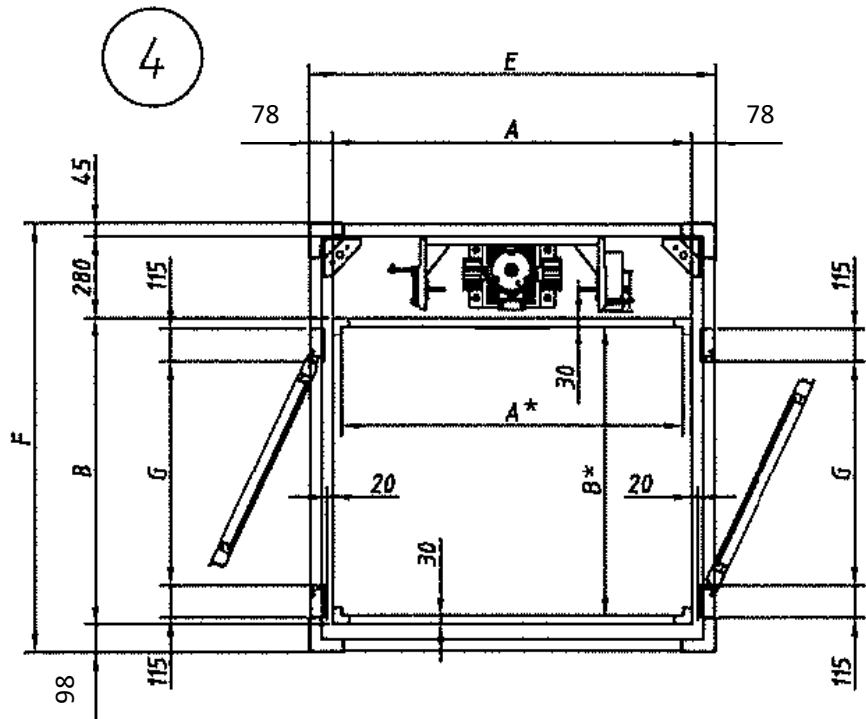


Adjacent entrances

PLATFORM				DOOR 1	DOOR 2	SHAFT	
A	B	A*	B*	G' (B)	G (B)	C	D
				WIDTH (max)	WIDTH (max)	WIDTH (min)	DEPTH (min)
900	900	<b>840</b>	<b>900</b>	700	700	975	1225
1250	1000	<b>1190</b>	<b>1000</b>	900	800	1325	1325
1400	1100	<b>1340</b>	<b>1100</b>	900	900	1475	1425

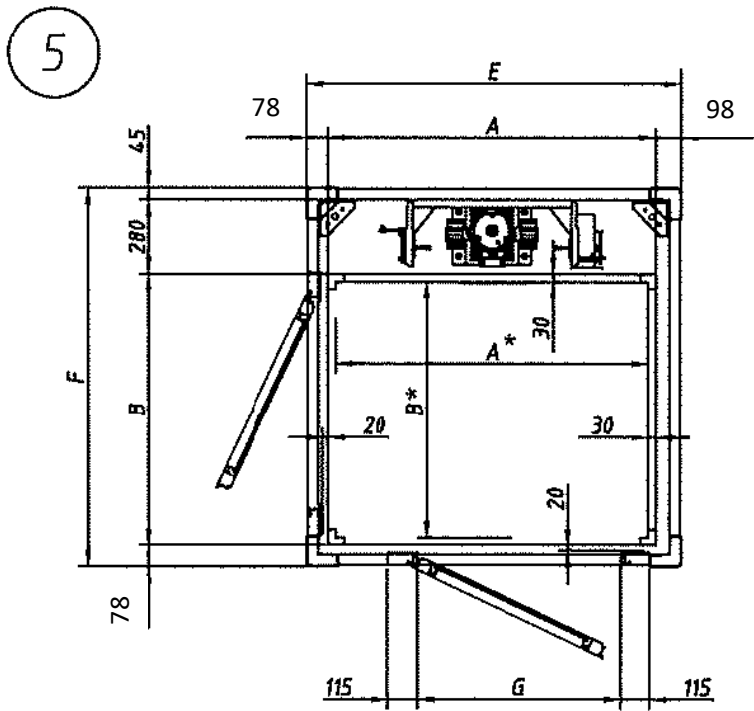
\*walkable

# DIMENSIONS - METAL STRUCTURE WITH 2 SWING DOORS



Opposite entrances

PLATFORM				DOOR 1	DOOR 2	STRUCTURE	
A	B	A*	B*	G' (B)	G (B)	E	F
				WIDTH (max)	WIDTH (max)	WIDTH (min)	DEPTH (min)
900	900	870	<b>870</b>	790	790	1055	1355
1250	1000	1220	<b>970</b>	890	890	1405	1455
1400	1100	1370	<b>1070</b>	990	990	1555	1555



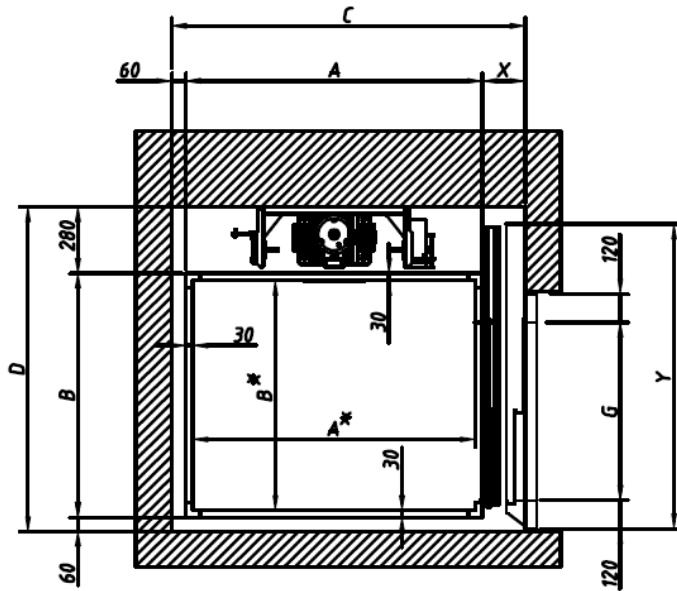
Adjacent entrances

PLATFORM				DOOR 1	DOOR 2	STRUCTURE	
A	B	A*	B*	G' (B)	G (B)	E	F
				WIDTH (max)	WIDTH (max)	WIDTH (min)	DEPTH (min)
900	900	<b>840</b>	<b>900</b>	800	790	1075	1335
1250	1000	<b>1190</b>	<b>1000</b>	1000	890	1425	1435
1400	1100	<b>1340</b>	<b>1100</b>	1000	990	1575	1535

\*walkable

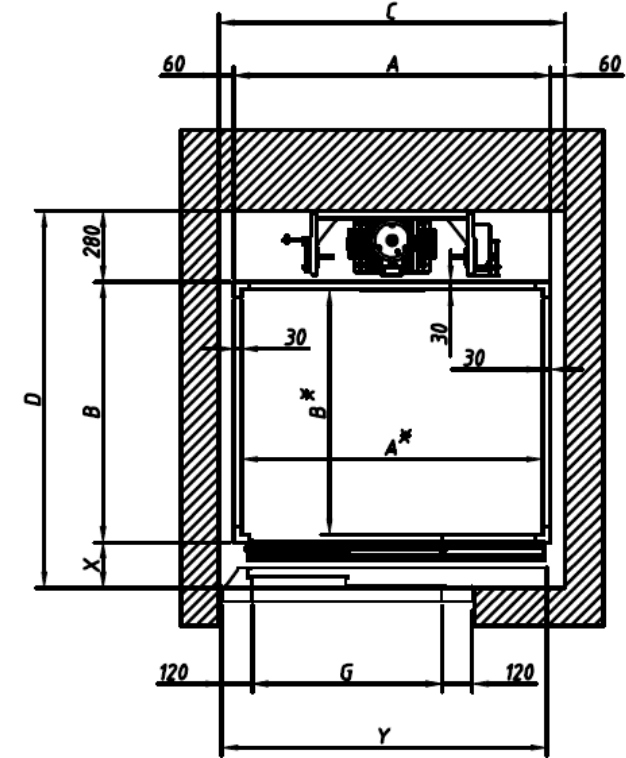
# DIMENSIONS – MASONRY SHAFT WITH TELESCOPIC DOOR

DOORS



DOOR ENCUMBRANCE (Y)		
	T2	T3
DOOR WIDTH (G)	700	1145
	750	1215
	800	1280
	900	1415

THRESHOLD (X)	
180	215



Side entrance with T2 DOOR

Side entrance with T3 DOOR

Front entrance with T2 DOOR

Front entrance with T3 DOOR

PLATFORM				DOOR	SHAFT	
A	B	A*	B*	G	C	D
				WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	<b>970</b>	700	1490	1340
1300	1030	1240	<b>1000</b>	750	1540	1370
1400	1100	1340	<b>1070</b>	800	1640	1440
1460	1170	1400	<b>1140</b>	800	1700	1510

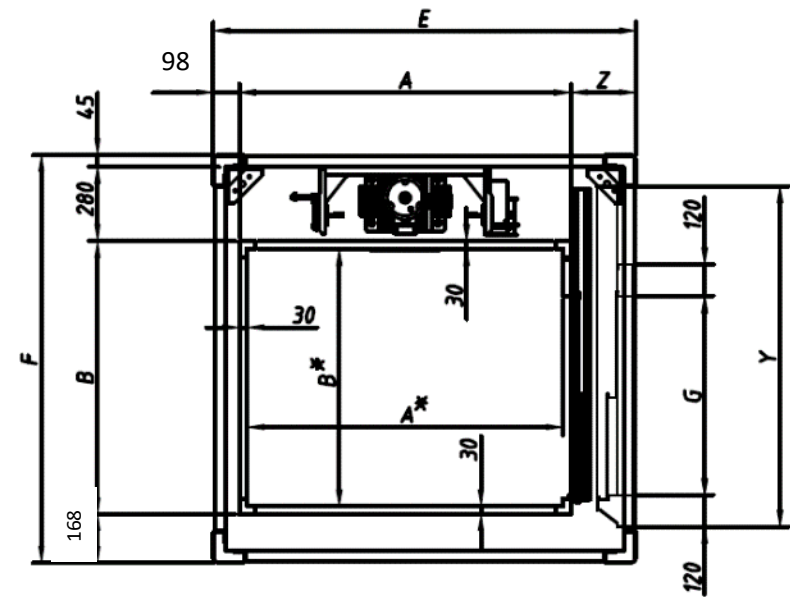
PLATFORM				DOOR	SHAFT	
A	B	A*	B*	G	C	D
				WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	<b>970</b>	700	1525	1340
1300	1030	1240	<b>1000</b>	750	1575	1370
1400	1100	1340	<b>1070</b>	800	1675	1440
1460	1170	1400	<b>1140</b>	800	1735	1510

PLATFORM				DOOR	SHAFT	
A	B	A*	B*	G	C	D
				WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	<b>970</b>	750	1370	1460
1300	1030	1240	<b>1000</b>	800	1420	1490
1400	1100	1340	<b>1070</b>	800	1520	1560
1460	1170	1400	<b>1140</b>	900	1580	1630

PLATFORM				DOOR	SHAFT	
A	B	A*	B*	G	C	D
				WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	<b>970</b>	750	1370	1495
1300	1030	1240	<b>1000</b>	800	1420	1525
1400	1100	1340	<b>1070</b>	800	1520	1595
1460	1170	1400	<b>1140</b>	900	1580	1665

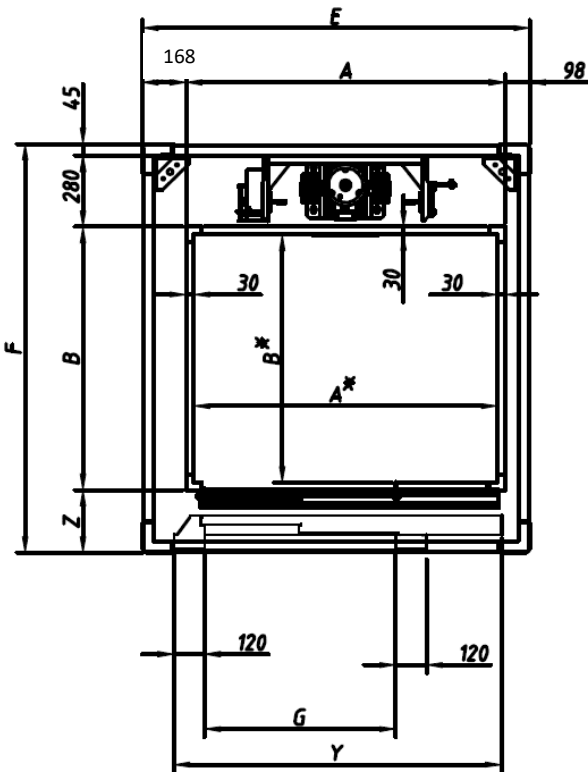
\*walkable

# DIMENSIONS – METAL STRUCTURE WITH TELESCOPIC DOOR



			DOOR ENCUMBRANCE (Y)	
			T2	T3
DOOR WIDTH (G)	700		1265	1145
	750		1340	1215
	800		1415	1280
	900		1565	1415

THRESHOLD (Z)	
245	280



Side entrance with T2 DOOR

PLATFORM				DOOR	STRUCTURE	
A	B	A*	B*	G	E	F
				WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	970	800	1595	1525
1300	1030	1240	1000	800	1645	1555
1400	1100	1340	1070	900	1745	1625
1460	1170	1400	1140	900	1805	1695

Side entrance with T3 DOOR

PLATFORM				DOOR	STRUCTURE	
A	B	A*	B*	G	E	F
				WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	970	800	1630	1525
1300	1030	1240	1000	800	1680	1555
1400	1100	1340	1070	900	1780	1625
1460	1170	1400	1140	900	1840	1695

Front entrance with T2 DOOR

PLATFORM				DOOR	STRUCTURE	
A	B	A*	B*	G	E	F
				WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	970	800	1515	1600
1300	1030	1240	1000	800	1565	1630
1400	1100	1340	1070	900	1665	1700
1460	1170	1400	1140	900	1725	1770

Front entrance with T3 DOOR

PLATFORM				DOOR	STRUCTURE	
A	B	A*	B*	G	E	F
				WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	970	900	1515	1635
1300	1030	1240	1000	900	1565	1665
1400	1100	1340	1070	900	1665	1735
1460	1170	1400	1140	900	1725	1805

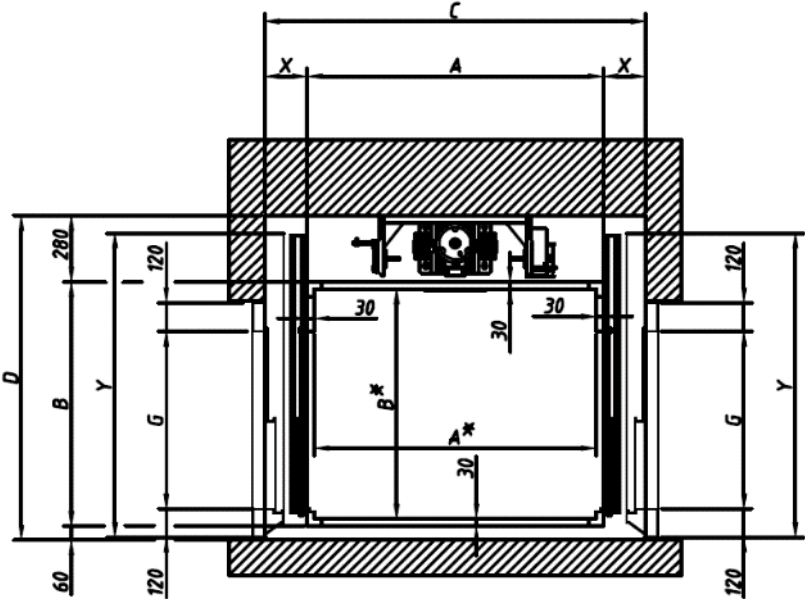
\*walkable



# DIMENSIONS – MASONRY SHAFT WITH 2 TELESCOPIC DOORS

		DOOR ENCUMBRANCE (Y)	
		T2	T3
DOOR WIDTH (G)	700	1265	1145
	750	1340	1215
	800	1415	1280
	900	1565	1415

THRESHOLD (X)	
180	215



Opposite entrances with T2 doors

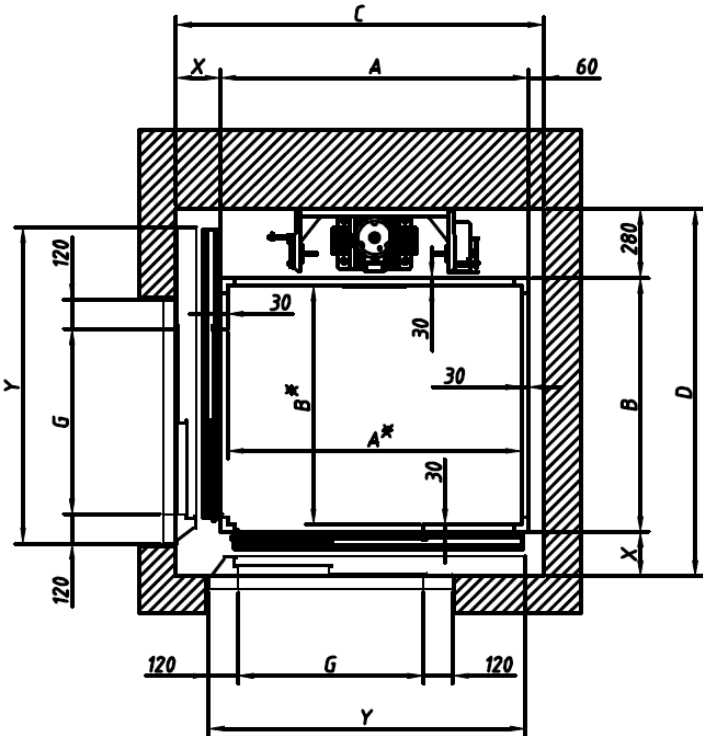
PLATFORM				DOOR 1	DOOR 2	SHAFT	
A	B	A*	B*	G' (A)	G (B)	C	D
				WIDTH (max)	WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	<b>970</b>	700	700	1610	1340
1300	1030	1240	<b>1000</b>	750	750	1660	1370
1400	1100	1340	<b>1070</b>	800	800	1760	1440
1460	1170	1400	<b>1140</b>	800	800	1820	1510

