

Protection of your equipment in the harshest environments

Thalassa™ Polyester Enclosures provide superior protection, wherever you need it.



Schneider
Electric



You need enclosures that are resistant to harsh environments, easy to machine and repair, and comply with industry standards.

We deliver on your expectations, providing customised enclosures to meet your specific application requirements.

We aim to meet your business challenges, providing superior protection of sensitive equipment in the harshest environments.



Commercial buildings, car parks, hotels, leisure facilities, camping grounds.



General industry, paper, mining, petrochemicals.



Water treatment, irrigation, roads, cities, airports, harbours, railways, photovoltaic solar energy.



Data centres, facility providers (telephone/internet), remote monitoring and control.

Superior protection in the harshest conditions.

Polyester; a strong, lightweight, highly resistant material made from fibreglass reinforced polyester. This durable insulation material provides superior protection from corrosion, making it ideal for use in the most extreme environments.

Thalassa PLM

Polyester wall-mounting enclosures



Thalassa PLS

Insulating modular boxes



- > Safety, due to full electrical insulation
- > Oxidation resistance
- > Weather resistance (UV, atmospheric agents)
- > Temperature resistance
- > Excellent impact resistance
- > Protection against vandalism
- > Fire resistance
- > Long life (20 – 30 years)
- > Light weight (1.5 times lighter than steel)
- > Protection against most chemical agents



Thalassa delivers the protection you need

Thalassa polyester enclosures have been designed to provide superior protection everywhere, in any challenging environment.

If you need to protect electrical equipment from direct sunlight, rain, saline mist, extreme temperatures or chemical/corrosive agents, Thalassa polyester enclosures deliver the protection you require. Thalassa enclosures also perform equally as well in an indoor environment that is subjected to dust, splashing oil or impact.

Protecting your equipment for more than 50 years

Schneider Electric has more than 50 years experience as leading specialists in enclosure systems for the protection of automation and electronic devices, in all types of industries.

Aggressive environments require special protection

Polyester is proven to be a resistant and durable material, that makes it the perfect choice for aggressive environments, indoors and outdoors.

Protection against:

- > electricity
- > oxidation
- > weather
- > impacts
- > vandalism
- > temperatures
- > protection against most chemical agents.

Material properties:

- > maintenance free
- > halogen free
- > easy to machine
- > easy to repair
- > light
- > robust
- > easy to install
- > easy to use.



Why are polyester enclosures your best choice?

Small, wall-mounting enclosures or large floor-standing enclosures provide durable, maintenance-free protection that withstands aggressive atmospheres.



Environment

Polyester enclosures are recyclable and compliant with European environmental directives RoHS 2002/95/EC and REACH 1907/2007/EC.

Advantages of polyester vs thermoplastics

- > Polyester is a self-extinguishing material (960°C x 30 sec. according to IEC 60695-2 test standard). Thermoplastics are not always self-extinguishing.
- > Polyester is resistant to very hot temperatures: > 200°C. Thermoplastics are resistant to temperatures between 70 – 120 °C.

Advantages of hot vs cold compression moulding

- > Perfectly identical pieces.
- > Excellent finishing, internal and external.
- > Inserts already correctly positioned before moulding.
- > Moulded bosses for inserts and fixing devices.
- > Smart shape design for IP and aesthetic reasons.
- > Short delivery times (one enclosure = three minutes) thanks to large and fast production schedules.

Thalassa enclosures vs the competition

- > Aesthetic designs; some including anti-flyposting doors.
- > Canopy versions always available, ideal for indoor and outdoor applications.
- > Locks outside protected area to eliminate electrical risks.
- > With 62 dimensions, the Thalassa range is the largest offer in the market.
- > Different installation options: wall, ground, pole.



Customisation

- > Easy drilling without corrosion problems.
- > Very precise machining (robotised).
- > Coloured raw material.
- > Juxtaposition of enclosures.

Durability

x10

Thalassa polyester enclosures are completely customisable and durable, lasting up to 10 times longer than other enclosures.

