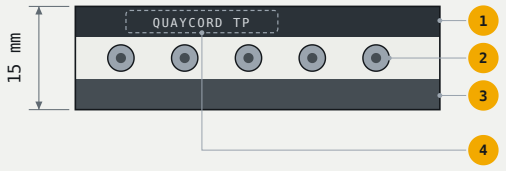
QUAYCORD TP · TRENCH PROTECTION

Trench protection belt

The belt is laid over a precast quay cable trench. One edge is bolted to the quay; the other is lifted by a cable guide on the crane as it travels, then lies down behind it. It replaces hinged steel trench covers.



BELT CONSTRUCTION — QUAYCORD TP, 15 MM, SECTION

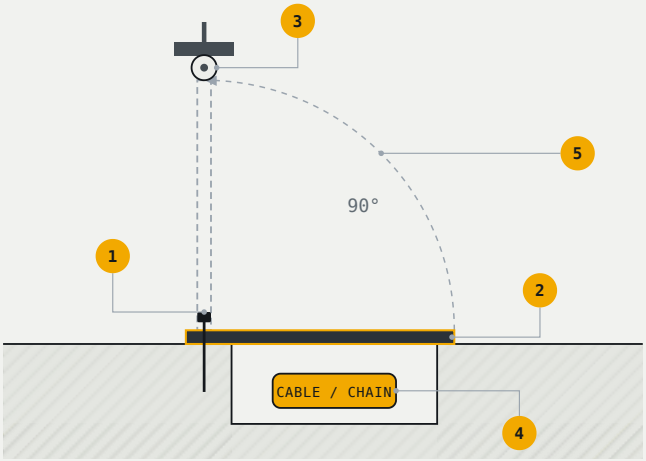
1. Top cover
2. Reinforcement — steel cord shown, fabric also available
3. Bottom cover
4. Type designation moulded into the cover, every 1.5 m

APPLICATION

- Container-crane and gantry-crane cable trenches along the quay
- Protects the cable and chain system running in the trench
- Keeps the trench closed to traffic and debris
- Direct replacement for hinged steel trench covers

WHY RUBBER INSTEAD OF STEEL COVERS

- No hinges, no bearings and nothing to seize up
- More than 400,000 open / close cycles
- Opens through the full 90° as the crane passes
- Type designation moulded in, so it is identified in service



OPERATION — TP BELT OVER A PRECAST QUAY CABLE TRENCH

1. Quay edge of the belt, bolted down
2. Free edge, closed — the trench stays shut to traffic and debris
3. Cable guide on the crane lifts the free edge as the crane travels
4. Cable and chain system running in the trench
5. Belt swings through 90° and lies back down behind the crane

WHAT WE NEED TO QUOTE

The trench drawing — the belt is moulded to the site trench design · trench clear width and depth · run length · the cable guide arrangement on the crane · grade required, STD, FR, AS, AR or HT · quantity and delivery date. A photo of the existing covers is usually enough to start.

QUAYCORD TP · SPECIFICATION

Specification and marking

Nominal values. The belt is moulded to the site trench design, so a trench drawing is required before quotation.

PARAMETER	DATA
Thickness	15 mm standard, to order
Width	300 to 600 mm, to order
Reinforcement	Steel cord or fabric
Opening angle	90°
Fatigue life	More than 400,000 open / close cycles
Temperature	−30 °C to +80 °C in service
Supply	50 m or 100 m rolls, or fixed cut lengths
Options	Wear-resistant, flame-retardant, anti-static, oil- and chemical-resistant covers

TYPE DESIGNATION

QUAYCORD ST1600 – 2000 – 17

QUAYCORD	Brand
ST1600	Construction and rated N/mm
2000	Width, mm
17	Thickness, mm

An optional grade suffix follows the thickness: FR, AS, AR or HT. STD carries no suffix.

GRADE SUFFIX

FR	Flame retardant
AS	Anti-static
AR	Abrasion resistant
HT	Heat resistant

MOULDED LEGEND

Legend position	Centred on the top cover
Character height	60 mm (40 mm on narrow belts)
Relief	1.0 mm raised
Minimum stroke	4 mm
Repeat	Every 1.5 m along the belt

THE REST OF THE RANGE

QuayCord also covers steel cord conveyor belt (ST, to DIN 22131), sidewall conveyor belt (SW) and fabric conveyor belt (FB) for bulk handling, and quay and berth facing (QF) made to the berth drawing. Specifications for those are in the QuayCord Product Catalogue, Edition 1.

Notes. Drawings are schematic and not to scale; the belt is moulded to the site trench design and a drawing is required. Moulding values for the legend are proposals, to be confirmed with the mould maker before production. QuayCord™ is a brand of Portcrane.GROUP, which inspects the manufacturer and the product before shipment. Specifications are nominal and subject to confirmation on quotation.