Opposite entrances with T3 doors

PLATFORM				DOOR 1	DOOR 2	SHAFT	
A	B	A*	B*	G' (A)	G (B)	C	D
				WIDTH (max)	WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	<b>970</b>	700	700	1680	1340
1300	1030	1240	<b>1000</b>	750	750	1730	1370
1400	1100	1340	<b>1070</b>	800	800	1830	1440
1460	1170	1400	<b>1140</b>	800	800	1890	1510

\*walkable

# DIMENSIONS - MASONRY SHAFT WITH 2 TELESCOPIC DOORS



DOOR ENCUMBRANCE (Y)			
		T2	T3
DOOR WIDTH (G)	700	1265	1145
	750	1340	1215
	800	1415	1280
	900	1565	1415

THRESHOLD (X)	
180	215

Adjacent entrances with T2 doors

PLATFORM				DOOR 1	DOOR 2	SHAFT	
A	B	A*	B*	G' (A)	G (B)	C	D
				WIDTH (max)	WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	<b>970</b>	800	800	1490	1460
1300	1030	1240	<b>1000</b>	800	800	1540	1490
1400	1100	1340	<b>1070</b>	900	800	1640	1560
1460	1170	1400	<b>1140</b>	900	900	1700	1630

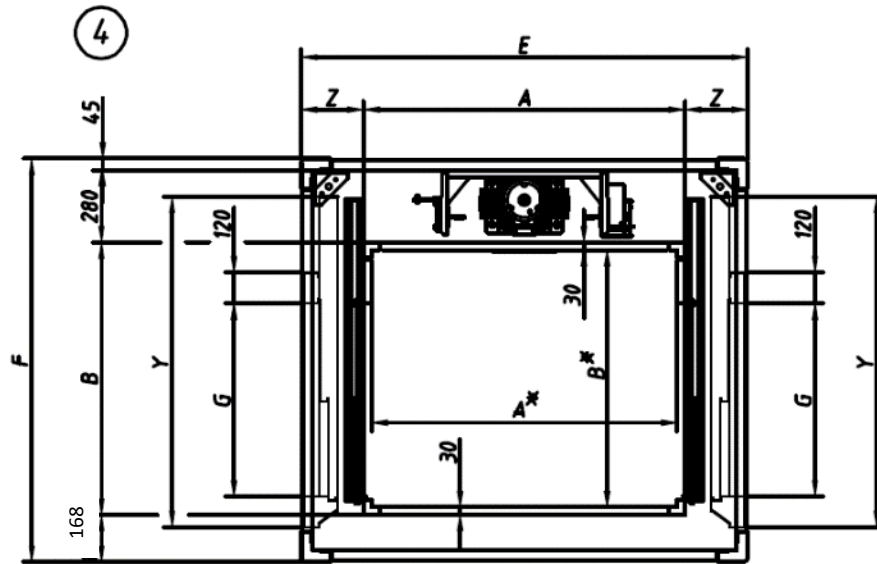
Adjacent entrances with T3 doors

PLATFORM				DOOR 1	DOOR 2	SHAFT	
A	B	A*	B*	G' (A)	G (B)	C	D
				WIDTH (max)	WIDTH (max)	WIDTH (min)	DEPTH (min)
1250	1000	1190	<b>970</b>	900	900	1525	1495
1300	1030	1240	<b>1000</b>	900	900	1575	1525
1400	1100	1340	<b>1070</b>	900	900	1675	1595
1460	1170	1400	<b>1140</b>	900	900	1735	1665

\*walkable

# DIMENSIONS – METAL STRUCTURE WITH 2 TELESCOPIC DOORS

DOORS



		DOOR ENCUMBRANCE (Y)	
		T2	T3
DOOR WIDTH (G)	700	1265	1145
	750	1340	1215
	800	1415	1280
	900	1565	1415

THRESHOLD (Z)	
245	280

Opposite entrances with T2 doors

PEDANA				PORTA 1	PORTA 2	STRUTTURA	
A	B	A*	B*	G' (A)	G (B)	E	F
				LARG. (max)	LARG. (max)	LARG. (min)	PROF. (min)
1250	1000	1190	<b>970</b>	800	800	1740	1525
1300	1030	1240	<b>1000</b>	800	800	1790	1555
1400	1100	1340	<b>1070</b>	900	900	1890	1625
1460	1170	1400	<b>1140</b>	900	900	1950	1695

Opposite entrances with T3 doors

PEDANA				PORTA 1	PORTA 2	STRUTTURA	
A	B	A*	B*	G' (A)	G (B)	E	F
				LARG. (max)	LARG. (max)	LARG. (min)	PROF. (min)
1250	1000	1190	<b>970</b>	900	900	1810	1525
1300	1030	1240	<b>1000</b>	900	900	1860	1555
1400	1100	1340	<b>1070</b>	900	900	1960	1625
1460	1170	1400	<b>1140</b>	900	900	2020	1695

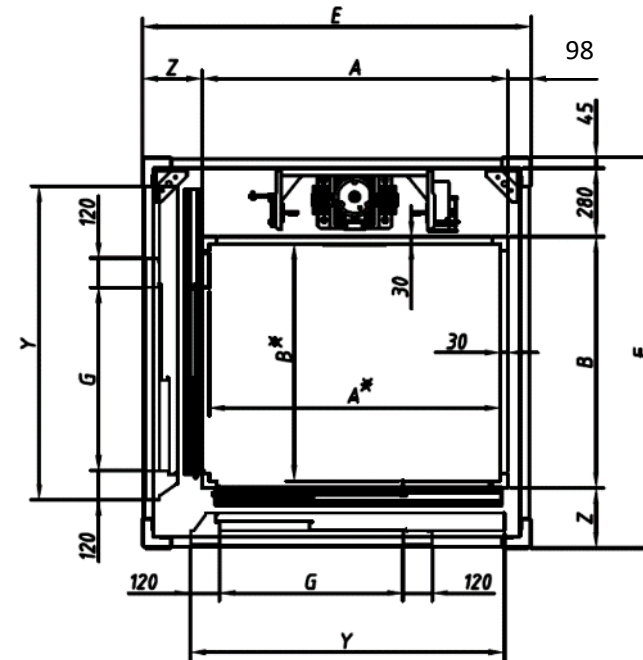
\*walkable

# DIMENSIONS – METAL STRUCTURE WITH 2 TELESCOPIC DOORS

DOORS

		DOOR ENCUMBRANCE (Y)	
		T2	T3
DOOR WIDTH (G)	700	1265	1145
	750	1340	1215
	800	1415	1280
	900	1565	1415

THRESHOLD (Z)	
245	280



Adjacent entrances with T2 doors

PEDANA				PORTA 1	PORTA 2	STRUTTURA	
A	B	A*	B*	G' (A)	G (B)	E	F
				LARG. (max)	LARG. (max)	LARG. (min)	PROF. (min)
1250	1000	1190	<b>970</b>	900	800	1595	1600
1300	1030	1240	<b>1000</b>	900	900	1645	1630
1400	1100	1340	<b>1070</b>	900	900	1745	1700
1460	1170	1400	<b>1140</b>	900	900	1805	1770

Adjacent entrances with T3 doors

PEDANA				PORTA 1	PORTA 2	STRUTTURA	
A	B	A*	B*	G' (A)	G (B)	E	F
				LARG. (max)	LARG. (max)	LARG. (min)	PROF. (min)
1250	1000	1190	<b>970</b>	900	900	1630	1635
1300	1030	1240	<b>1000</b>	900	900	1680	1665
1400	1100	1340	<b>1070</b>	900	900	1780	1735
1460	1170	1400	<b>1140</b>	900	900	1840	1805

\*walkable

vimec

# DIMENSIONS – HEADROOM VARIATIONS

DOORS

Door type	Door height (mm)	Cabin height (mm)	Headroom height (mm)	
Swing	2000	<b>2000</b>	<b>2450</b>	<i>standard</i>
		2100	2500	
		2200	2600	
	2100	2100	2500	<i>standard</i>
		2200	2600	
	2200	2200	2600	
Telescopic*	2000	<b>2100</b>	<b>2600</b>	
		2200	2650	
	2100	2100	2650	
		2200	2750	
	2200	2200	2750	

\*All glass telescopic doors are equipped with a 10 mm dust protection seal in the lower side.

\*In case of telescopic doors with Similinox finish, the only height available is 2000 mm

# SINGLE-HINGED - TYPES

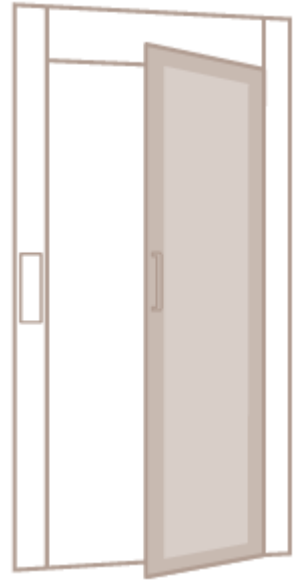
SWING  
DOORS

The following types of single-hinged doors are available:

- **Panel steel door** with or without view
- **Panoramic panel steel door** con with transparent or smoke-grey glass
- **Panoramic aluminum** door with transparent, smoke-grey, milky or [STOPSOL](#) glass
- **Fire-rated** [EN-8158 EI 60 or EI 120](#) with or without window
- **FIREPROOF** (UK) with or without window

Single-hinged doors comes with **dead man's manoeuvre (manual) as standard**. The landing call, instead is always automatic, both with mechanical and touch push-button.

A **door closer** is included in the standard equipment allowing the semi-automatic closing of the hinged door. **Door automation** is available as option (see dedicated [slide](#)).

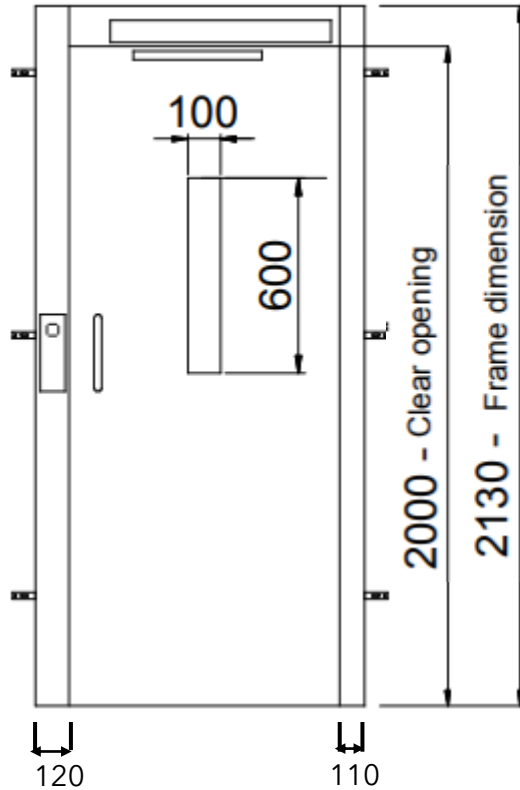


All types of hinged doors are compliant to the norm [EN 81.41-2011](#), particularly to what is indicated at par. 5.8.2 "swing hinged landing doors", point d) "Openings giving access to the platform shall be provided with landing doors which require a force to open them which is not more than 40 N at the handle".

# SINGLE-HINGED – TYPES AND DIMENSIONS

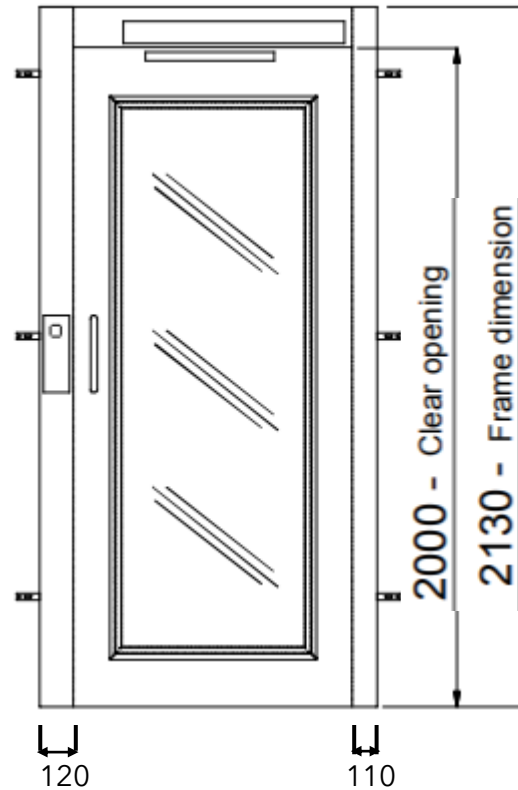
SWING  
DOORS

Steel door with window



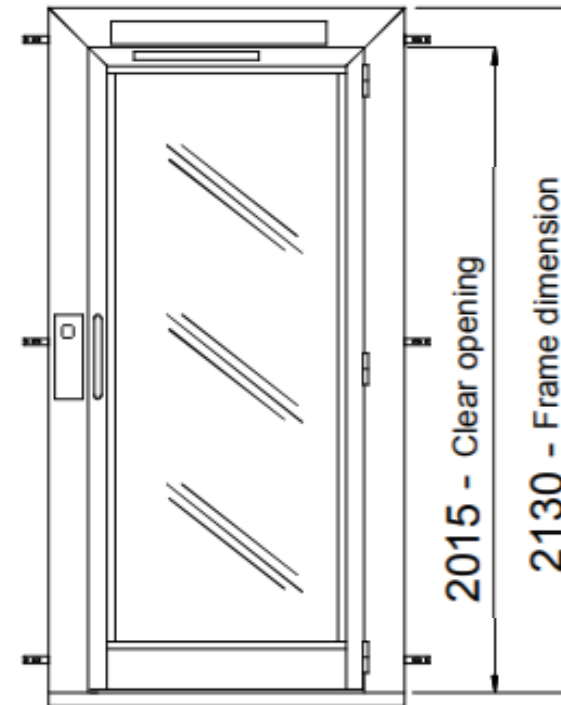
**Only for indoor installation**  
Available also without window

Panoramic steel door

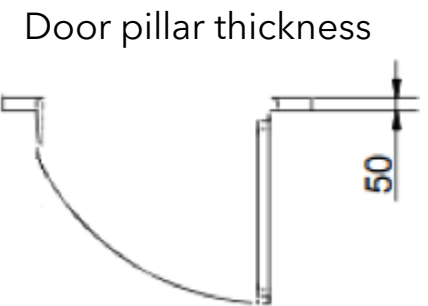


**Only for indoor installation**

Panoramic aluminum door



The entire structure, frame included, is made of aluminum

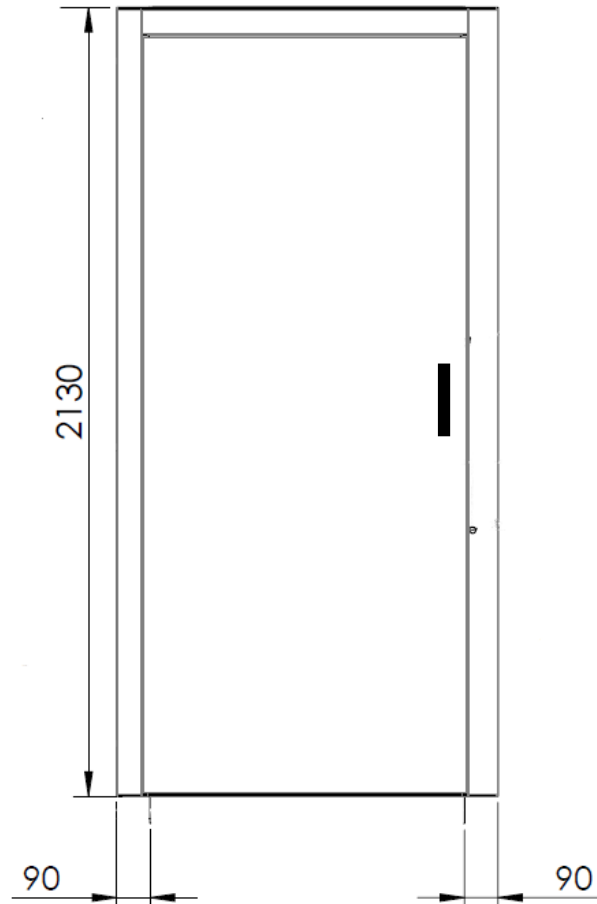




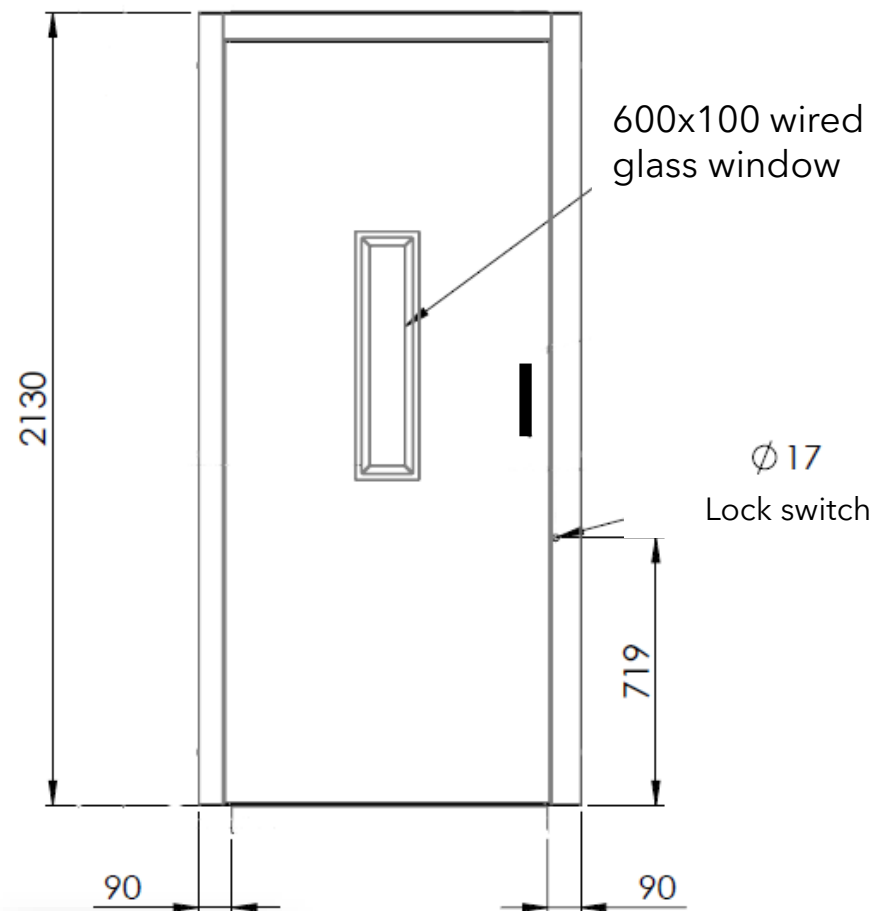
# SINGLE-HINGED – TYPES AND DIMENSIONS

SWING  
DOORS

EI 60 and 120 doors (steel)



