



PS STEEL WATERBAR

DESCRIPTION

PS Steel Waterbar is a fully coated galvanised sheet steel with a special surface treatment, with a minimum embedment depth of 30mm, waterproofed construction joints can be realised with a hydrostatic pressure up to 20m (2bar). The product includes a safety line to control the minimum embedment into the concrete. The surface is covered against contamination with four protective foils that are progressively removed before each stage of pouring concrete.

ADVANTAGES

Easy to install and independent of weather

- Omega brackets/stirrups prevent displacement of **PS Steel Waterbar** strip or coil.
- 30mm embedment depth ensures resistance of 2 bar.
- No swelling and no chemical reaction.
- Permanent quality control because of safety line.

APPLICATIONS

PS Steel Waterbar is for use as a sealing system for all construction joints against pressurised and non-pressurised water. The use of **PS Steel Waterbar** at the base of a wall it is possible to have kickerless construction. In combination with shuttering systems it is used as stop end in floor plates, walls and ceilings.

INSTALLATION

PS Steel Waterbar with double-sided coating is installed to the upper reinforcement layer and held in place with **PS Steel Waterbar** Omega bracket/stirrup. Remove the protective film tape of the **PS Steel Waterbar** shortly prior to concreting only. The recommended depth of immersion of the **PS Steel Waterbar** in the fresh concrete is a minimum of 30mm/3cm up to the half width of the **PS Steel Waterbar** (refer to **PS Steel Waterbar** Sealing System/Technical Note).

TECHNICAL DATA - Sheet steel

Sheet steel material	DX 51 D (galvanised)
PS Steel Waterbar height	167 mm
PS Steel Waterbar thickness (complete)	1.4 mm
PS Steel Waterbar length	2 m or 25m
PS Steel Waterbar coating	SBS bitumen
PS Steel Waterbar coating colour	black

INSTALLATION INSTRUCTIONS

PS Steel Waterbar is installed on top of the upper reinforcement by using one Omega bracket/stirrup per metre run for fixing. Connections are made by removing the protective foil, at least 100mm/10cm overlapping, pressing the coated surfaces to each other and fixing with a joint clip. Before casting, the two protective foils (bottom side) have to be removed. The two foils on top are removed before the wall is cast. The minimum embedment depth of 30mm/3cm is achieved when the safety line is fully embedded into the concrete.

- Spread the **PS Steel Waterbar** elements along the joint (2m).
- Roll out the **PS Steel Waterbar** roll (25m).
- For corners and T-joints bend the **PS Steel Waterbar** to suit.
- Remove the lower protective foils (internal and external one).



PRODUCT DATA SHEET

- Place **PS Steel Waterbar** on top of upper reinforcement.
- Fix **PS Steel Waterbar** to reinforcement with one Omega bracket /stirrup per metre run.
- Installation preferably in the middle of the wall section and in between the rising reinforcement.
- Connect **PS Steel Waterbar** elements with each other by overlapping the coated surface at least 100mm/10cm and press against each other without the protective foil in between. Secure with the included joint clips.
- At low temperatures (typically below 5°C), warm the overlapping joints gently with a blow-lamp.
- The minimum embedment depth into the first concrete step is 30mm/3cm.
- Only remove the upper protective foils prior to installation of the wall reinforcement and/or before closing the formwork. The **PS Steel Waterbar** surface has to be clean.

LIMITATIONS

The protective foil on **PS Steel Waterbar** should not be removed until it is necessary. The foil protects against dirt and debris build-up on the coating that would affect the **PS Steel Waterbar** from bonding to the fresh concrete.

SIZE AND PACKAGING

PS Steel Waterbar is 167mm high and 1.4mm thick all over. It is supplied in PUDLO boxes with 50 x 2m lengths per box or as 1 x 25m roll per box. When ordering 2m lengths, these can be packaged differently to suit the smaller quantity. Each packing unit includes a sufficient number of Omega brackets/stirrups and joint clips.

SAFETY

PS Steel Waterbar is inert and free from deleterious materials.

APPROVALS

- ETA-15/0003
- General Building Code Test Certificate P-5120/231/09 MPA-BS

Note: For all fixing information and technical details, please refer to the PUDLO PS Steel Waterbar Sealing System Technical Note for Designers and Installers.