

PolyShelter:

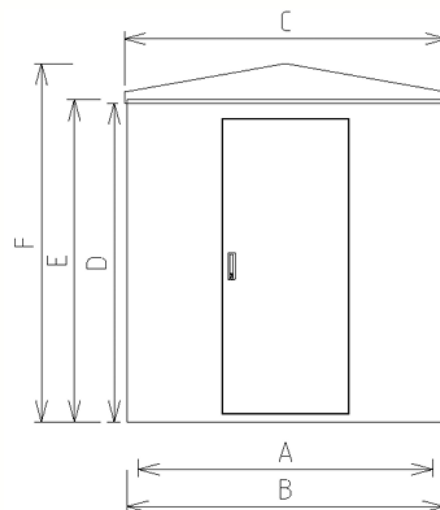
Technical information

Dimensions

Minimum: 1.5 m length, 1.5 m width, 2.3 m height.

Maximum: ∞ length, 1.5 or 2.1 m width, 2.3 m height.

- A. Effective inner width: 1.500 or 2.100 mm
- B. External width (A) +/- 160mm
- C. External width roof (B) +/- 160 mm
- D. Panel height (E) -30mm.
- E. Panel height 2.300 mm
- F. Height roof 2.556 mm



Wall panels composition and structure

Glass fiber reinforced polyester sandwich elements with a 33 mm polyurethane foam core (optional: 40 mm). The outside is smooth and provided with a UV-stabilized gelcoat layer in color. The inside has a light gray topcoat with a fiberglass structure. The wall elements are designed as an intermediate element or a head element.

Doors

- Single or double door
- Door width single: 900 mm
- Door height: 2100 mm
- Fitted as standard with door catcher with catch spring, galvanized
 - Optional stainless steel door catcher
- Threshold height: approx. 70 mm.
 - • Optional: removable threshold
- The exterior and interior finish of door same as the finish of the wall elements

Glass

- Standard double glazing version
- In various sizes and designs
- In wall and/or door panels
- In aluminum profile
- In fixed, rotating, sliding or tilting version

Roof elements

The roof elements are in the same design and construction as the wall elements.

Fittings

- Mounting fittings and hinges in stainless steel 304 version
 - Optional stainless steel 316 version, with the exception of lifting eyes.
- Lock: 3-point anti-panic closure. The lock is suitable for 17mm Euro profile cylinder. Material coated steel.

Foundation

The substrate must consist of a flat and perpendicular steel or concrete foundation, with a maximum height difference of 2 mm. This foundation is preferably laid at a slightly higher level compared to ground level. Delivery of the foundation is done by third parties. Anchoring and sealing on the foundation by means of separately supplied stainless steel anchors and closed cell compressive band. If desired, Poly Products can arrange the mounting of the housing on the foundation

Floor and steel frame

Floor and frame are optionally available. Standard floor load: 250 kg/m² optional till 600kg/m².

Construction:

- Polyester anti-slip or linoleum top layer
- Insulated sandwich floor
- Polyester underlay
- Optional recesses and penetrations.
- Frame is standard in galvanized version
 - Equipped with lifting and mounting lips
 - Optional stainless steel version

Weight

Length x Width x Height (33 mm PU-foam core)

- 1.660 x 1.660 x 2.300 mm: approx. 250 kg
- 1.660 x 2.260 x 2.300 mm: approx. 300 kg
- 2.260 x 2.260 x 2.300 mm: approx. 360 kg

Mechanical properties of polyester

- Tensile strength: 100 Mpa (N/mm²)
- Flexural strength: 120 Mpa
- Modulus of elasticity: 5500 Mpa
- Impact resistance: 35 Kj/m²

Thermal properties

- In 33 mm PU-foam core: $K = 0,66 \text{ W/m}^2.K$
- In 40 mm PU-foam core: $K = 0,51 \text{ W/m}^2.K$

Sound insulation

- Standard: up to approx. 15 dB(A)
 - Optional: up to approx. 30 dB(A)
 - Optional: sound-absorbing grilles and ventilation facilities

Protection class

- Standard: IP54
 - Optional: up to IP56

Chemical resistance

Polyester is standard resistant to most acids and alkalis at temperatures from -30°C to +80°C, with optional higher resistance

Fire behavior

Standard version fire-resistant class 4 according to NEN 6065

- Optional higher fire resistance and lower smoke number

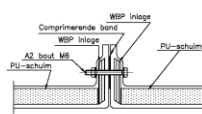
Other options

- Plywood in the walls for mounting purposes
- Electricity and lighting in standard or EEX version
- Ventilation grilles, fans, air conditioners, heating, etc
- Cutouts in roof, wall or floor
- Alternatives in dimensions, special constructions
- Technical calculations regarding ventilation, heating and strength

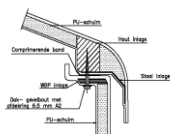
Delivery

The delivery time is approximately 8-10 weeks after receipt of the approved drawing. A PolyShelter housing is pre-assembled. Housing with dimensions up from 4160 mm in length are assembled on site.

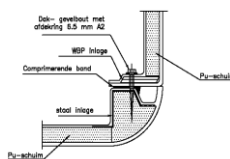
Prices and further specifications available on request.



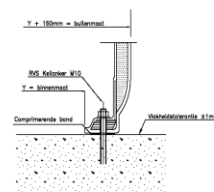
Wall connection/ assembly



Roof connection/ assembly



Corner wall connection/ assembly



Mounting on concrete foundation