Fireproof UK



All these doors are in 7038 as standard  
(other RAL colours are available as option)

RAL  
7038

warringtonfire  
Proud to be part of element



breglobal

vimec

# SWING DOORS

- In brushed stainless steel
- Weight 0,22kg



# DOUBLE-HINGED

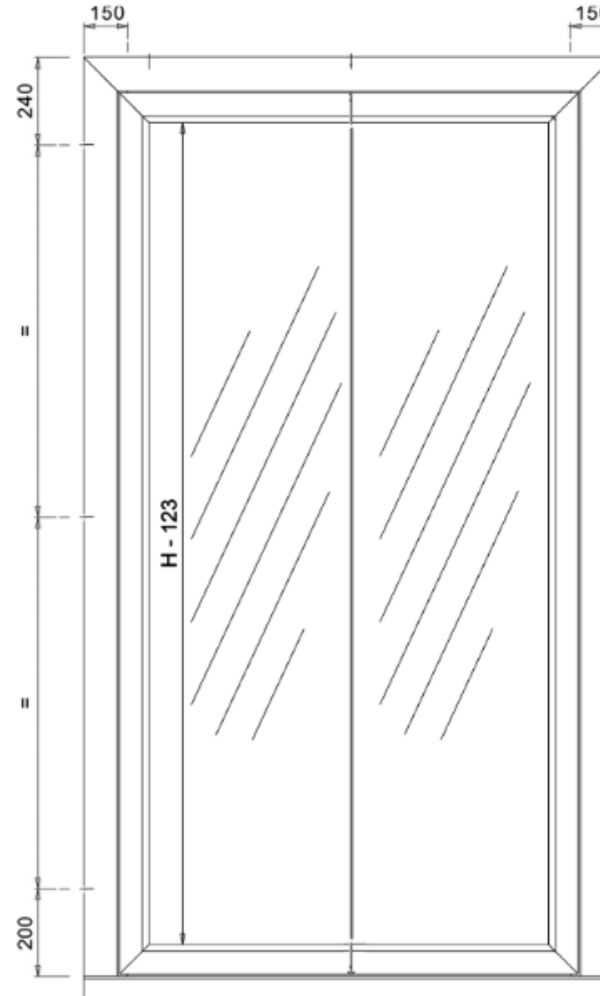
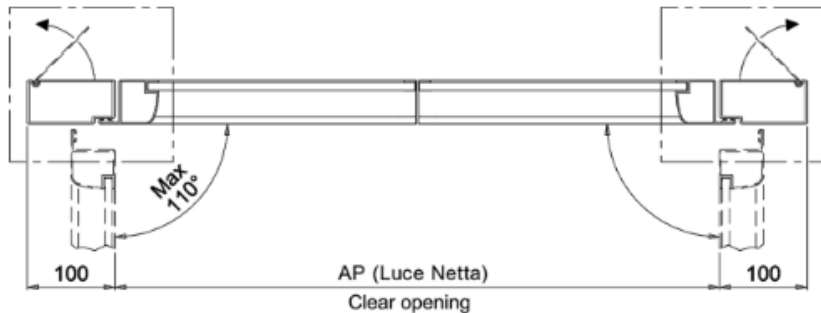
SWING  
DOORS

The new double-hinged swing doors are made of painted aluminium in Vimec 7040 colour. They come with standard door automation which is integrated in the upper crosspiece of the door.

Landing call is always automatic.

The FULL VISION glass is available only in transparent type.

- Locks integrated



# DOOR SAFETY LOCK

SWING  
DOORS

All hinged doors are equipped with a device included in the landing door lock that allows the cabin to move only if the door is completely locked.

The locks ensure that the door is closed when the elevator is not on the landing floor and are also electrically interconnected to prevent the elevator from operating if any of the floor doors are open. In case of forced opening of the doors, the interlocking circuit is interrupted, causing the E10 to stop immediately, preventing the danger of falling into the travel compartment.



All the doors supplied by Vimec and their locking devices have a mechanical strength such that, when a force of 300 N, being evenly distributed over an area of 5 cm<sup>2</sup> in round or square section, is applied, they resist without breakage, permanent deformation and/or elastic deformation greater than 15 mm and they maintain their safety function, during and after such test.

# LOCKS – SINGLE-HINGED

SWING  
DOORS

All swing doors are supplied complete with **electromechanical locks** – the lock not only locks the landing doors mechanically, but also has an electrical contact that prevents the doors from being forced from the inside. Thanks to the «electro-mechanical» redundancy, it is not possible to set the machine in motion with the door open or not correctly closed, in compliance with the lift standard EN 81-20.

## MAIN CHARACTERISTICS

### Homologations

Certificates	TÜV CCC EAC
--------------	-------------------

### General information

Standards	<a href="#">EN 81-20</a> <a href="#">EN 81-50</a>
Enclosure material	Light alloy die-casting
Material of the electrical contacts	Silver
Material of the latching bolt	Brass

### Characteristics

Manual release	Yes
With fail-safe locking system	Yes
Safety functions	Yes

### Mechanical data

Orientation / Alignment	Left/right
ceramic oxide magnets with high coercive field strength	

### Dimensions

Width	165 mm
Height	80 mm

### Ambient conditions

Protection class	<a href="#">IP20</a>
Ambient temperature, minimum	-15 °C
Ambient temperature, maximum	+70 °C

### Ambient conditions - Insulation value

Rated impulse withstand voltage	6 kV
---------------------------------	------

### Electrical data

Thermal test current	10 A
Utilisation category AC-15	230 VAC
Utilisation category AC-15	2 A
Utilisation category DC-13	200 VDC
Utilisation category DC-13	2 A



- Metal enclosure
- Fail-safe locking system
- Manual release by means of triangular key

**vimec**

# LOCKS – DOUBLE-HINGED

SWING  
DOORS

## MAIN CHARACTERISTICS

### Homologation

Certificates	TÜV CCC EAC
--------------	-------------------

### General information

Standards	<a href="#">EN 81-20</a> <a href="#">EN 81-50</a>
Enclosure material	Light alloy die-casting
Material of the electrical contacts	Silver
Material of the latching bolt	Brass

### Characteristics

Manual release	Yes
With fail-safe locking system	Yes
Safety functions	Yes

### Mechanical data

Orientation / Alignment	Left/right
-------------------------	------------

### Dimensions

Width	285 mm
Height	80 mm

### Ambient conditions

Protection class	<a href="#">IP20</a>
Ambient temperature, minimum	-15 °C
Ambient temperature, maximum	+70 °C

### Ambient conditions - Insulation value

Rated impulse withstand voltage	6 kV
---------------------------------	------

### Electrical data

Thermal test current	10 A
Utilisation category AC-15	230 VAC
Utilisation category AC-15	2 A
Utilisation category DC-13	200 VDC
Utilisation category DC-13	2 A




All locks are compliant with EN 81-41 (par. 5.8.5.2) which prescribes that “the electrical safety contact shall not close until the locking elements are engaged by at least 7 mm”.

In addition, heated locks for swing doors are available

*You can find it in the price list as: Gearbox oil heating device for temperatures below -5°C (included)*




ZERTIFIKAT ♦ CERTIFICATE ♦ CERTIFICADO ♦ CERTIFICAT


  
Industrie Service


## EU TYPE-EXAMINATION CERTIFICATE

According to Annex IV, Part A of 2014/33/EU Directive

<b>Certificate No.:</b>	EU-DL 059
<b>Certification Body of the Notified Body:</b>	TÜV SÜD Industrie Service GmbH Westendstr. 199 80686 Munich – Germany Identification No. 0036
<b>Certificate Holder:</b>	
<b>Manufacturer of the Test Sample:</b> <small>(Manufacturer of Serial Production – see Enclosure)</small>	
<b>Product:</b>	Locking device with bolt type locking element and means used to prove the position of a locking element with positive operation for direct locking action of single-winged hinged landing doors
<b>Type:</b>	AV 15
<b>Directive:</b>	2014/33/EU
<b>Reference Standards:</b>	EN 81-20 :2014 EN 81-50:2014 EN 81-1:1998+A3:2009 EN 81-2:1998+A3:2009
<b>Test Report:</b>	EU-DL 059 of 2016-04-08
<b>Outcome:</b>	The safety component conforms to the essential health and safety requirements of the mentioned Directive as long as the requirements of the annex of this certificate are kept.
<b>Date of Issue:</b>	2016-04-26

  
Werner Rau  
Certification Body "lifts and cranes"






ZERTIFIKAT ♦ CERTIFICATE ♦ CERTIFICADO ♦ CERTIFICAT

  
Industrie Service

## EU TYPE-EXAMINATION CERTIFICATE

According to Annex IV, Part A of 2014/33/EU Directive

<b>Certificate No.:</b>	EU-DL 060
<b>Certification Body of the Notified Body:</b>	TÜV SÜD Industrie Service GmbH Westendstr. 199 80686 Munich – Germany Identification No. 0036
<b>Certificate Holder:</b>	
<b>Manufacturer of the Test Sample:</b> <small>(Manufacturer of Serial Production – see Enclosure)</small>	
<b>Product:</b>	Locking device with two bolt type locking elements and means used to prove the position of a locking element with positive operation for direct locking action of double-winged hinged landing doors
<b>Type:</b>	AV 25
<b>Directive:</b>	2014/33/EU
<b>Reference Standards:</b>	EN 81-20 :2014 EN 81-50:2014 EN 81-1:1998+A3:2009 EN 81-2:1998+A3:2009
<b>Test Report:</b>	EU-DL 060 of 2016-04-08
<b>Outcome:</b>	The safety component conforms to the essential health and safety requirements of the mentioned Directive as long as the requirements of the annex of this certificate are kept.
<b>Date of Issue:</b>	2016-04-26

  
Werner Rau  
Certification Body "lifts and cranes"







# DOOR CLOSER



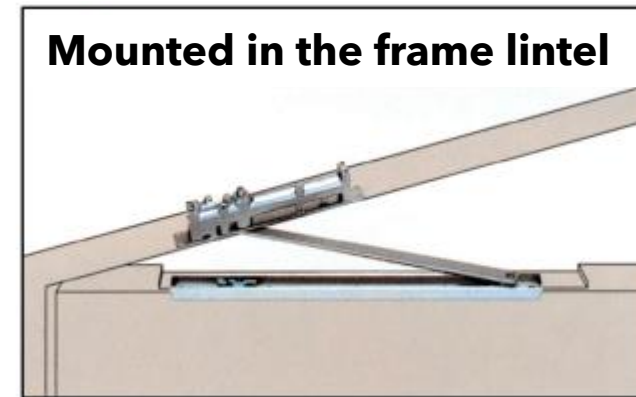
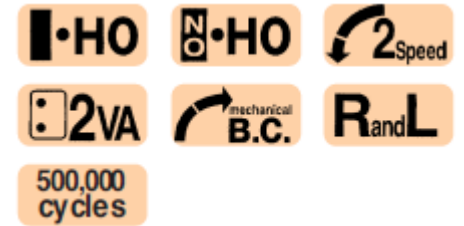
SALES  
MEMO

SWING  
DOORS

All the single-hinged doors are equipped with a flush-mounting door closer (spring-actuated) as **STANDARD**.

## MAIN CHARACTERISTICS

- Die-cast Aluminum R14
- Two closing speed adjustments
- Hydraulic deceleration adjustable on opening against mechanical shocks and wind blows
- Adjustable opening angle
- Adjustable door stop
- Guaranteed minimum for 500,000 operating cycles
- Mounting in the frame lintel
- Ambidextrous



Mounted in the frame lintel

# DOOR AUTOMATION - STANDARD

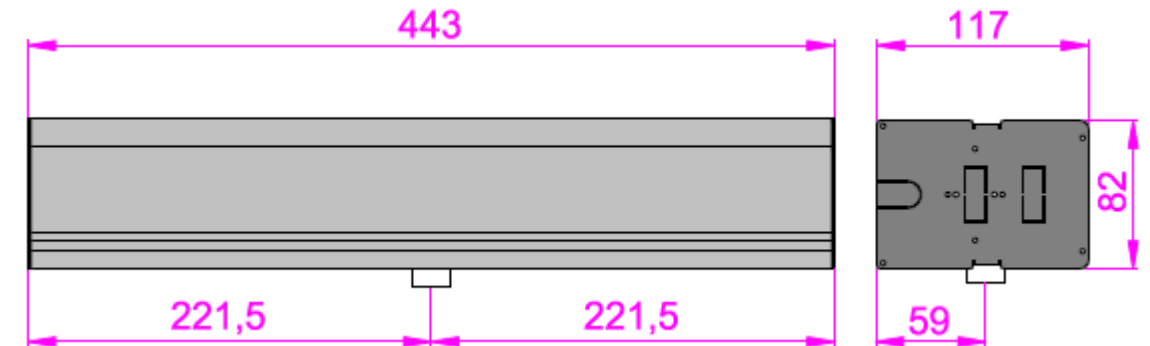


## SWING DOORS

As option, it is possible to install a door automation device for all single-hinged swing doors (panel and panoramic).

### MAIN CHARACTERISTICS

<b>Utilisation</b>	Automatic swing doors for indoor
<b>Certificates</b>	(see next slide)
<b>Dimensions</b>	82 x 117 x 443 mm
<b>Max Load</b>	200 kg x 0.8 m
<b>Operation time</b>	2 - 6 sec
<b>Service class</b>	Continuous operation
<b>Intermittence</b>	S3 = 100%
<b>Internal durability test</b>	5 million cycles
<b>Power supply</b>	100-240 V 50/60 Hz
<b>Power</b>	40 W
<b>Stand-by</b>	8 W
<b>Rated load</b>	20 Nm
<b>Protection class</b>	<a href="#">IP20</a>
<b>Operating temperature</b>	-15°/+50°
<b>Parameters adjustment</b>	Buttons and display
<b>Accessories output</b>	12 Vcc (1 A max)
<b>Firmware update</b>	USB standard



*You can find it in the price list as: Door automation for panel door with - or without view and panoramic aluminium door*

# DOOR AUTOMATION - CERTIFICATES

SWING  
DOORS

  
**PRIMA**  
RICERCA & SVILUPPO

**ATTESTATO DI CONFORMITA'**  
**STATEMENT OF CONFORMITY**

15.018

alle prescrizioni tecniche contenute nelle seguenti Norme e/o specifiche tecniche  
according to the technical requirements of the following Standard and/or technical specifications

- **EN 16005 (2012)**  
che conferiscono presunzione di conformità ai requisiti di protezione stabiliti dalle Direttive CEE n. 2006/42/CE Annex I per le prove applicate.  
which give compliance with the protection requirements stated by EC Directives n. 2006/42/CE Annex I for applied tests.

Identificazione del prodotto: **SW2**  
Product identification :


Marca:   
Brand:

Descrizione prodotto: **Automation for swing doors**  
Product description:

Rif. Rapporti di prova: **MACTR\_141078-0**  
Ref. Test reports:

Costruito da:   
Manufactured by:


Si richiama l'attenzione del Costruttore che il presente Certificato consente di apporre sul prodotto sopradescritto la marcatura di conformità CE e di redigere la Dichiarazione di conformità CE quando sono soddisfatte tutte le altre disposizioni della sopracitata Direttiva e, qualora sia disciplinato da altre direttive relative ad aspetti diversi e che prevedono l'apposizione della stessa marcatura, di tutte queste altre direttive.  
This certificate allows the firm to affix on the above mentioned product the CE marking and to prepare the EC Declaration of conformity when are fulfilled all other requirements of the aforementioned Directive and, where the same product is the subject of other Directives providing for the CE marking, when complies with the relevant requirements of those other Directives.


  
**Certificate P-4113/19 (English Issue)**  
(valid only in association with the terms overleaf)


Holder of the certificate:

Site of Manufacture:

Type Approval Mark: valid until  
2023-12-31

  
Doorset tested EN 16005  
• 4 doors Office and Solidcore  
ID P-4113/19

  
Type tested EN 16005  
• open and close safe  
ID P-4113/19

  
Test di tipo EN 16005  
• apertura e chiusura sicura  
ID P-4113/19

Product: automatic door drive for swing doors

Model:

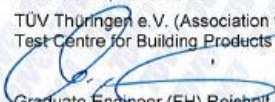
Testing based on the following:


- DIN EN 16005: 2013-01  
Power operated pedestrian doorsets - Safe in use
- DIN EN 60335-1: 2012-10  
Household and similar electrical appliances – Safety  
Part 1: General requirements
- DIN EN 60335-2-103: 2016-05  
Household and similar electrical appliances – Safety  
Part 2-103: Particular requirements for drives for gates, doors and windows
- DIN EN ISO 13849-1/2:2016-06 and 2013-02  
Safety of machinery - Safety-related parts of control systems  
All standards, regulations or guidelines named in the above-mentioned basic documents must also be considered valid.

Result of testing:  
The demands made in the test requirements are fulfilled by the product.

Permission is hereby given to use the Test Mark illustrated above, in accordance with the contractual terms printed overleaf.

