# Thalassa

Insulating and fiberglass reinforced polyester enclosures

se.com/enclosures

Life Is On | **Schneider** Electric

# Ensuring everything will be okay in our daily lives

## Enclosures are everywhere around us and play a crucial role.

Street lighting, telecommunications, traffic control, motorways, airports, rail networks, harbors, hoisting, solar plants, water treatments plants, electric vehicles, almost all electrical infrastructures and also industrial applications are linked to electrical enclosures.

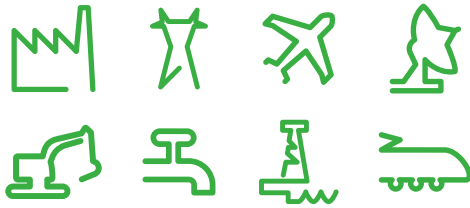All these applications need solutions that improve performance and safety.

Thalassa fiberglass reinforced polyester enclosures have been designed to offer protection no matter the challenges of the environment.

**Green Premium™**

## Protection against

- Electric shocks
- Corrosion
- Harsh environments
- Impacts
- Vandalism
- Temperatures
- Chemical agents
- UV radiation

## Material properties

- Low-maintenance
- Halogen-free
- Corrosion-less machining
- Easy to repair
- Light
- Robust
- Easy to transport
- Easy to install
- Easy to use
- Self-extinguishing

Whether the equipment you want to protect is exposed to direct sunlight, rain, saline mist, extreme temperatures or chemicals. Thalassa enclosures are the best option.

Full insulation improves people´s safety not only in the industry but also in streets, parks and other public places accessible to people.

Polyester is equally impressive in any indoor environment where electric and electronic components are constantly exposed to dust, oils splash or impacts.

Product info available 24/7 flashing the QR code on the product label



Compliance with international standards

It applies depending on the family

# The best choice for harsh environments

Thalassa is a complete solution ranging from modular boxes to wall mounting, floor standing and outdoor heavy-duty enclosures. All of them are ideal for harsh environments due to the excellent properties of the fiberglass reinforced polyester molded by hot compression.

### Thalassa TBS-TBP
Insulating industrial boxes

### Thalassa PLA
Polyester floor standing enclosures

### Thalassa PLS
Insulating polyester and polycarbonate modular boxes

### Thalassa PLD
Polyester DIN enclosures

### Thalassa PLM
Polyester wall mounting enclosures

### Heavy Duty PHD
Polyester wall mounting and floor standing outdoor enclosures

- No electric risk due to Class II insulation
- Corrosion resistance
- Weather resistance (UV, atmosphere agents, temperatures)
- Water and dust tight
- Robustness, impact resistance
- Anti vandalism
- Fire resistance
- Long life
- Lightness
- Protection against chemical agents
- Halogen-free

PEP eco PASSPORT®

# Widest range in standard and customized protection

Insulating and polyester enclosure ranges: technical characteristics

## Thalassa TBS-TBP
Insulating industrial boxes

- TBS body made of ABS for conventional applications with usual constrains
- TBP body made of Polycarbonate for external UV applications
- 2 types of covers: high or low. Transparent (PC) or opaque (ABS for TBS, PC for TBP)
- More than 70 options
  *Height: from 74 up to 341 mm*
  *Width: from 74 up to 291 mm*
  *Depth: from 54 up to 168 mm*
  RAL7035
  Class II
- Certifications: IEC62208, UL508A (for TBP range), CE, REACH, RoHs
- Complete range of accessories

## Thalassa PLS
Insulating modular boxes

- Body made of fiberglass reinforced polyester
- 3 types of covers: transparent polycarbonate, opaque polycarbonate and polyester
- 4 modular dimensions: From 180x270x1800mm up to 540x720x230mm
- RAL7035
- Class II
- IP66 / IK09
- Self-extinguishing: 960º test withstanding
- Certifications: UL508A, IEC62208, CE, REACH, RoHs
- Inserts at the rear to fix plates or supports
- Locking by 4,6 or 8 screws according to dimensions
- Modular distribution version supplied with chassis
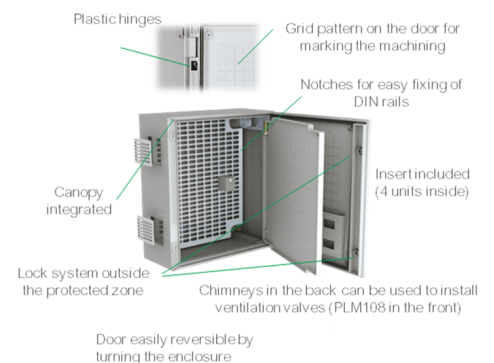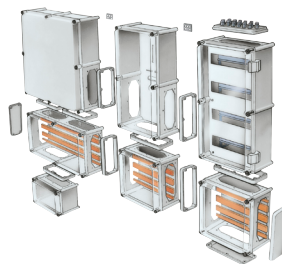- Complete range of accessories

## Thalassa PLM
Polyester wall mounting enclosures

- Monoblock body
- 40 options, 8 dimensions
  *Height: from 308 up to 1056mm*
  *Width: from 215 up to 852mm*
  *Depth: from 160 up to 350mm*
  *PLM32 made of ABS/PC*
- RAL7035
- Class II
- IP66
- IK10 plain door - IK08 glazed door
- Self-extinguishing: 960º test withstanding
- Certifications: UL 508A, IEC62208, Marine, CE, REACH, RoHs
- Joinable enclosures
- 1 or 2 locks according to size
- Complete range of accessories

