



Inclined Platform Lift - Supra

# Technical specifications

Rev.05



**ThyssenKrupp Encasa**  
Life in motion.



**ThyssenKrupp**

# Technical specifications

## Supra

### Inclined platform lift - Curvilinear rail with variable inclination

#### Machine body

Powder Painted Steel load-bearing structure with body work entirely covered in ABS+PPMA; Independent motorized safety bars on the ascending/descending sides, synchronized with the platform's automatic folding/unfolding system.

#### Platform

Hot dip galvanized steel structure with anti-slip flooring, exposed parts in aluminium or in ABS+PPMA; motorized folding/unfolding platform with motorized mobile flaps on the ascending and descending sides, which serve as a containment measure during travel, and as access ramp when boardin on/off the platform.

#### Rail

Double aluminium profile (40 x 80 mm sections), powder painted (RAL 9006), with a safety rating of IP2X. The rail follows the course of the staircase and the landings. The upper profile, with its ergonomic shape, also serves as a handrail. The stainless steel rack is positioned beneath the lower profile.

#### Controls

On board: Hold to run controls with removable key and emergency stop button. Operated by ergonomic key or push buttons.

At the landings: Hold to run control stations (for wall installation) with removable key, call/send and folding/unfolding functions. Operated by ergonomic key or push buttons or joystick.

#### Application

Indoors or Outdoors (a protective waterproof cover can be supplied upon request). IP55 protection degree recommended for units exposed to direct rain.

#### Rated load

300 kg for small gradients or gradients equivalent to 30°.  
250 kg for gradients ranging from 30° to 39°.  
190 kg for gradients ranging from 39° to 45°.

#### Rated speed

Standard Version: 0.07 m/s  $\pm$  15% soft start/stop  
High Speed Version: 0.13 m/s  $\pm$  15% soft start/stop with decelerations at curves.  
Speed is subject to variations according to load and mains voltage.

#### Rail Layout and Inclination

The rail must be installed on the internal side of the staircase.  
With gradient from 0° to 45°.

#### Rail anchorage

By means of fitted vertical supports on the steps, with metallic expansion bolts. Wall anchorage with reinforced concrete walls only.

#### Staircase dimensions

Minimum 865 mm.  
According to platform width and rail anchorage.

#### Bottom Landing dimensions

Minimum 1300 mm. According to platform length and step size.



#### Traction system

High torque starter motor equipped with an electromagnetic brake. Rack and Pinion system with pinion in hardened steel, operated directly by a non-reversible worm gearbox.

#### Power Circuit

Main and auxiliary circuits powered at 24 Vdc, supplied via a safety transformer (SELV, in accordance with the IEC 64-8 standard).

#### Safety features

- The inclined platform lift automatically stops in the presence of obstacles. Anti-shearing system (on the sides of the machine and on the mobile platform flaps); anti-impact system (on the sides of the machine and on the mobile platform flaps); anti-crushing system (on the lower surfaces of the platform and on the lower surfaces of the machine body).
- Load Control Device (in case of overload, this system impedes the platform lift's functionality).
- Alarm (an audible signal is activated when the emergency button is engaged).

#### Overspeed Safety

- In the unlikely event that the lift should descend too quickly, mechanical and electrical safety devices will activate and stop progressively the platform from moving. It consists in:
- progressive-grip type safety stop mechanism, controlled directly by a speed limiter to disconnect the motor's electrical power supply.
  - mechanical over speed governor (OSG).

#### Emergency manoeuvre

Manual, via a smooth-operating handwheel.

### Duty cycle

SUPRA is designed for a continuous service

### Environmental Requirements

	Standard version	IP55 version
Operating ambient temperature (*)	0° to +40° C	0° to +40° C
Nonoperating temperature	-5° to +55° C	-25° to +55° C

(\*) in the absence of ice formations and/or snow accumulations

### Noise level

63 dBA (59 dBA for higher speed version).

### Conformity

Machinery Directive 2006/42/CE

Electromagnetic Compatibility (EMC) Directive: 2004/108/EC

Low Voltage Directive: 2006/95/EC

Harmonized standard: EN 81-40

### Type approval

CE, TÜV.

### Contents

The unit is comprised of the following components: rails and anchoring apparatus, machine body and platform, electrical box, CE declaration of conformity.

### Main Options

- Auxiliary power system: during a power outage, this unit guarantees the machine's functionality for approximately 15 minutes with the platform fully loaded.
- Audio/Visual Alert: this device positioned on stairs or onboard is designed to alert pedestrians about the movement of the platformlift.
- Folding seat
- Different platform sizes
- Long side access flap
- Different control devices for passengers or attendants
- Control Stations on steel pillars integrated with rail (floor mounting)

### Warranty

24 months. Extension up to 60 months is possible.

### Customer responsibilities

The customer is responsible for:

- the construction work required for installation.
- the connection of the electrical lines from the building's switchboard to the inclined platform lift.
- the metal work for the cutting of the railings and handrails, as well as any restoration and painting requirements.

The customer is also required to:

- guarantee the durability of the walls, staircase and steps, and must indicate the presence of any channelling or piping within the walls or flooring (in correspondence to the fittings for the inclined platform lift's supports/railings).
- ensure a dedicated 16 ampere power line, compliant and certified according to local regulations and to the specifications of the manufacturer, using conductors with a minimum cross-section of 2.5 mm<sup>2</sup>, disconnected with RCD and circuit breaker, placed as close as possible to the stairlift. For the sizing of the line and the choice of the protection switch refer to the following table.

### Electrical data

Version	Power Supply	Motor Data	Maximum Absorbed Current	Circuit Breaker/ RCD
Standard	230 ± 10% Vac 50/60 Hz	24 Vdc, 350 W	3 A	10 A Type C / 0.03 A Type AC
High speed	230 ± 10% Vac 50/60 Hz	24 Vdc, 700 W	4.7 A	10 A Type C / 0.03 A Type AC

As of Jan 2015. Technical data subject to change without notice.  
Characteristics may vary based on markets and local standards.



Smart  
Installation



Easy  
Connections



Reliable  
and Robust



Worldwide  
Certified

**ThyssenKrupp Encasa**  
Life in motion.



**ThyssenKrupp**