Zella-Mehlis, 2019-06-14  
TÜV Thüringen e.V. (Association for Technical Inspection)  
Test Centre for Building Products

  
Graduate Engineer (FH) Reichelt  
Manager of the Test Centre



vimec

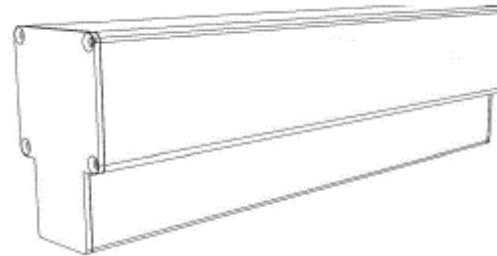
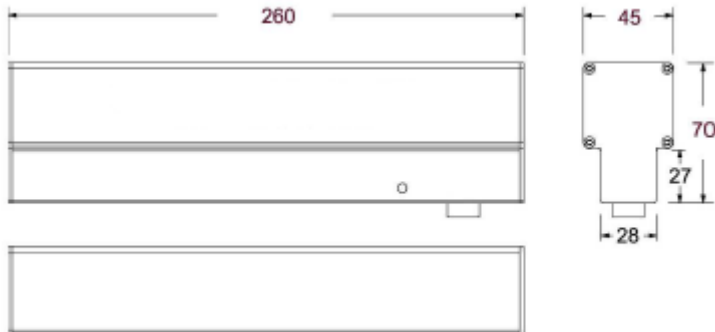
# DOOR AUTOMATION – EI 60/120 <850 MM

SWING  
DOORS

For fire-rated doors [EI 60/120](#) with opening **below 850 mm**, a special automation device is available as option.

The device is always installed in the door's lintel.

MAIN CHARACTERISTICS	
Max Load	Up to 100 kg with max panel width 1100mm
Power Supply	24 V ac / dc
Opening time (90°)	5-10s
Dimensions	260X45 H.70 mm
Colour	Silver
Operating temperature	-20°C+50°C
Protection class	<a href="#">IP30</a>



Compliant to:  
Electromagnetic compatibility  
directive 89/336/CEE;  
Low voltage directive  
73/23/CEE



# DOOR AUTOMATION – EI 60/120 <850 MM

SWING  
DOORS

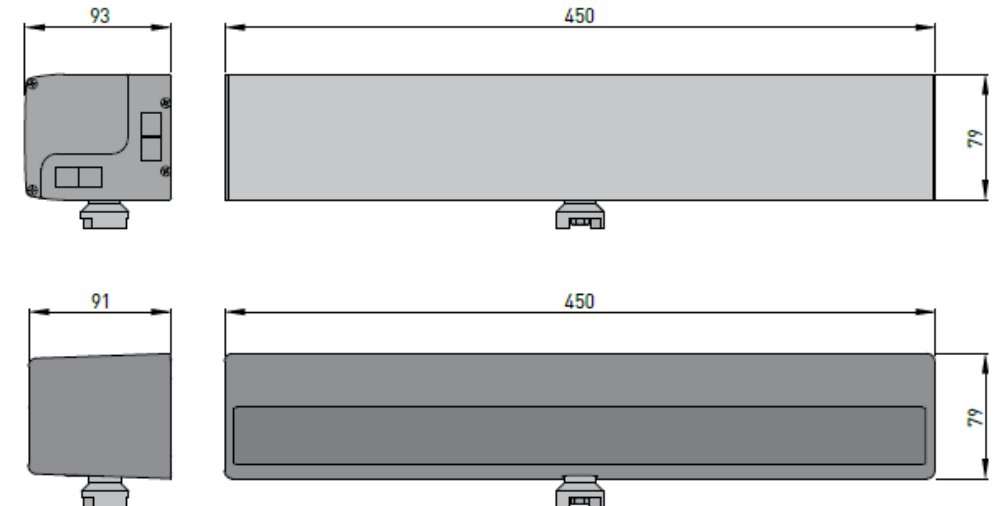
For fire-rated doors [EI 60/120](#) with opening **above 850 mm**, a different automation device is installed as option.

The device is always installed in the door's lintel.

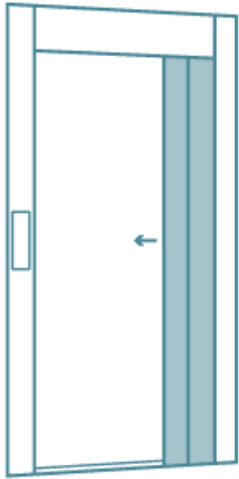
The [EI 60/120](#) doors always come with the fixing holes.

## MAIN CHARACTERISTICS

<b>Max Load</b>	110 Kg
<b>Power supply</b>	24 V DC 230 V AC / 50-60 Hz
<b>Internal durability test</b>	1 million cycles
<b>Opening time (90°)</b>	3÷6 sec
<b>Closing time (90°)</b>	4÷7 s
<b>Dimensions (H x P x L)</b>	79x93x450
<b>Colour</b>	Silver
<b>Operating temperature</b>	-20°C / +55°C (-10°C / +50°C with batteries)
<b>Open door time</b>	0÷30 sec
<b>Weight</b>	3.5 Kg
<b>Protection class</b>	<a href="#">IP30</a>

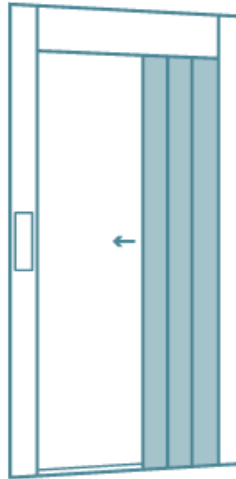


The following types of automatic telescopic doors are available:



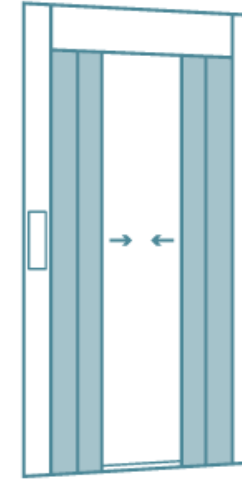
**Telescopic 2 panels**  
**T2 (side opening, right or left)**  
Also available as:

- Fireproof UK
- Fire-rated EN-8158 [EI 120](#)



**Telescopic 3 panels**  
**T3 (side opening, right or left)**  
Also available as:

- Fire-rated EN-8158 [EI 120](#)



**Telescopic 4 panels**  
**C4 (central opening)**

The cab automatic door mandatorily requires that all the landing doors are automatic and of the same type (i.e. if the cabin door is T2, also the landing doors must be T2).

In case of 2 or more stops, an additional mechanical safety block is required (see dedicated [slide](#)).

The telescopic door C4 type can be installed only on the opposite side of the rails.

The maximum depth allowed to install an automatic telescopic door is:

- 1250 mm for all telescopic doors (1400x900 and 1400x1140 platforms are not available with telescopic doors)
- 1170 mm for glass telescopic doors (HL version only)

# TELESCOPIC - TYPES

TELESCOPIC

All automatic doors are compliant to the following:

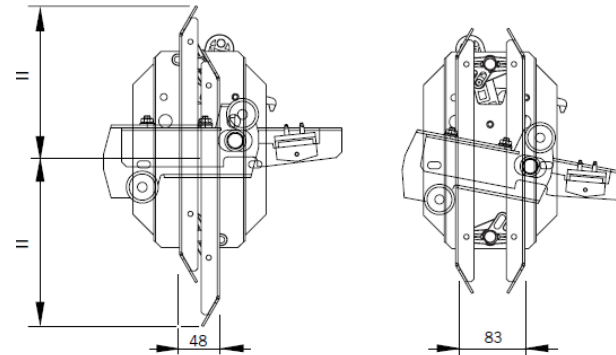
- [EN 81-20](#)
- [EN 81-21](#)
- [EN 81-41](#)
- [EN 81-50](#)
- [EN 81-71](#) Cat. I and II
- Protection class [IP 21](#)

Following versions are available:

- In **Similinox** standard
- In painted standard steel Vimec 7040
- In stainless steel [AISI 441](#) (indoor only)
- In stainless steel [AISI 316](#) (outdoor only)
- In glass with stainless steel frame (**only HL version with maximum depth 1.170 mm**)
- In painted steel special RAL



All telescopic doors have a door locking device that prevents the doors from being forced open by one or more people from inside the cabin.

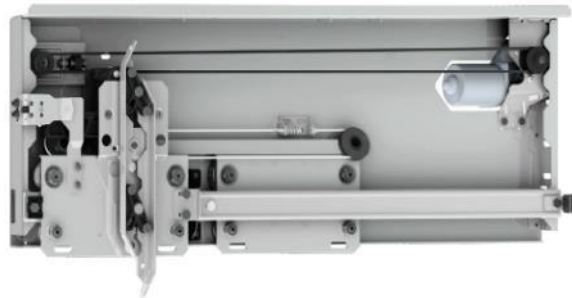




# TELESCOPIC – TECHNICAL DATA

TELESCOPIC

	Cabin doors	Floor doors
Yearly opening cycles (max)	500.000	800.000
Allowed traffic (max)	240 cycles/hour	
Width (mm) min-max	600 -1000	
Height (mm) min-max	2000-2100	2000-2200



ELECTRONIC CARD
Motor type DC brushed with endless screw
Efficiency 56%
Consumption: Standby 2 W / Average per cycle 12 W
Gearless transmission
ELECTRONIC MODULE
Type DC 24
Adjustable parameters with PC / Console
Opening speed up to 0.4 m/s (adjustable)
Closing speed up to 0.35 m/s. Automatically adjustable according to the panel weight
GENERAL DATA
<b>Noise level &lt; 53 dB</b>
<b>Total weight Example: T2, width, free passage 800 mm, free height 2.000 mm with steel panels - 65 kg</b>
Max Moving mass 50 kg
Locking system

# TELESCOPIC – SAFETY BLOCK



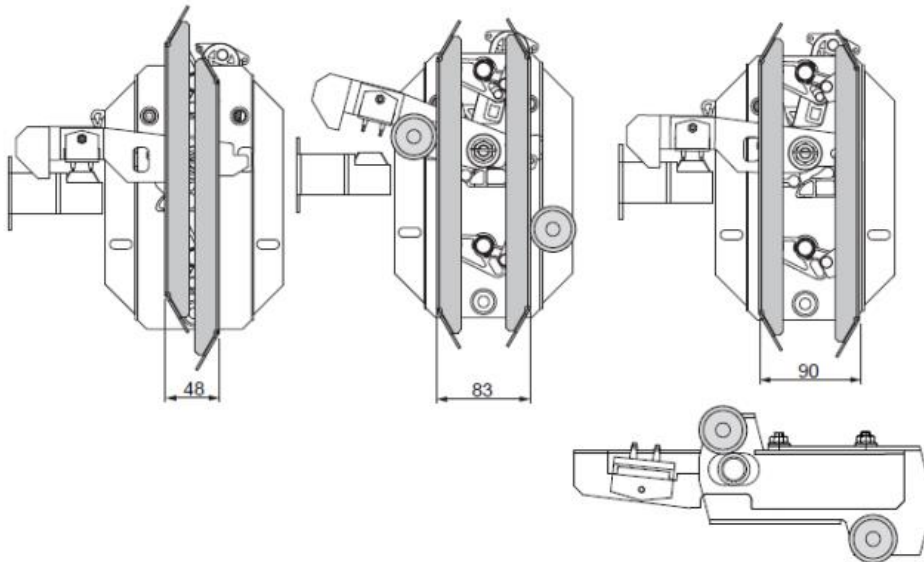
TELESCOPIC



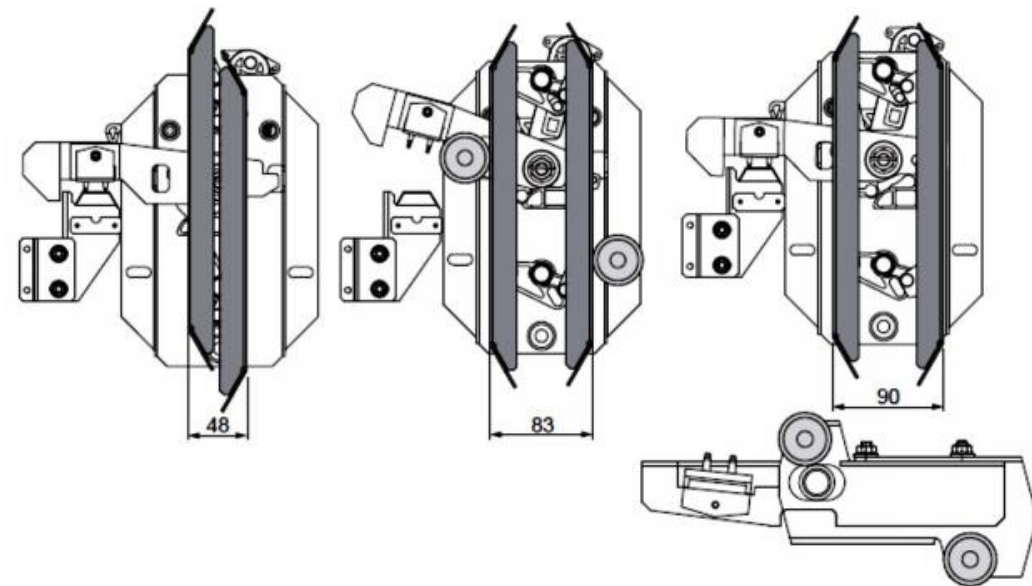
In the case of **elevators with more than 2 stops**, there is a safety device to lock the cabin door panels when the machine has not landed on the floor. In case of double access to the cabin, 2 locking devices will be provided, one for each cabin door. This device ensures against falling into the shaft and shearing effect.

The cabin door can only be unlocked from the outside after unlocking the landing door and releasing a special safety steel cable.

Block for T2 and T3 doors



Block for C4 doors



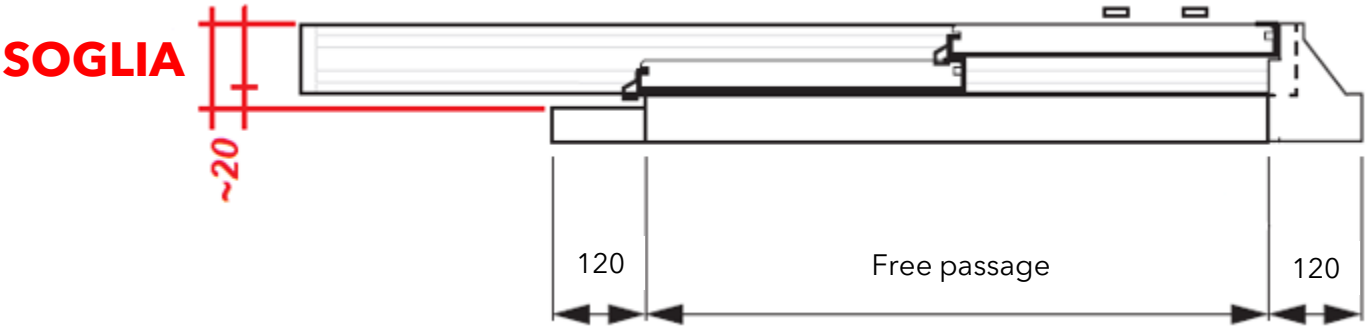
*You can find it in the pricelist as: Mechanical safety block for cabin doors (compulsory for lifts with more than 2 stops)*

# TELESCOPIC – THRESHOLD



The threshold, made of aluminium, is given by the total size of the automatic doors (floor and cabin) + a space of 30 mm standard or 35 mm in case of cabin door block. A further 20 mm (specified in the table below) is added to these dimensions in case of fire doors.

	Cabin door package	Floor door package	THRESHOLD	TOTAL w/o block (incl. 5 mm tolerance)	TOTAL w/block	Notes
T2	70	75	75	180	185	With heated thresholds +20 mm
T2 - E 120 - fireproof	70	75	75+20	200	205	
T2 - EI 120	70	90	90+20	215	220	
T3	90	90	90	215	220	
T3 - EI 120	90	135	135+20	280	285	
C4	70	90	90	195	200	



# INFRARED BARRIER

SALES  
MEMO

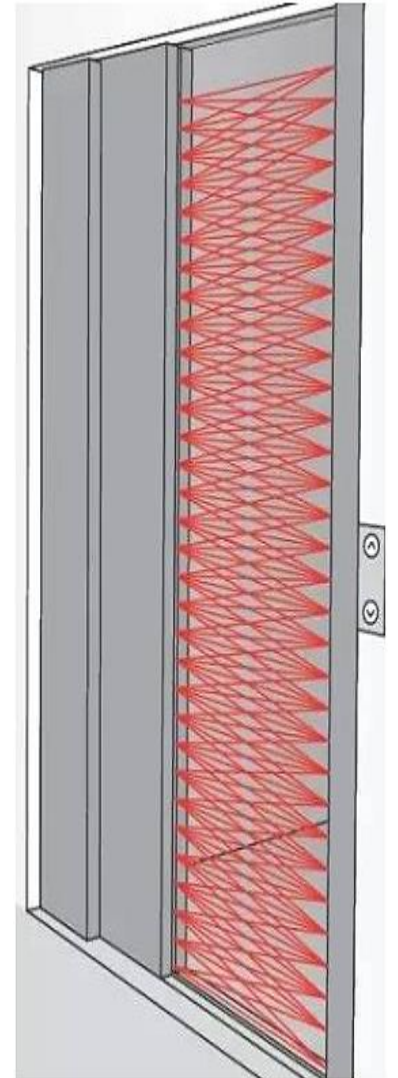
DOORS



As standard on all elevators, a **full-height infrared barrier** is provided capable of detecting the possible presence of objects, even small ones, and stopping the closing movement of the doors and transmitting the re-opening order. The infrared barrier, installed between the landing and cabin doors in case of automatic doors, is certified according to the [EN 81-20](#) lift standard.

<b>Dimensions</b>	10 mm x 23.5 mm x 2000 mm
<b>Diodes</b>	40
<b>Diodes distance</b>	47.5 mm
<b>Detection area height</b>	20 mm - 1872 mm
<b>Detection area width</b>	0 mm - 4000 mm
<b>Rays number</b>	194 (d>400 mm) 118 (d<400 mm)
<b>Response time</b>	69 m/sec
<b>Operating temperature</b>	-20°C - +65°C

EN 81-20



vimec

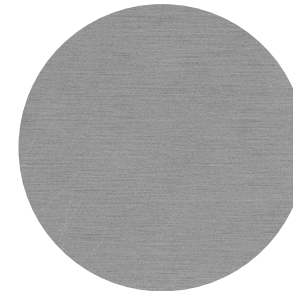
The standard door colours are:

- **VIMEC 7040** for all swing doors
- **Similinox** for all telescopic doors
- **RAL 7038** for all fire-rated/fireproof swing doors

## Standard colours



7040 GREY



Similinox

Special RALs are available on request.

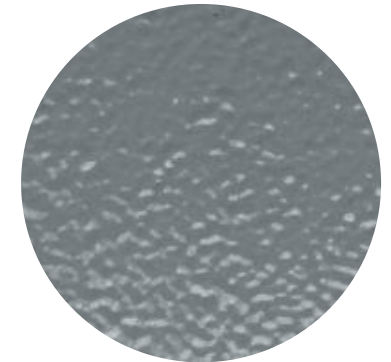
It is not possible to have cabin doors and floor doors with different colours.