PLS modular assemble

Plastic hinges

Grid pattern on the door for marking the machining

Notches for easy fixing of DIN rails

Canopy integrated

Insert included (4 units inside)

Lock system outside the protected zone

Chimneys in the back can be used to install ventilation valves (PLM108 in the front)

Door easily reversible by turning the enclosure

# Smart design to suit to market needs

Polyester enclosure ranges: technical characteristics

## Thalassa PLA
Polyester floor-standing enclosures

- 230 different options, 4 versions
  *PLA (completely closed)*
  *PLAT (with ventilated canopy)*
  *PLAZ (with open bottom part)*
  *PLAZT (with ventilated canopy + open bottom part)*
- 46 dimensions
  *Height: from 500 up to 2000mm*
  *Width: from 500 up to 1250mm*
  *Depth: 320, 420, and 620mm*
- RAL7035
- Class II
- IP65/54/44 depending on the version
- IK10 plain door - IK08 glazed door
- Self-extinguishing: 960º test withstanding
- Certifications: UL 508A (PLA version), IEC62208, Marine (PLA version), CE, REACH, RoHs
- Joinable enclosures
- Door opening
  *to 120º PLA, PLAT, PLAZ*
  *to 180º PLAZT*
- 1 or 2 doors based on the size
- Handle lock system
- Complete range of accessories

## Thalassa PLD
Polyester DIN enclosures

- Four options: DIN 00, DIN 0, DIN 1, DIN 2 (2 doors)
  *Height: 850mm*
  *Width: from 465 up to 1115mm*
  *Depth: 320 mm*
- RAL7035
- Class II
- IP43 (Kit IP54 available)
- IK10
- Certifications: CE, REACH, RoHs
- Handle with lever and 1242 E cylindrical safety lock
- Exclusive accessories available

## Thalassa ranges can be configured according to your needs

Four different services available:

Assemble to order   Mounting of standard accessories   Painting   Machining

### Spacial.conf
Configuration and quotation of enclosures

## Nieuwpoort Belgium
### The biggest marina in Northern Europe

Installation of Thalassa PLA enclosures equipped with mounting plate, canopy, thermostats and heaters to achieve the remote management and administration of the technical installation of the marina.

# Thalassa heavy duty is ready for the next level

## Polyester enclosure ranges: technical characteristics

Anti-burglary accessory in accordance with ENV 1627-1630:2011 Class II is available.

It keeps the Insulation Class II according to IEC 61439-1:2011.

### Thalassa PHD
Polyester heavy-duty enclosures

- WM and FS made by assembling parts to meet the standard EN 439-5
- 32 different options
  *Height: from 500 up to 2000mm*
  *Width: from 500mm up to 1250mm*
  *Depth: 320, 420, and 620mm*
- RAL7035
- Class II
- IP65 (WM version) / IP55 (FS version)
- IK10
- Sharp edge object resistance
- Corrosion metallic parts C4H – ISO12.944
- Fire resistance EN 1794-2
- Space for electronics IEC 60297-3-100
- Anti- posting
- Certifications: UL 508A, IEC62208, IEC61439-5 (Infrastructure), IEC61969-3 (Outdoor environment)
- Joinable enclosures
- Lifting possible from top with eyebolt accessory
- Plain or ribbed door available
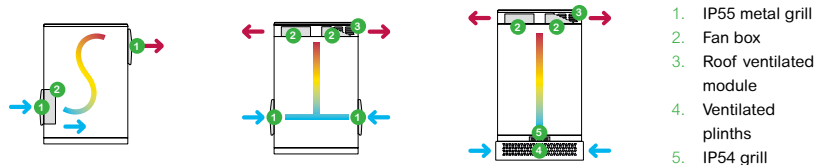- Exclusive heavy-duty accessories

### Heavy duty enclosures come equipped with:

- HD canopy
- HD plinth (FS)
- Door retainer (FS)

- Document holder
- Aluminium cable gland plate
- Handle with key, lock hole

## Three types of ventilation architecture

Designed to solve thermal management difficulties in both public and private outdoor installations

1. IP55 metal grill
2. Fan box
3. Roof ventilated module
4. Ventilated plinths
5. IP54 grill

- Maximum heat dissipation up to 1000W.
- Easy access to mount-dismount FanBox.

- High capacity of extraction calories up to 1500W.
- Low noise with 1 fan: 55dB.
- Saved installation area.
- Easy to manage entry cable.

- High capacity of extraction calories up to 1500W.
- Low noise with 1 fan: 55dB.
- Saved installation area.
- Air flow in vertical axis.
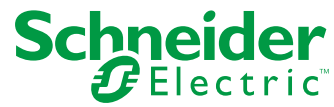
### ProClima

Thermal calculation software

## Buenos Aires, Argentina
### Paseo del Bajo Highway

Installation of Thalassa PHD enclosures equipped with ClimaSys I-line system, heaters and antiburglary accessories for the lighting system of the highway (1.000V). The enclosures were installed in the outdoor zones of the 7.1 km route that connects the north with the south of the city.

Life Is On | **Schneider Electric**

se.com/enclosures