We build enclosures to suit your

Polyester enclosures range: technical characteristics

Thalassa PLS

Insulating modular boxes



Description

Industrial boxes polyester and accessories

- > Body made of fibreglass reinforced polyester, moulded by hot compression, RAL 7032 colour, 135mm height.
- > Three types of covers:
 - transparent polycarbonate, 45mm or 95mm height
 - opaque polycarbonate RAL 7032, 45mm or 95mm height
 - polyester RAL 7032, 45mm height.
- > 14 dimensions from 180 x 270 x 180mm up to 540 x 720 x 230mm.
- > Modular dimensions of sides: 180, 270, 360, 540, and 720mm.
- > Height and width are indifferent.
- > Locking by 4, 6, or 8 screws, according to dimensions.
- > Mounting bosses already moulded with inserts M6.
- > Modular distribution version (supplied with chassis).
- > Total insulation for realisation of Class II equipment.
- > Degree of protection: IP65.
- > Impact resistance: IK09.
- > Self-extinguishability: 960°C test withstanding.
- > Certification of complying with IEC 62208 enclosure standard.
- > UL/CUL certification.

Thalassa PLM

Polyester wall-mounting enclosures



Description

WM polyester enclosures and accessories

- > Body and door made from fibreglass reinforced polyester, moulded by hot compression, RAL 7032 colour. Same finish for all surfaces.
- > Eight dimensions from 310 x 215 x 160mm up to 1056 x 852 x 350mm.
- > Bosses for fixing points are moulded, inserts included.
- > Two locks with double-bar insert or one lock with three action points.
- > Version with plain or glazed door.
- > Version with metallic or Bakelite mounting plate.
- > Total insulation suitable to produce Class II assemblies.
- > Degree of protection IP66.
- > Impact resistance:
 - IK10 for plain door version
 - IK08 for the glazed door.
- > Self-extinguishability: HB40 classified and 960° test withstanding.
- > Certification of compliance with IEC 62208 enclosure standard.
- > UL/CUL certification.
- > Polyester plinths ZM 200mm, stackable 2 x 200mm, for PLM75, PLM 86, PLM108 enclosures.



exact needs!

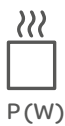
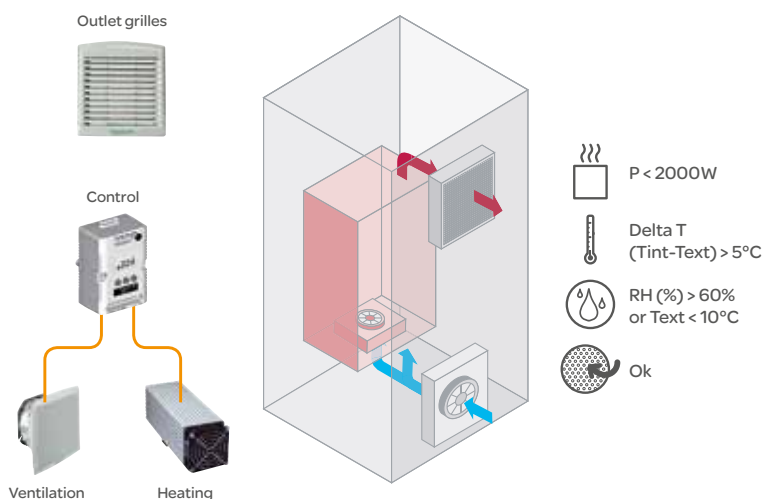
Cooling/heating architecture

for Thalassa polyester enclosures



Description

- > Reliable thermal calculation with the help of ProClima™ 5.1 software.
- > Calculate heating, cooling, airing, and control requirements.



Dissipate power of internal components



High level of humidity and condensation risk



Wide range of temperature conditions from $-40^{\circ}C$ to $60^{\circ}C$



Specific ventilation



For: car parks, hotels, leisure installations, camping sites, paper, mining, petrochemicals, water treatment, irrigation, road, cities, airports, harbours, railways, photovoltaic, solar energy, mobile phones, Internet, remote control, etc.