Door frames are supplied in the same colour as the doors.

All painted **floor doors**, both indoor and outdoor, have an **orange-peeled semi-glossed finish** (Gloss 70).

Smooth finish is standard for all Similinox telescopic doors and is also available for aluminum swing doors and other telescopic floor doors - anyway, this finish is not recommended since it is easily scratchable.

Additional treatments are available on request as specialty.



Orange-peel

See also summary [Finishes](#).

# FLOOR PUSH-BUTTON

The standard floor push-button is made of thermoplastic material with 3 mm thickness.

The single button is squared, 60x60 (active part 50x50) backlit in green colour (elevator is free) or red (elevator is occupied).

The i-Button contact is always installed and visible even if not activated.

Landing call is always «single-touch» type.

The floor push-button is the same as the cab one ([cab push-button](#)).

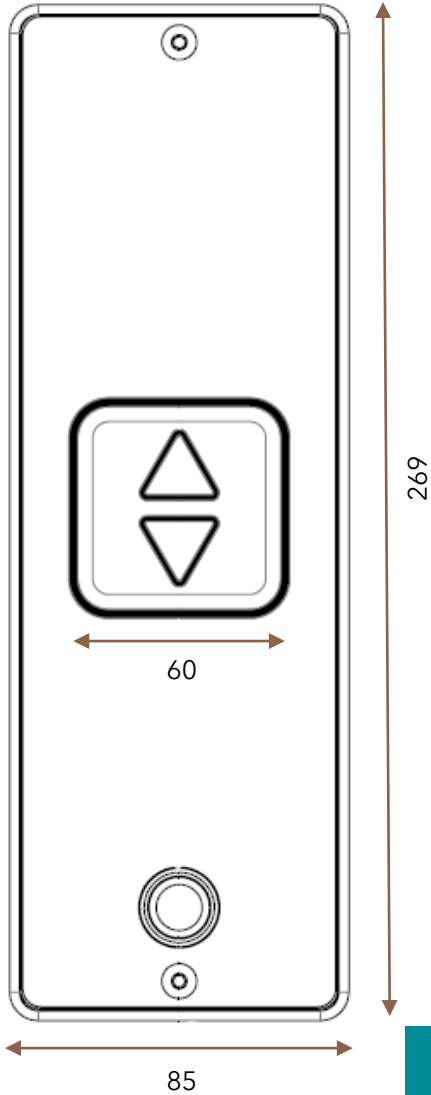
The **LCD display** is available as **option** and has the following characteristics:

Visible area	50 x 54 mm
Display	Shockproof and scratchproof transparent polycarbonate
Colours	White lighting on a blue background
Power supply	12/24Vdc +/- 10%

EN 81-70



DOORS



# FLOOR PUSH-BUTTON – COLLECTIVE CALL

DOORS

Collective call functionality is available as option:

The floor selections in the cabin are instantly recorded and executed in the order in which the buttons are pressed - for example, if I am on floor 1 and press buttons 0, 2, 3 in this order, the lift will first descend to floor 0 and then ascend to floor 2 and then continue to floor 3.

Floor calls, as for the cabin, are instantly recorded and executed in the order in which the buttons are pressed, regardless of which floor the users are on. In other words, the machine serves whoever presses the call button first.

*You can find it in the price list as: Collective call*



# METAL STRUCTURE

# STRUCTURE - OVERVIEW

Vimec metal structure acts as travel shaft **both indoor and outdoor installations.**

The structure is made of 4 pillars connected to each other by crossbeams forming in turn intermediate rings with fixed pitch and acts as a cage for the lift, thus protecting the cabin in the ascent and descent trajectory.

Each structure is designed to be fixed in the pit and/or in the headroom and/or laterally to one or more walls of the building.

The materials used are:

- Steel for the pillars and crossbeams of the structure
- Steel and aluminum for the claddings' frames
- Glass for the claddings

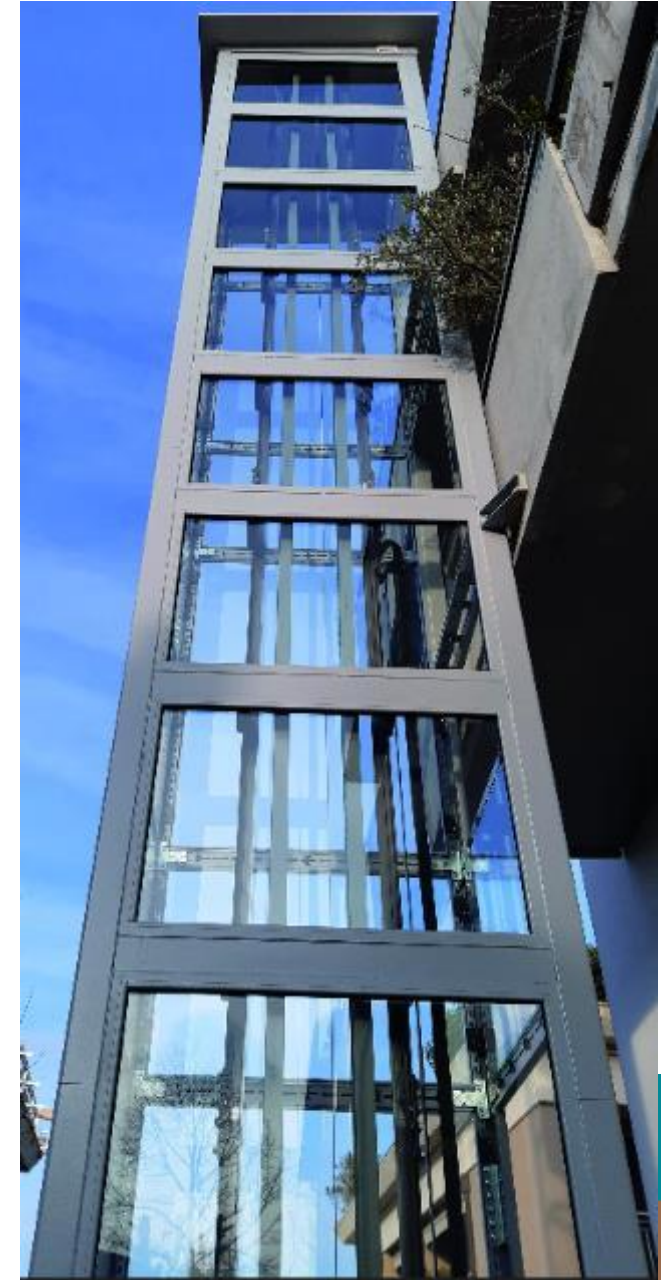
The rail side is provided with painted blind panels as standard and with glass panels upon request.

It is possible to choose "mixed" claddings in the same structure (i.e., combination of transparent and smoked glass).

It is also possible to supply the structure without claddings - these will then be chosen at will by the customer who must give Vimec's Technical Dept all technical details about the cladding's materials. This is necessary to obtain the CE certificate.



Vimec produces each structure according to the design of a qualified and registered engineer and in compliance with EN 1090, the European standard that specifies the requirements to be met by companies that manufacture and design structural steel components.



# STRUCTURE – CLADDING TYPES

← Transparent glass



Mirrored glass ([stopsol](#))



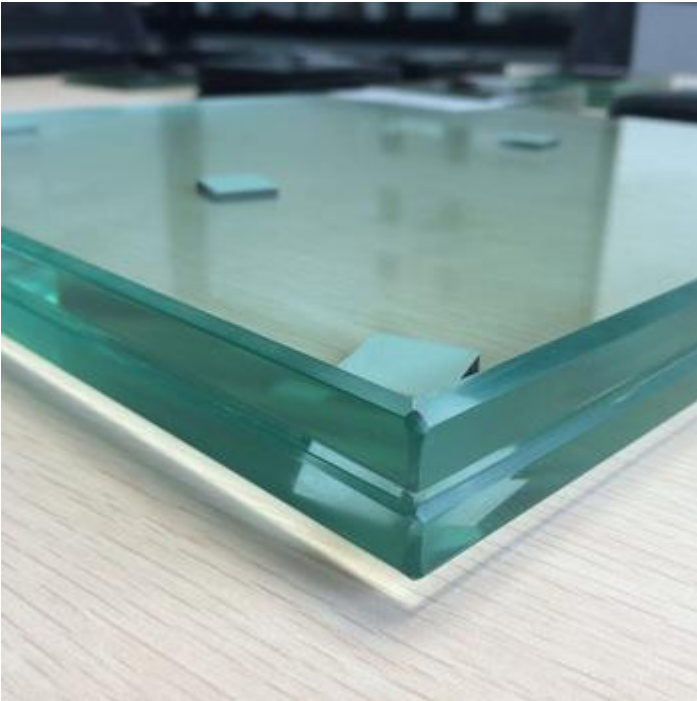
Smoke-grey glass

STRUCTURE

Steel



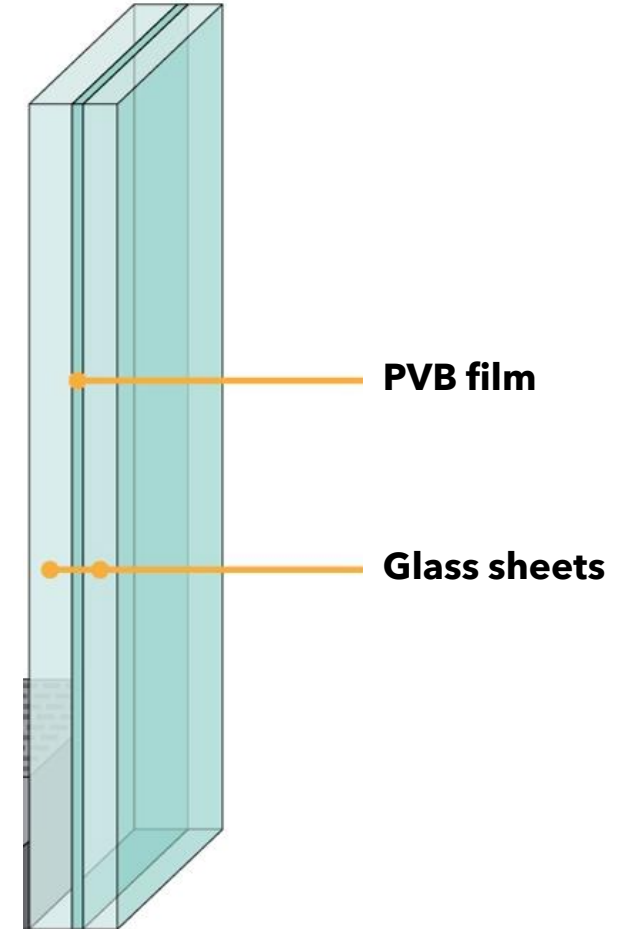
vimec



Glass claddings are available in the following versions:

- Transparent
- Smoked
- Smoke-grey
- Milk-white
- Mirrored ([Stopsol](#))

The glass used for claddings, as well as for the doors, glass insert and protections, are stratified with a total thickness of **5+5+0,76 mm.**



All glass surfaces have a mechanical strength such that, when a force of 300 N, being evenly distributed over an area of 5 cm<sup>2</sup> in round or square section, is applied, they resist without breakage, permanent deformation and/or elastic deformation greater than 15 mm.



# CLADDING – GLASS CERTIFICATE

CLADDING



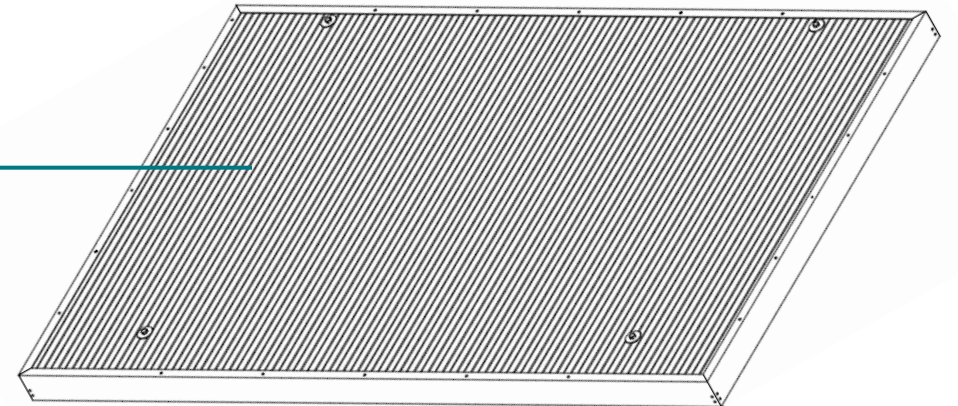
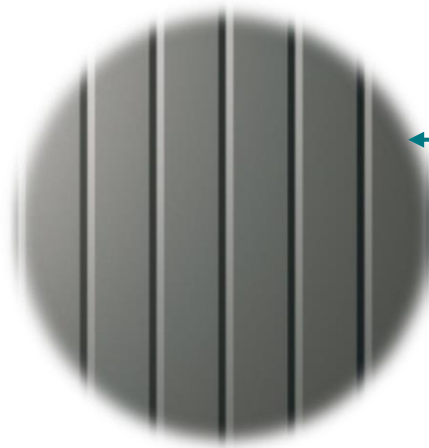
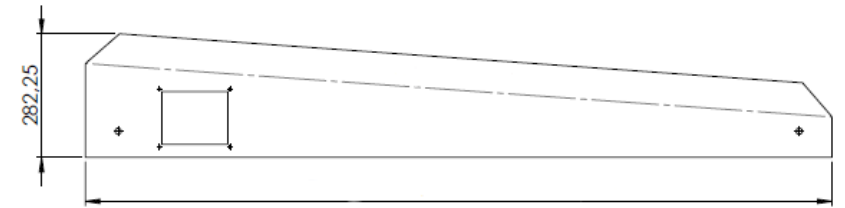
<b>LAMINATED SAFETY GLASS</b> <b>55.1</b> thickness 10.4 mm - weight 26 kg/m <sup>2</sup>	
<b>CE</b>	
It is produced according to <b>UNI EN 14449</b> with level 3 Intended to be used in buldings and construction works	
<b>CARATTERISTICHE - CHARACTERISTICS</b>	
<i>For applications correlated to security in the event of fire:</i> Fire resistance EN 13501-2 EN 357 Reaction to fire EN 13501-1 External fire EN 13501-5	NPD NPD NPD
<i>Safety use mechanical resistance</i> Resistance to sudden temperature changes and temperature differentials Resistance to wind, snow, permanent and imposed load load (thickness)	30 °K 10.4 mm
<i>For other uses susceptible to present a risk of "safe use" subject to the corresponding standards:</i> Impact resistance of the pendulum Body EN 12600 Burglar resistance EN 356 Bullet resistance EN 1063	2(B)2 NPD NPD
<i>For other uses related to the reduction of noise:</i> <i>Airborne sound insulation estimated by direct evaluation and balancing with other tests of similar compositions made in accordance with EN 717 or EN 140 derived from UNI 12758</i> RW = weighted sound reduction index C = period of adjustment of the spectrum of pink noise, high-pitched sounds Ctr = period of adjustment of the noise spectrum normalized traffic; bass	35 +/- 1 dB -1 dB -3 dB
<i>for uses related to energy saving:</i> <i>Ug thermal properties according to EN 673 (emissivity en 0.89)</i> <i>luminous characteristics according to EN 410 tolerance +/- 3 point</i>  light transmission External light reflection Internal light reflection  <i>Energy Properties according to EN 410 tolerance +/- 3 point</i> Direct Energy Transmission Energy absorption glazing Solar factor = g = SHGC Ultraviolet transmission	5.6 W/(m <sup>2</sup> K)  87 % 8 % 8 %  68 % 26 % 74 % < 1 %
NPD: This feature is not declared	
12/02/2020	

# STRUCTURE – OUTDOOR ROOF

For outdoor installations, it is mandatory to install a steel **roof**, available also in stainless steel (upon request).

The roof consists of a load-bearing structure and an insulated roof composed as follows:

- 2 galvanised S235JR steel support laminated panels, 0.4 mm thick and pre-painted with slatted surface
- 1 layer placed between the two panels in rigid polyurethane foam (PUR) with high insulating power with the following characteristics:
  - Thickness 35 mm
  - Reference initial thermal conductivity: 0.020 W/mK
  - Total density 40 kg/mc  $\pm 10\%$ .
  - Compressive strength: >100 kPa
  - Dimensional stability -25/+80° C <1%
  - 100 mm steel sheet profiles



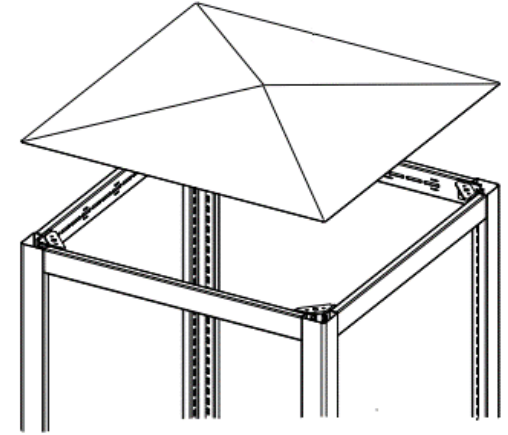
# STRUCTURE – OTHER COVERINGS

STRUCTURE

The following are available as option:

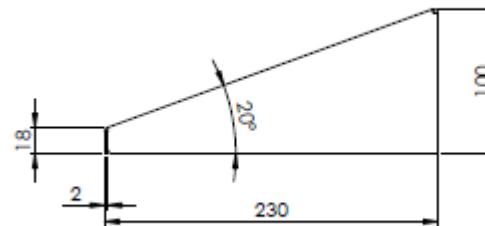
- **Indoor structure roof (OPTION)**

Made of 2 mm thick steel sheet with diamond pattern in the same finishes as the structure.



- **Canopy for door, outdoor only (OPTION)**

Made of 2 mm thick steel sheet with the following dimensions:



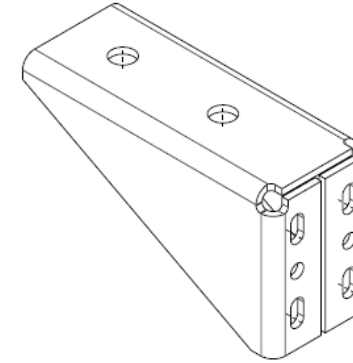
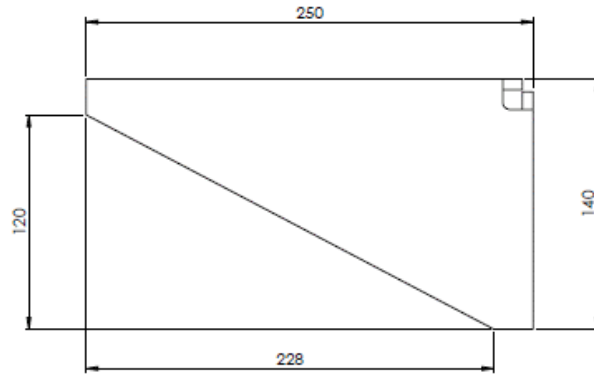


# STRUCTURE – BRACKETS AND SUPPORTS

STRUCTURE

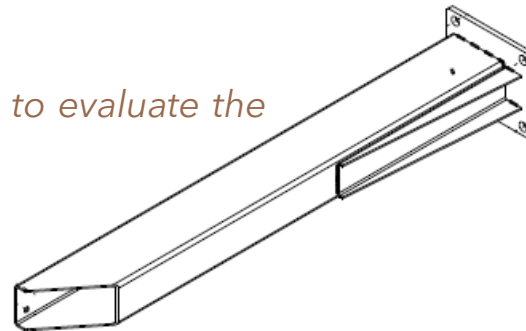


All structures are supplied with standard wall brackets made of S235JR steel with the same finishes as the structure (same colour and treatment). Normally, one attachment is positioned every 3 metres in height and on both sides of the structure.



In the case of structures where no side rests on the wall, it is possible to install brackets of variable length as shown in the image.

*It will be the responsibility of the staff taking care of the installation to evaluate the most suitable type of support for each installation.*



In case it is not possible to fix the structure in the headroom ("free headroom", last floor is free), steel **crossbars** are installed - these are installed inside each cladding and provide further stiffening to the structure, as there are no other brackets or supports mounted in the headroom.

*You can find it in the price list as: Extra price for "free" headroom*

It is also possible to "clad" one or more sides of an installation with **protections**. This is a special solution in the case of one or more free sides in the elevator shaft.



Protections are installed in indoor only to ensure against shearing effect while the machine is in operation.

*You can find it in the price list as: Aluminium protection shaft*



# STRUCTURE – SURFACE TREATMENTS

All structures are supplied as standard in **Vimec 7040** colour and in **orange-peeled** finish, which covers all elements of the structure, including brackets, roofs, frames and doors.

The elements just listed (**doors excluded**) are also available in a smooth finish NOT RECOMMENDED because they are easily scratchable (especially in outdoor installations).

See also [Finishes](#) summary table.

In accordance with the European standard UNI EN ISO 12944-1:2018 "Paints and varnishes - Corrosion protection of steel structures by protective paint systems", Vimec provides for **3 different types of treatment** depending on whether it is an internal or external structure and on the environmental conditions of the place of installation.

Specifically, the treatment to be carried out is evaluated according to the UNI EN ISO 12944 standard, which classifies the environments in different categories according to their corrosivity class:

Corrosivity cat.	Examples of typical environments in a temperate climate	
	Outdoor environments	Indoor environments
<b>C1</b> Very Low	-	Heated buildings with clean atmosphere, i.e. offices, shops, schools, hotels etc.
<b>C2</b> Low	Environments with low level of pollution, mostly rural areas	Unheated buildings where condensation may occur, i.e. Depots, sport halls etc.
<b>C3</b> Medium	Urban and industrial environments, moderate sulphur dioxide pollution. Coastal areas with low salinity	Production rooms with high humidity and some air pollution, i.e. food processing plants, laundries, breweries, dairies etc.
<b>C4</b> High	Industrial and coastal areas with moderate salinity	Chemical plants, swimming pools, coastal ship and boat yards
<b>C5</b> Very High	Industrial areas with high humidity and aggressive atmosphere, coastal and offshore areas with high salinity	Buildings or areas with almost permanent condensation and high pollution

## 1. Standard treatment for INDOOR INSTALLATION - Powder painting

For indoor structures, normally subject to less corrosion, installation in category **C1** environments is considered. The treatment in this case includes polyester **powder painting** - it is a protective surface treatment that guarantees eco-compatibility and excellent aesthetic finish for all parts of the structure installed indoors. After application of the paint, the pieces are baked in an oven at about 160°/180° for about 20 minutes.

### Painting's characteristics:

Thickness : 150-200 micron with orange-peel finish, 60-100 micron with smooth finish

Resistance in saline mist: max penetration max 2 mm after 300 hours

Adhesion test: compliant to ISO 2409, no detachment

Humidistat: 500 hours

## 2. Standard treatment for OUTDOOR INSTALLATION - Cataphoresis + Powder painting

For all outdoor structures, on the other hand, Vimec has chosen as standard to consider installation in highly corrosive **C4** environments and to subject all the structures to a preliminary **cataphoresis** process (uniform deposit of black epoxy paint on the surface of the element), in addition to powder coating. Cataphoresis is the deposit of a black film of paint capable of giving the metal elements considerable resistance to corrosion, protecting them from atmospheric agents and allowing better adhesion of powder coatings. The application technique is carried out by immersion in a tank plus electrodeposition.

### Cataphoretic film characteristics:

Thickness: 18-24 micron

Resistance in saline mist : ASTM b 117 = 500 hours average

Direct and reverse impact resistance compliant to ASTM d 2794

UV resistance: discrete (chalking)

Pencil hardness 5H (ASTM d 3363)

Adhesion: 98/100% to grid (grade 0)

Acid, alkali and hydrocarbon resistance: good

### 3. Treatment for OUTDOOR INSTALLATION in AGGRESSIVE ENVIRONMENTS - Cataphoresis + Primer + Powder painting


In case of installation in particularly aggressive outdoor areas, Vimec adds a third type of surface treatment suitable for **C5** category areas - the new treatment also includes the application of a specific varnish **primer** in addition to cataphoresis and standard powder coating.

The adoption of the 3 types of surface treatments just described, as well as improving the quality of the structures in terms of corrosion resistance, is aimed at certifying their **durability up to 10 years** after installation. Durability means, in compliance with the UNI EN ISO 12944 standard already mentioned, the period, expressed in years, that goes from the installation of the system up to the first total repainting intervention, provided that the system is subjected to regular maintenance as indicated in the following table:

Vimec installations	Treatment	Environment class	Maintenance frequency for durability up to 10 years
Indoor	Powder painting	C1	Every 5 years
Outdoor standard	Cataphoresis + Powder painting	C4	Every 2 years
Outdoor aggressive	Cataphoresis + Primer + Powder painting	C5	Every 2 years



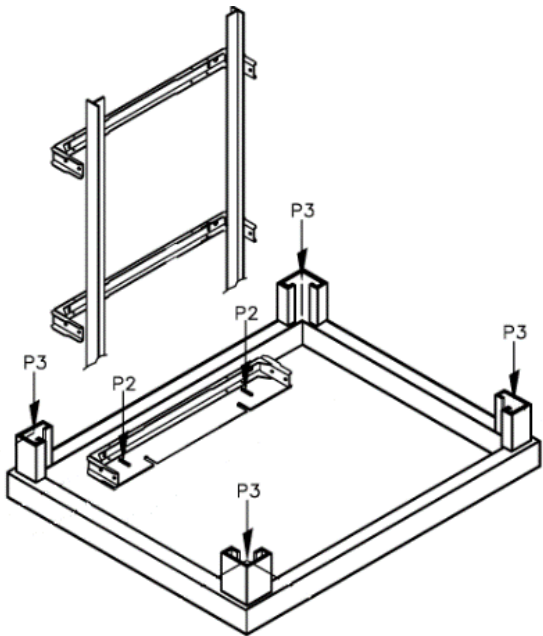
Before installing a metal structure, it is necessary to analyse the requirements of each project in terms of foundation and load distribution. The foundation is a monolithic reinforced concrete body, usually 300 or 400 mm thick, whose function is to support the weight of the metal structure and discharge it to the ground. The precise evaluation of the thickness or of a different type of foundation (i.e., addition of reinforcement) is entrusted to the professional in charge of the project.



Vimec recommends that pit floor strength has to be increased to at least **5000 N/m<sup>2</sup>** where there is an accessible space beneath the pit (i.e. basement), in compliance with lift standard [UNI EN 81-20](#). (par. 5.2.5.4).

The following chart contains some indications about base loads with different platforms and considering the following features:

- All sides with glass cladding
- Max load 400 kg
- Travel 8290 mm
- Pit 140 mm
- 1 cabin door



Platform (L x P)	Structure (L x P)	Load acting on machine group (daN)	Load acting on the rails (daN) P2	Load acting under each pillar (daN) P3
900 x 800	1400 x 1300	165	758	840
900 x 900	1400 x 1400		768	871
1000 x 900	1500 x 1400		765	871
1000 x 1000	1500 x 1500		787	932
900 x 1400	1400 x 1900		821	1025
1100 x 1400	1600 x 1900		843	1086
1250 x 800	1750 x 1300		784	948
1250 x 1000	1750 x 1500		809	1009
1400 x 900	1900 x 1400		809	1025
1400 x 1140	1900 x 1640		841	1098

# STRUCTURE – EUROCODE 3 MODULE

STRUCTURE

## PRELIMINARY INFORMATION FORM ACCORDING TO EC

THIS FORM MUST BE COMPLETED, SIGNED AND RETURNED TO VIMEC

Vimec's job no. \_\_\_\_\_

### SITE INFORMATION

Customers's name : \_\_\_\_\_

Location: \_\_\_\_\_

- METRES ABOVE SEE LEVEL \_\_\_\_\_ m

#### - STEEL FRAMED STRUCTURE POSITION

- ☐ Inside the building  
☐ Outside the building

#### - TERRAIN CATEGORY (see EN 1991-1-4:2005 Annex A):

- ☐ Terrain category 0  
☐ Terrain category I  
☐ Terrain category II  
☐ Terrain category III  
☐ Terrain category IV

Note: terrain category IV will be assumed, if the customer doesn't choose an option.

#### - WIND LOAD (see EN 1991-1-4:2005 Table 5.1)

- ☐ Fundamental value of the basic wind velocity  $v_{b,0}$  \_\_\_\_\_ m/s  
☐ Peak velocity pressure  $q_p$  \_\_\_\_\_ daN/m<sup>2</sup>

Note:  $v_{b,0}$  (or  $q_p$ ) will be assumed by the designer, if the customer doesn't choose an option.

#### - EXPOSURE COEFFICIENT $C_e$ (see EN 1991-1-3:2003 Table 5.1)

- ☐ 0.8  
☐ 1  
☐ 1.2

Note:  $C_e$  will be assumed =1, if the customer doesn't choose an option.

#### - SNOW LOAD (see EN 1991-1-3:2003)

- ☐ Climatic Regions \_\_\_\_\_ and zone number (Z) \_\_\_\_\_ (see Annex C)  
☐ Snow load on the ground ( $s_k$ ) \_\_\_\_\_ daN/m<sup>2</sup> (see par. 5.2)

Note:  $s_k$  will be assumed by the designer, if the customer doesn't choose an option.

#### CUSTOMER SERVICE TECHNICIAN

Name : \_\_\_\_\_

telephone: \_\_\_\_\_ mail address \_\_\_\_\_

#### CALCULATION REPORT

- ☐ PDF calculation report ☐ paper calculation report

mail address \_\_\_\_\_ street \_\_\_\_\_ n° of copies \_\_\_\_\_

DATA DI EMISSIONE: \_\_\_\_\_ FIRMA: \_\_\_\_\_

It is possible to request the calculation report certifying the conformity of the structure to EUROCODE 3 (1993) using a dedicated form. The calculation report, drawn up internally by Vimec's Technical Dept, requires the following information:

- CAT. 0 Sea or coastal area exposed to the open sea
- CAT. I Lakes or flat and horizontal area with negligible vegetation and without obstacles
- CAT. II Area with low vegetation such as grass and isolated obstacles (trees, buildings) with separations of at least 20 obstacle heights
- CAT. III Area with regular cover of vegetation or buildings or with isolated obstacles with separations of maximum 20 obstacle heights (such as villages, suburban terrain, permanent forest)
- CAT. IV Area in which at least 15% of the surface is covered with buildings and their average height exceeds 15m (this category is considered in case of missing information)

Average wind load in the area, measured according to EN 1991-1-4:2005

Exposure coefficient

- 0,8 Flat topography
- 1 Normal topography
- 1,2 Sheltered topography

Snow load according to EN 1991-1-3:2003

- Climatic region (i.e., alpine, Mediterranean etc.) and zone number as in the standard
- Snow load on the ground

*You can find it in the price list as: Calculations and anti-seismic report according Eurocode 3*



TRACTION

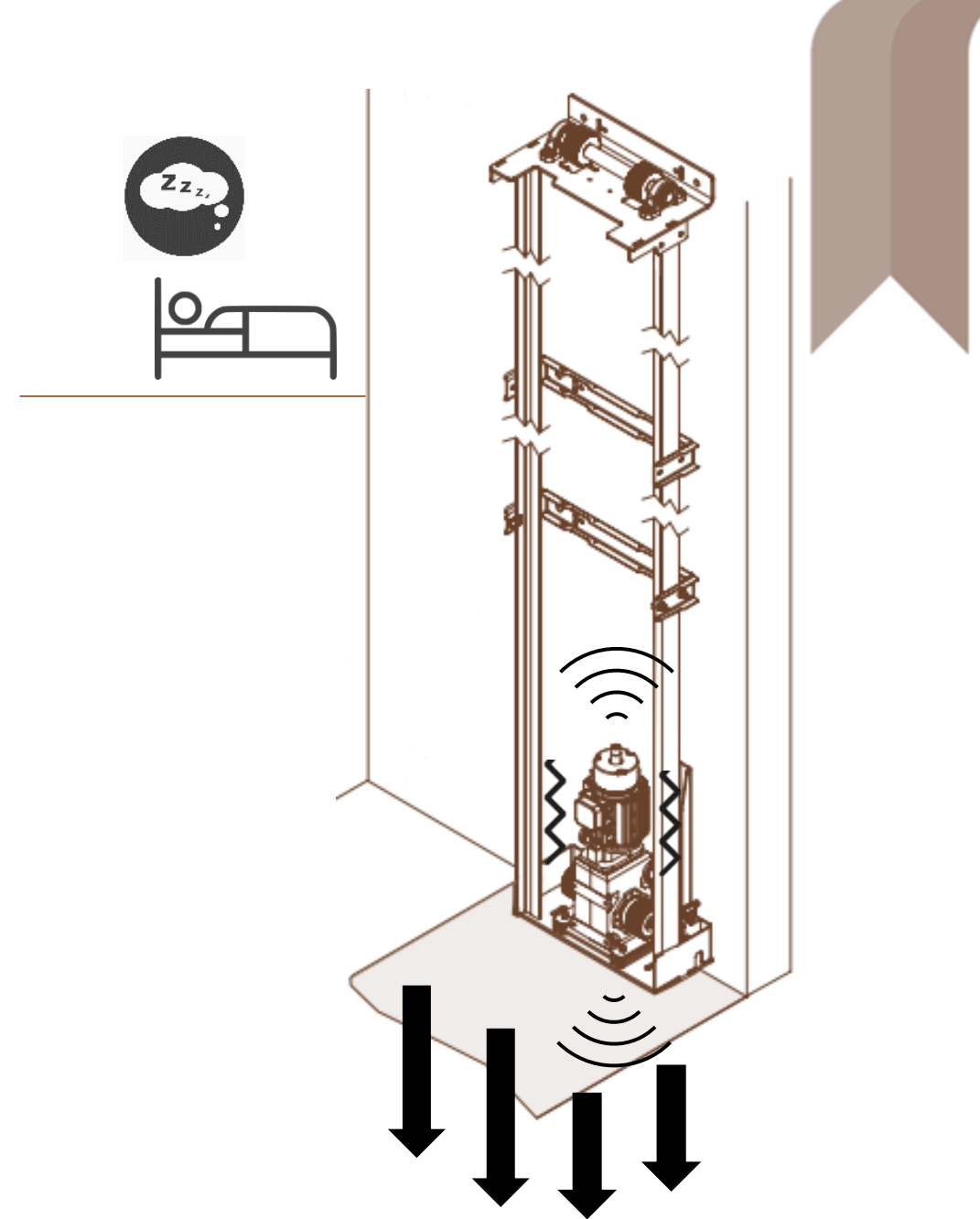
# TRACTION – MOTOR SALES MEMO

**Motor placed at the bottom,  
Vimec exclusive technology**

- ✓ Vibrations discharged to the ground
  - ✓ Low noise level
  - ✓ Ease of installation

**No counterweight**

- ✓ Optimized space management
  - ✓ Ease of installation



# TRACTION - GUIDES

The guides are made with T70x65x9 profiles machined and calibrated: the same normally used for lifts.

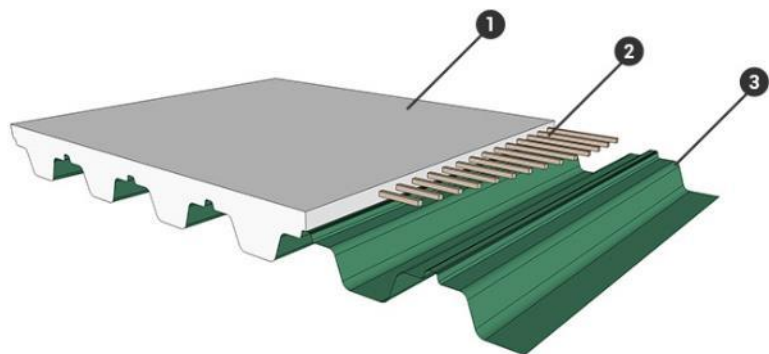
They are supplied in modular sections with a maximum length of 2.5 metres in order to facilitate movement on site.

The fixing of the guides to the wall or to the metal structure is made by means of tie brackets and requires a maximum pitch of 1300 mm.

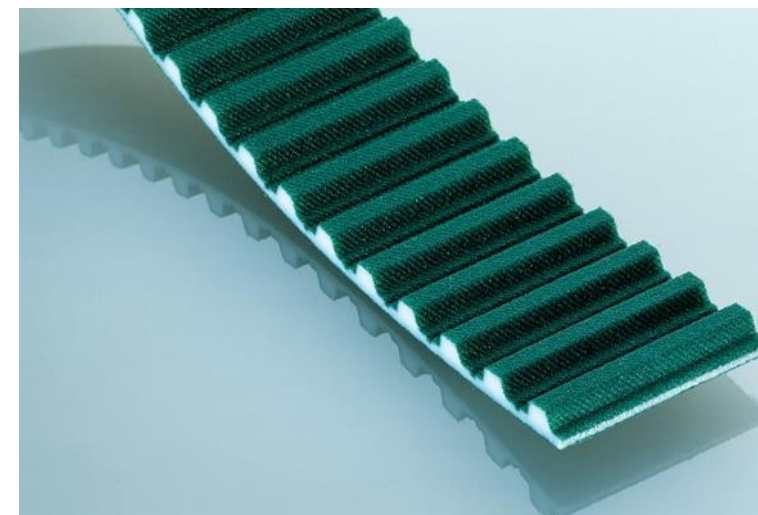
The treatments of the guides follow the same logic as for the metal structure (see dedicated [slide](#)).

The distance between the guides is always 700 mm, regardless of the cabin.

The traction belts have 22 teeth engaged in each pulley and are made of 36 polyurethane resin threads (transparent on the back and toothed on the other side).



MAIN CHARACTERISTICS	
Width	60 mm
Thickness	5,6 mm
Type	TPU
Hardness	92 Sh.A
Operating temperature	-5°/+70°
Eligible workload	16743 N
Breaking load	>/= 61250 N
Coating	Poliammide (T 12)



E10 uses **MRL** (Machine Room Less) technology and a **low consumption electric motor**. The MRL elevators differ from the traditional ones for the total absence of machine room, usually placed in the headroom. The elevator is in fact located entirely in the shaft. In addition, the engine of E10, is located **at the bottom** of the shaft making it possible to discharge all the vibrations on the ground and ensuring a very low noise level. All this for a minimum technical encumbrance (machine pack) of **310 mm**.

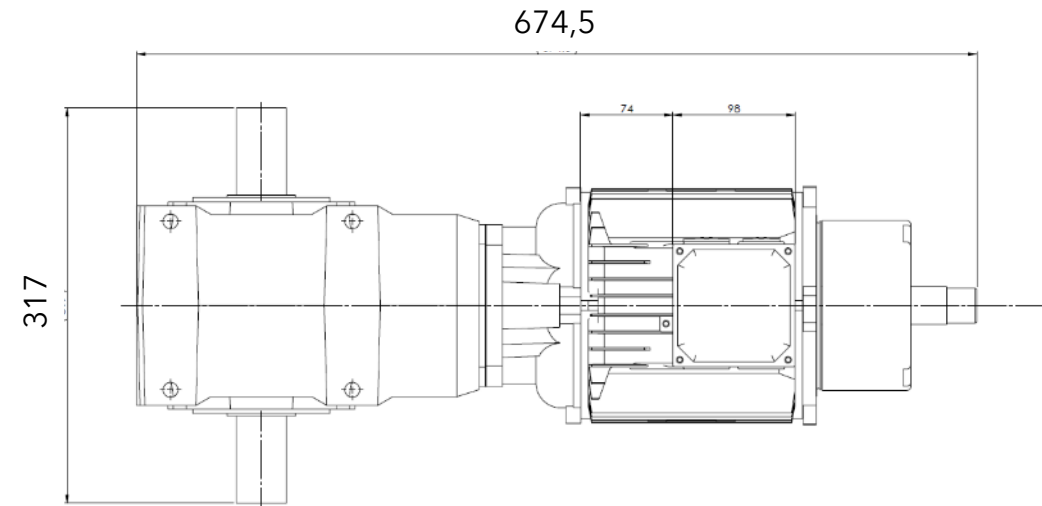
## MAIN CHARACTERISTICS:

- **Type:** Three-phase asynchronous electric with gearbox
- **Motor power:** 1,5 kW / 3 kW (HL and LT versions)
- **Line voltage:** 230V-mono AC - 50Hz
- **Power supply:** 230V  $\pm$  5%
- **Auxiliary power supply:** 24V DC



**Full load consumption going upward 2kW**

This technical solution is able to guarantee the best possible combination of space, noise, motor efficiency and cost.



## DICHIARAZIONE DI CONFORMITÀ DECLARATION OF CONFORMITY

La Ditta / *The Company:*

dichiara sotto la propria responsabilità che i motori elettrici asincroni trifase  
*declares under its own responsibility that the three-phase induction motors*

serie / *series :*

ed i motori asincroni trifase autofrenanti  
*and the three-phase induction brakemotors*

serie / *series:*

soddisfano i requisiti delle Direttive:  
*are in conformity with the requirements of the Directives:*

**Directive 2006/95/EC**  
**Directive 2004/108/EC**

La conformità ai requisiti delle Direttive è comprovato dal rispetto delle seguenti Norme:  
*The conformity with the of Directives requirements is proved by compliance with the following Standards:*

**EN 60034-1:2010**

**EN 61000-6-2: 2005**

**EN 61000-6-4: 2007**

I motori sono destinati ad essere montati nelle macchine. La messa in servizio è vietata finché non sia stato verificato che l'installazione finale non soddisfa i requisiti della Direttiva Macchine 2006/42/CE.  
*The motors are intended for installation in machines. Commissioning is prohibited until such time as the end product complies with the provisions of the Machine Directive 2006/42/EC.*

Dovranno essere osservate le istruzioni di sicurezza riportate nella documentazione di prodotto e le prescrizioni della Norma EN 60204-1: 2006.  
*The safety instructions of the product documentation and EN 60204-1:2006 requirements must be met.*

Firma/ *Signature* 

In case a noise level certification is required, Vimec can issue a self-certification with the following values in dB registered with a phonometer, at a speed of 0.15 m/s:

**1) On board with 2 persons**

Ascent phase: **53.2 – 55.6 Decibel**

Descent phase: **52.4-54.8 Decibel**

**1) Automatic door opening** at front door **42.8 Decibel**

SAFETY





As partly already covered in previous slides, E10 EcoVimec integrates many devices and features that place it at the top of the competition in terms of safety.

The safety system of E10, in fact, has been designed following the concept of **redundancy**, the duplication of actions and/or devices to perform the same function, in this specific case the blocking of the entire machine or components of it in case of emergency or breakdown.

Below, the main safety features of E10 are listed:

- **Emergency stop button in the cabin** or behind the COP (only with telescopic doors)
- **Door safety lock and dedicated locks**
- **Safety lock for automatic doors** in the cabin
- **Infrared barrier**
- **Safety contacts** on the **COP** and in the **roof** - in case one of these elements are opened, an electrical contact interrupts the machine power supply
- **Magnetic sensors** positioned in the arch to ensure the correct stop positioning at the floors
- **Emergency stop in the pit** - the device is the same as the button in the cabin or behind the COP
- **Microswitches** in the headroom and in the pit that stop the machine if it goes beyond the last floor
- **Safety** in the pit and in the headroom (see dedicated slide)
- **Overload Control** - a dedicated sensor detects if the load is higher than allowed by interrupting machine operation
- **Over Speed Governor (O.S.G.) and safety gear** (see dedicated slide)
- **Safety inverter** (see dedicated slide)

# SAFETY – PIT AND HEADROOM



SAFETY

According to the standard [EN 81-41](#), «if a clear space of 500 mm minimum is not available under the platform when at its lowest position, a manually positioned mechanical blocking device shall be provided to enable the platform to be held in a raised position and to create a free distance of at least 500 mm between the floor of the working area and the lowest parts of the platform”.

In the E10 **pit**, in fact, in addition to the red stop button, there is a **700 mm steel strut** (placed between the floor of the work area and the lower parts of the platform) that is raised before entering the pit and is equipped with an electrical safety contact that detects the correct positioning of the strut and disables all machine controls. This system guarantees the stop of the machine travelling downwards at nominal speed with the maximum working load.

Similarly, there is a **600 mm steel strut** in the **headroom**, which is raised before access in the header for maintenance, which is also equipped with a safety contact.

# SAFETY – BACKUP INVERTER

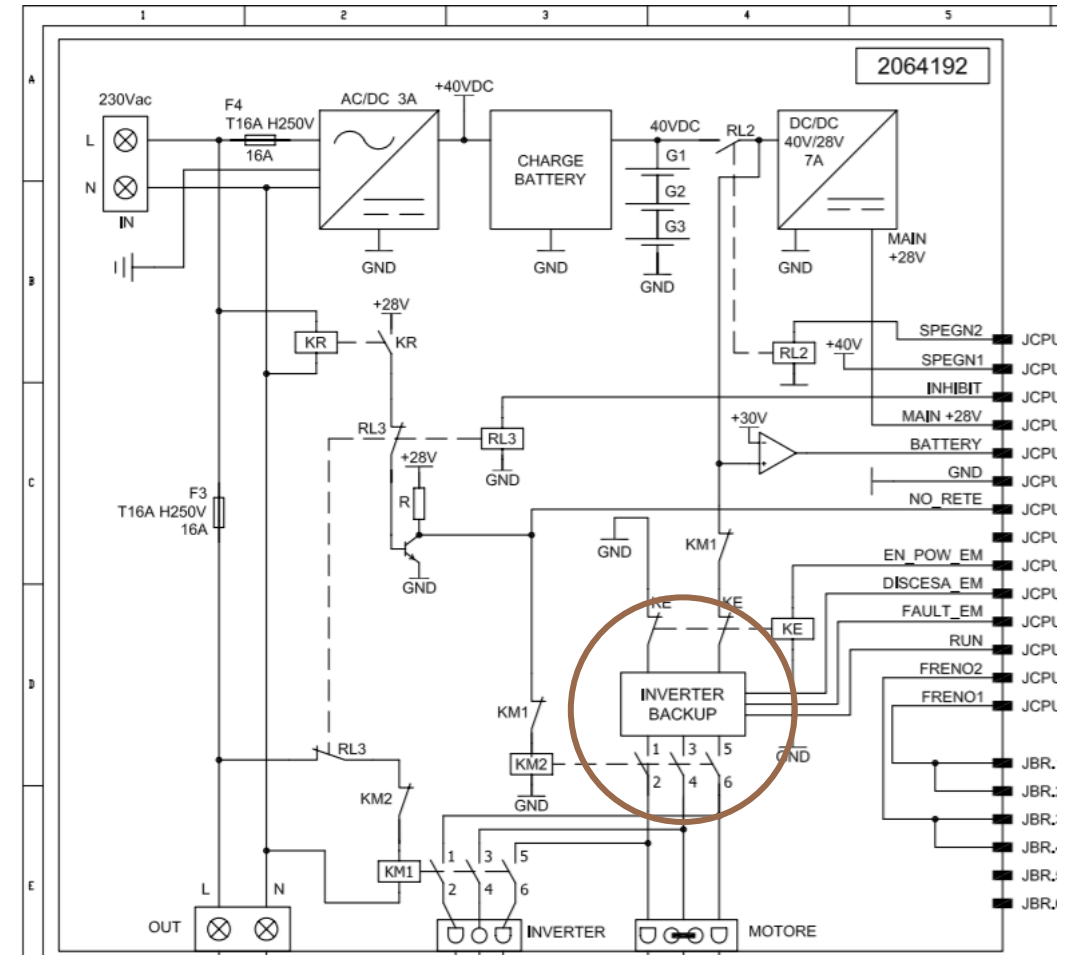


SAFETY

In the event of a power failure (blackout) or failure of the main inverter, E10 has an **additional backup inverter** that intervenes allowing the machine to descend to a lower floor and disembark any passengers safely. **Vimec is the only manufacturer of electric lifts to integrate this safety solution.**

In the case described above, the machine **stops progressively**, the lights in the cabin are dimmed and only the buttons of the lower floors remain active - the only possible manoeuvre is then to press one of the backlit buttons to reach the lower floors. On request, it is possible to set a predefined floor to disembark in case of emergency.

This operation takes place at a reduced speed and when the floor is reached the door opens regularly. The cabin display will show the abbreviation EM.



# SAFETY – O.S.G. AND SAFETY GEAR



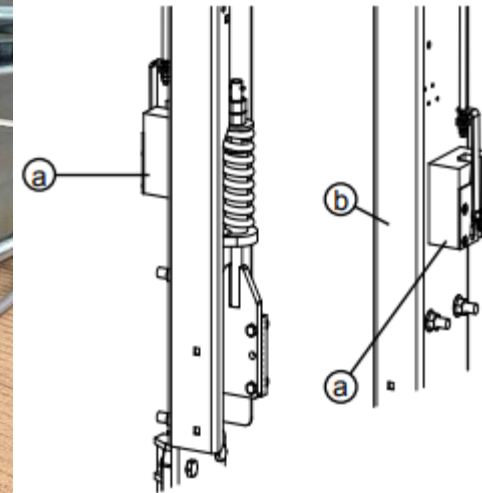
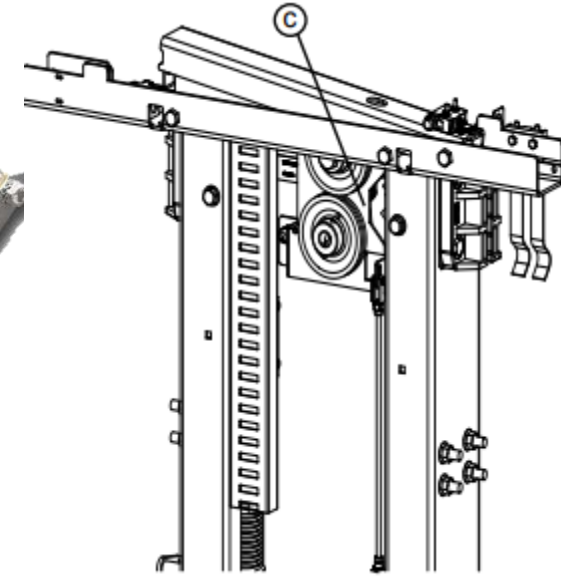
If the machine exceeds its maximum allowed speed, while going upwards or downwards, or in case of breakage/loosening of the traction belts, a safety device called **Over Speed Governor (fig. c)** is triggered which acts by blocking the machine. The governor, placed in the arch, interrupts the power supply of the elevator and simultaneously causes an additional mechanical **safety gear (fig. a)** to come into operation. The gear is composed of two blocks placed on each guide and has the following main characteristics:

- *Progressivity* - it stops the cabin avoiding sudden overhangs and braking
- *Unidirectionality* - it is activated only when going downwards

The combined action of these two devices makes it possible to stop and hold the cabin or the balancing mass on the guides.

Vimec's technical staff, during installation and testing, is able to test the operation of the devices from outside using a special test device.

In case of intervention of the safety gear, the intervention of specialised VIMEC personnel is required to unlock the machine.



SAFETY



ATISAE

## CERTIFICADO DE EXAMEN U.E. DE TIPO

EU TYPE-EXAMINATION CERTIFICATE

Según el anexo IV parte A de la Directiva 2014/33/UE / According to annex IV part A of Directive 2014/33/EU

Número de certificado. / Certificate number	ATI / LV / 008	rev: 2
Organismo Notificado. Notified Body	TÜV SÜD ATISAE, S.A.U Avda. de los Artesanos, 20 E 28760 Tres Cantos MADRID (ESPAÑA) Nº de identificación / ID number 0053.	
Clase. Tipo. Product. Type	Limitador de velocidad (LV) Overspeed governor	
Modelo / Model		
Fabricante. Manufacturer		
Propietario del certificado. Certificate Holder		
Fecha de presentación. Date of submission	14/07/2016	
Fecha del examen de tipo. Date of type examination.	29/07/2016	
Laboratorio de ensayo. Test laboratory	(véase en el anexo técnico sección 2.14). (Please refer to technical annex section 2.14)	
Informe de ensayo Test report	(véase en el anexo técnico sección 2.14). (Please refer to technical annex section 2.14)	
Directiva / Directive.	Directiva 2014/33/UE de 26 de febrero de 2014 Directive 2014/33/EU of 26 February 2014	
Norma de referencia. Standard of reference	EN 81-1:1998+A3:2009; EN 81-2:1998+A3:2009 EN 81-20:2014; EN 81-50:2014;	
Informe de ATISAE. / ATISAE report	MD_DEU_162727 (17.06.2016) MD_DEU_144690 (19.01.2015) MD_DEU_132958.002 (12.07.2013)	
Plazo de validez / Expiry date	Indefinido / (véase en el anexo técnico sección 2.16). Indefinite / (Please refer to technical annex section 2.16)	

**Declaración:** El componente de seguridad permite al ascensor sobre el que se instale satisfacer los Requisitos de Seguridad y Salud de la citada Directiva usándose dentro del alcance que queda establecido en el anexo técnico de este certificado, así como con las condiciones de instalación indicadas.

**Statement:** The safety component allows the lift on which it is installed to satisfy the health and safety requirements of the Lifts Directive when it is used within the scope, as well as under the installation conditions that are set up in the technical annex to this certificate.



José Manuel Flores González  
Director Técnico

Este certificado consta de esta portada, un anexo técnico de 5 hojas y 1 plano / documento. Su reproducción carece de validez si no se realiza íntegramente.  
This certificate consists of this main page, a technical annex with 5 pages and 1 drawing / document. It shall be reproduced with all its pages to be considered valid.

TÜV SÜD ATISAE S.A.U.  
Avda. de los Artesanos, 20. E28760 Tres Cantos MADRID  
Tel: 91 806 17 20



All E10s are equipped with an integrated **telemonitoring** system (a retrofit kit is available for already installed units).

The telemonitoring device is connected to the Cloud via a GSM module - from the Cloud our Service department will be able to access a range of information remotely in order to optimise costs and repair time for the lift.

By accessing the Cloud, via any mobile device or computer, our service team is able to:

- Monitor the performance of the lift 24 hours a day
- Send alarm alerts via e-mail
- Send alarms via SMS
- Set customised working parameters
- Access alarm history
- Obtain data about working hours
- Remote control the lift

Telemonitoring can make the Service department more efficient. The Service department will be able to optimise trips by not requiring an on-site visit to analyse the problem.

# PACKAGING



# PACKAGING

Standard packaging mode for E10 Eco Vimec are:

## For masonry shaft installation:

- **One** OSB wooden **box** containing the whole machine up to 4 floors/doors – motor, guides, walls, floor, swing doors.



In case of machine with swing doors up to 4 floors, it is the **only necessary box**.

- Cardboard boxes for automatic doors (if present)

## For metal structure installation:

- **One** OSB wooden **box** containing the whole machine (as for masonry shaft installations)
- One or more OSB boxes containing the metal structure pillars
- One or more OSB boxes containing the crossbeams and the cladding frames of the metal structure
- Wooden OSB boxes containing glass claddings (if present)
- Cardboard boxes for automatic doors (if present)



# PACKAGING

We introduced some news in the packaging that represent a real added value for the assembler and the customer:



**We reduced plastic to a minimum** inside the wooden box of the machine by eliminating bubble wrap and other plastic cases. The packaging materials come from recycled sources and/or are in turn recyclable. Our short-term objective is to completely eliminate plastic.



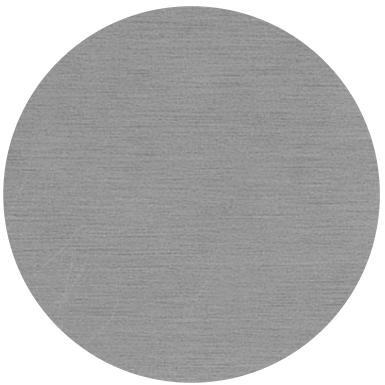
- ✓ All the components inside the box are placed in **assembly order (Last In First Out)** allowing
  - Better organisation on site
  - Reduced assembly time (you don't have to «look for» components anymore)
  - Improved protection by reducing material movements that can cause scratches and breakages
- ✓ The wooden box provides for the front side to be fixed by means of easily “unscrewable” and screw-on screws - in this way the box can be closed at the end of the day and serve as a site **warehouse**.
- ✓ All **wires** and **components** are **pre-assembled as kits** to grant maximum ease of assembly operations.



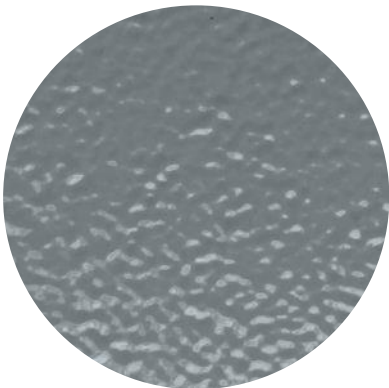
# FINISHES – SALES MEMO

**STANDARD** finishes OVERVIEW of internal/external E10 parts

	Type	Material	Surface
FLOOR	-	Rubber	Anti-slip, with stamps
INTERNAL WALLS	With COP	Coated steel	Grey
	Others	Coated steel	Grey
SWING DOORS (Frames included)	Panel	Acciaio verniciato	Semi-glossy orange-peel
	Aluminum	Aluminum	
	EI 60/120	Painted steel	
	Fireproof UK	Painted steel	
TELESCOPIC DOORS (Frames included)	Cabin	Coated steel	Similinox
	Floor	Coated steel	Similinox
METAL STRUCTURE	PILLARS, CROSSBEAMS, BRACKETS, ROOFS	Steel	Semi-glossy orange-peel
	FRAMES	Aluminum	



Similinox



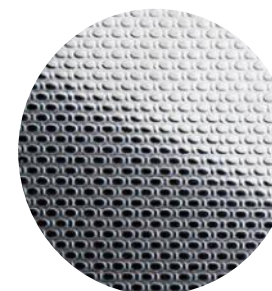
Semi-glossy orange-peel



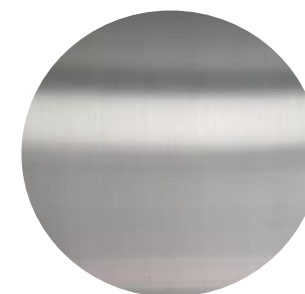
# FINISHES – SALES MEMO

**OPTIONAL** finishes OVERVIEW of internal/external E10 parts

	Type	Material	Surface
FLOOR	-	PVC	Safestep
INTERNAL WALLS	-	Stainless steel or glass	Polished linen, Brushed
SWING DOORS (Frames included)	Panel	Painted steel	Alternative surface finish upon request
	Aluminum	Aluminum	
	EI 60/120	Painted steel	
	Fireproof UK	Painted steel	
TELESCOPIC DOORS (Frames included)	Cabin	Painted steel INOX 316 or 441	
	Floor		
METAL STRUCTURE	PILLARS, CROSSBEAMS, BRACKETS, ROOFS	Steel	
	FRAMES	Aluminum	



Polished Linen



Brushed stainless steel

# COLOURS – SALES MEMO

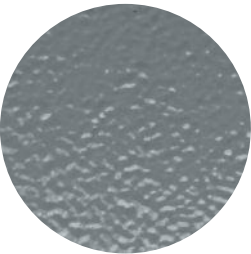
STANDARD colours **OVERVIEW** of internal/external parts of E10

	Type	Colour
FLOOR	-	Grey
INTERNAL WALLS	-	Grey
SWING DOORS (Frames included)	Panel	7040
	Aluminum	
	EI 60/120	7038
	Fireproof UK	7038
TELESCOPIC DOORS (Frames included)	Cabin	Grey
	Floor	Grey
METAL STRUCTURE	PILLARS, CROSSBEAMS, BRACKETS, ROOFS	7040
	FRAMES	7040

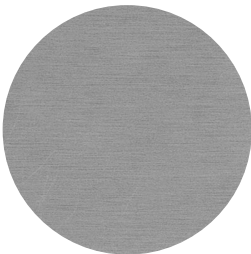
Grey with  
stamps



Vimec 7040



Grey  
(Similinox)



For all components, it is possible to choose an alternative RAL colour (except floorings).

# APPENDIX

- **AISI 316 and 441 Stainless-steel** STAINLESS STEEL classified according to the AISI notation (American Iron and Steel Institute). AISI 316 steel, in addition to Chromium (18%) and Nickel (8%) contained in the "classic" stainless steel (304), contains Molybdenum (3%) which makes this steel even more resistant to corrosion, making it ideal for environments characterised by high humidity and salinity. For this reason AISI 316 steel is suggested for our external doors. AISI 441 stainless steel, on the other hand, is distinguished from 304 by the absence of nickel while maintaining a good level of corrosion resistance.
- **IP (International Protection, protection class)** The standard CEI EN 60529/1997 (ex CEI 70-1) classifies the degrees of protection of cases for electrical equipment. The first digit indicates the degree of Protection against penetration of foreign bodies while the second indicates the degree of Protection against penetration of liquids.

FIRST DIGIT		SECOND DIGIT	
Protection against foreign bodies		Protection against liquids	
0	No protection	0	No protection
1	Protection against solid foreign bodies with a diameter from 50 mm	1	Protection against drops of water falling vertically
2	Protection against solid foreign bodies with a diameter from 12.5 mm	2	Protection against drops of water falling with max 15° inclination
3	Protection against solid foreign bodies with a diameter from 2.5 mm	3	Protection against drops of water falling with max 60° inclination
4	Protection against solid foreign bodies with a diameter from 1 mm	4	Protection against splash water on all sides
5	Protection against dust	5	Protection against water jets
6	Total protection against dust	6	Protection against intermittent powerful water jets
		7	Protection against intermittent submersion
		8	Protection against continuous submersion

- **EN-8158 EI 60 and 120 door** Door which, considering its high resistance to fire, has the possibility to isolate the flames in case of fire. The letter "E" of the acronym EI refers to HERMETICITY, i.e., the ability to hold fire avoiding not only the passage of flames but also of vapours and combustion gases. The letter "I", instead, refers to THERMAL INSULATION or the ability to reduce the transmission of heat to the face not exposed to fire (cold side) up to a maximum of 180°C. The number next to the abbreviation EI (60 or 120) indicates in minutes, the time within which the door can withstand fire, based on the tests carried out and the certification obtained.

# APPENDIX

- **FIREPROOF UK door** Fire door complying with BS (British Standard) 476 Part 8.
- **RoHS (Restriction of Hazardous Substances Directive) Certificate** It sets the concentration levels of hazardous substances (heavy metals, PBB, PBDE) in electronic equipment or electrical equipment marketed in the EU.
- **STOPSOL** Pyrolytic glass with reflective coating obtained by covering one side with metal oxide. It offers excellent sun protection, resistance to pollution and a high level of privacy.
- **UL (Functional Safety Listing Mark)** The UL mark is the most widely recognised and accepted certification attesting to the conformity of a product with US and Canadian safety requirements. It indicates that Underwriters Laboratories Inc. (UL) has tested representative samples of a product and found them to meet applicable standards in relation to their potential fire, electrical shock and mechanical hazards.
- **DIN 51130 (Slip resistance class)** it is a **German standard** containing a classification of flooring slipperiness depending on different angles. The angles are obtained from the average of the two operators, who - in turn - wear the appropriate footwear and harness and walk back and forth on a tilting ramp covered with the material to be tested sprinkled with a specific viscosity oil. The inclination of the ramp is progressively increased until the operator slips. The sliding angle is recorded: the average sliding angle of the two operators is then classified within intervals as defined by the regulation. These intervals define the material's slip resistance classes. The equivalent standard containing the classification according to the slipperiness tested barefoot is DIN 51097.

Inclination angle	DIN 51130 Class	Friction during the test on the ramp
$6^{\circ} \leq$ to $\leq 10^{\circ}$	R9	Minimum friction coefficient
$10^{\circ} <$ to $\leq 19^{\circ}$	R10	Normal friction coefficient
$19^{\circ} <$ to $\leq 27^{\circ}$	R11	Higher than standard friction coefficient
$27^{\circ} <$ to $\leq 35^{\circ}$	R12	High friction coefficient
$> 35^{\circ}$	R13	Very high friction coefficient










- **ISO 9001:2015** specifies requirements for a quality management system within an organization which cornerstones are Customer requests, Customer's satisfaction and continuous improvement. In the quality management system, all processes creating and controlling the services supplied to the Customer are described to guarantee that the expectations and needs of the Customer are met. ISO 9001:2015 follows a cycle called «PDCA – Plan, Do, Check, Act», an approach based on processes encouraging risk evaluation methods.
- **ISO 14001:2015** International standard, voluntary-based, applicable to every kind of public or private Organizations, that specifies the requirements for an environmental management system. To be compliant to ISO 14001, organisations need to:
  - Realise an environmental analysis, in other words reach a deep knowledge of the environmental aspects that an organisation needs to effectively manage, know the legislations and prescriptions applicable and evaluated the impacts;
  - Define a Company policy
  - Define specific environmental responsibilities
  - Define, apply and maintain all the activities, procedures and registrations as indicated in the ISO 14001 requirements.
- **UNI 11515-1:2020** This standard gives instructions for the design, installation and maintenance of resilient and laminate floor coverings.



- **UNI EN 81-20:2020** European standard that specifies the safety rules for permanently installed new passenger or goods passenger lifts, with traction, positive or hydraulic drive, serving defined landing levels, having a car designed for the transportation of persons or persons and goods, suspended by ropes or chains or jacks and moving between guide rails inclined not more than 15° to the vertical.
- **UNI EN 81-21:2018** European Standard that specifies the safety rules related to new passenger and goods/passenger lifts permanently installed in existing buildings where in some circumstances due to limitations enforced by building constraints, some requirements of EN 81 20:2014 cannot be met. This European Standard addresses a number of these constraints and gives requirements for alternative solutions. It is intended to be read and applied in conjunction with the European Standard EN 81-20:2014.
- **UNI EN 81-28:2019** European Standard that applies to alarm systems for all types of passenger and goods passenger lifts – the standard defines the requirements of the alarm systems aimed at preventing entrapment of users due to the lift not working properly towards bi-directional communication between the lift and an external rescue service. UNI EN 81-70 gives additional requirements for persons with disabilities (e.g., inductive loop, alarm button).
- **UNI EN 81-41:2011** European standard that specifies the safety requirements for construction, manufacturing, installation, maintenance and dismantling of electrically powered vertical lifting platforms affixed to a building structure intended for use by persons with impaired mobility: - travelling vertically between predefined levels along a guided path whose inclination to the vertical does not exceed 15°; - intended for use by persons with or without a wheelchair; - supported or sustained by rack and pinion, wire ropes, chains, screw and nut, friction/traction between wheels and the rail, guided chain, scissors mechanism or hydraulic jack (direct or indirect); - with enclosed liftways; - with a speed not greater than 0,15 m/s; - with platforms where the carrier is not completely enclosed. This standard deals with all significant hazards relevant to lifting platforms, when they are used as intended and under the conditions foreseen by the manufacturer. The standard is not applicable to vertical lifting platforms intended for use by persons with impaired mobility manufactured before the norm publication date.
- **UNI EN 81-50:2014** European standard containing design rules, calculations, examinations and tests of lift components which are referred to by other standards used for the design of passenger lifts, goods passenger lifts, goods only lifts, and other similar types of lifting appliances.
- **UNI EN 81-70:2018** European Standard that specifies the minimum requirements for the safe and independent access and use of lifts by a wide range of persons, including persons with disabilities.

- **UNI EN 81-71:2019** European standard that deals with the significant hazards, hazardous situations and events relevant to lifts which can be affected by vandalism when they are used under the conditions as foreseen by the installer. The norm defines 3 lift categories (0, 1 and 2):
  - 0. lift designed to meet the basic requirements of EN 81
  - 1. lift that meets additional requirements to safeguard the installation from acts of moderate vandalism,
  - 2. lift that meets additional requirements in order to protect the installation from acts of serious vandalism.
- **UNI EN 81-80:2019** European norm that gives a methodology for improving the safety of existing lifts with the aim of reaching an equivalent level of safety to that of a newly installed lift by the application of today's state-of-the-art for safety.
- un livello di sicurezza equivalente a quello degli ascensori installati di recente applicando lo stato dell'arte odierno in termini di sicurezza.
- **UNI EN 660-1:2004** European standard describing the "Stuttgart" test method for determining the wear resistance of the wear layer of polyvinyl chloride floor coverings under laboratory conditions.
- **UNI EN 685:2007** The standard establishes a classification system for resilient, textile and laminate floor coverings according to areas and intensities of use (now replaced by UNI EN ISO 10874:2012).

Pictogram	Use	Abrasion resistance
	High domestic traffic	AC3
	High commercial traffic	AC5
	Very high commercial traffic	AC6
	Low industrial traffic	
	High industrial traffic	

- **UNI EN 1815:2016** This standard specifies a method for determining the body voltage generated when a person wearing standardized footwear walks on a resilient or laminate floor covering. The test method can be used under laboratory conditions as well as in situ.
- **UNI EN 1993 1-3:2015** «Eurocode 3» European norm that provides principles and application rules for the structural design of membranes and corrugated steel sheets obtained by cold bending hot-rolled or cold-rolled flat products, coated and uncoated
- **UNI EN 13501-1:2019 (Reaction to fire class)** This standard provides the reaction to fire classification procedure for all construction products. According to the standard, reaction to fire is the response of a product in contributing by its own to a fire to which it is exposed, under specific conditions (not to be confused with fire resistance). The products are classified in Euro classes A1, A2, B; C, D, E and F. Products classified as A are non-combustible while those classified from B to F are combustible in ascending order. For all the A to D classified materials, there is a second level of classification according to smoke and particles/fire drops emitted during combustion. For PVC and linoleum floors, «s1» means that smoke emission during combustion is absent or very low.
- **UNI EN 13523-1:2017 (6-26)** Series of standards that regulate the characteristics of coated metal strips and related test methods.
- **UNI EN 13845:2017** This European Standard specifies the characteristics of floor coverings with sustainable enhanced slip resistant characteristics under specified conditions based on polyvinyl chloride and modifications thereof, supplied in either tile or roll form.
- **UNI EN 13893:2005** European standard that specifies a method for the measurement of dynamic coefficient of friction on dry floor surfaces (resilient, laminate or textile floors) generally stepped on by shoes.
- **UNI EN 14041:2018** This European Standard specifies the essential characteristics for the following types of floor coverings:
  - resilient floor coverings, excluding loose-laid mats;
  - textile floor coverings, excluding loose-laid (barrier) mats, runners and rugs;
  - laminate floor coverings;
  - modular multilayer floor coverings.



- **UNI EN ISO 10580:2012** The norm specifies a general laboratory test method for determination of the area-specific emission rate of volatile organic compounds (VOC) and/or the vapour-phase VOC concentration under defined climate conditions. ISO 10580:2010 describes emission test chambers used for the determination of the emission of volatile organic compounds from resilient, textile and laminate floor coverings.
- **UNI EN ISO 10582:2018** European norm that specifies the characteristics of non-cushioned, heterogeneous floor coverings, consisting of poly(vinyl chloride) (PVC), supplied in either tile or plank or roll form. Products can contain a transparent, non-PVC factory finish. To encourage the consumer to make an informed choice, this document includes a classification system (see ISO 10874) based on the intensity of use, which shows where these floor coverings give satisfactory service. It also specifies requirements for marking.
- **UNI EN ISO 10874:2012** The norm establishes a classification system for resilient, textile and laminate floor coverings. The classification is based on practical requirements for areas of use and intensity of use and is linked to the requirements specified in the relevant International Standard for each type of floor covering.
- **UNI EN ISO 12944:2018** The standard deals with the corrosion protection of steel structures by protective coating.
- **UNI EN ISO 13845:2017** European standard specifying the characteristics of polyvinyl chloride-based floor coverings supplied in tiles or rolls with advanced slip resistance characteristics under specified conditions.
- **UNI EN ISO 23997:2012** This International Standard describes a method for determining the mass per unit area of a resilient floor covering.
- **UNI EN ISO 23999:2018** This norm specifies a method for determining dimensional stability and curling of resilient floor coverings, in the form of sheets, tile or planks after exposure to heat.
- **UNI EN ISO 24340:2012** This International Standard describes a method for determining the thickness of different layers of resilient floor coverings.
- **UNI EN ISO 24341:2012** This International Standard specifies methods for determining the length, width and straightness of resilient or textile floor coverings in sheet form.
- **UNI EN ISO 24344:2012** This International Standard describes methods for determining flexibility and deflection of resilient floor covering.

A silhouette of a person is shown climbing a large, dark rock face. The sun is low on the horizon, creating a bright orange and yellow glow that silhouettes the climber and the rock. The word "vimec" is written in a white, lowercase, sans-serif font, centered horizontally and partially overlapping the rock face. In the bottom right corner, there are two small, solid-colored squares, one teal and one orange, stacked vertically.

vimec