## Installation Guidelines

The dimensioning of the lateral concrete surrounding (x) must be adapted to local site conditions. The overlap from channels end has to be min. 15cm. In cases where the connection between subgrade and lateral concrete surrounding of the channel is avoided for example by expansion joints, then dowel bars made of Ø8 mm reinforced steel have to be installed every 30 cm.

The concrete grades indicated are minimum values. Requirements related to the location of installation, such as resistance to freeze—thaw with de—icing salts, must be taken into account by choosing the appropriate concrete grade in accordance with local restrictions respectively.

With complete concrete surrounded channels system, BIRCO recommends a fully sealing of the channel joints, so as to prevent damage through freeze — thaw conditions (see jointing information!)

It must be ensured that installation is performed expertly, taking into account concrete technology aspects.

All adjoining pavement surfaces must run permanently at a level of approximately 3 to 5 mm higher than the upper edge of the channel. In order to achieve this, we recommend laying the first two to three rows of block paving or paving slabs in a mortar bed. Because there is no concrete encasing, the surfacing can run right up to the channel. In the case of block paving or paving slabs being used as the adjoining surfacing, a durable sealing joint of approx. 10 mm must be established between the channel and the surfacing. The joints between the first two to three rows of the block paving or paving slabs must be sealed durably in a tight and impermeable manner. It must be ensured that horizontal forces, which may result from the expansion or shifting of the pavement, have no impact on the two to three rows of pavement set in the mortar bed.

Expansion joints in the construction parts adjoining the channel must be planned on the basis of engineering considerations. BIRCO recommends arranging expansion joints parallel to the channel, at a distance of approximately 1m - 2m from the channel line. Expansion joints running transverse to the channel line must be arranged so that they run through a channel joint. We recommend arranging them every 8 to 12 metres (in accordance with DIN 18318, valid edition). The expansion joints (e.g. PE foam sheets) must cover the total cross—sectional area of the channel, as well as the full area of the concrete base and the lateral concrete encasing.

#### Jointing Information

Sealing of the channel joint / safety seam with SF—Connect after the laying of the drainage <u>channels.</u>

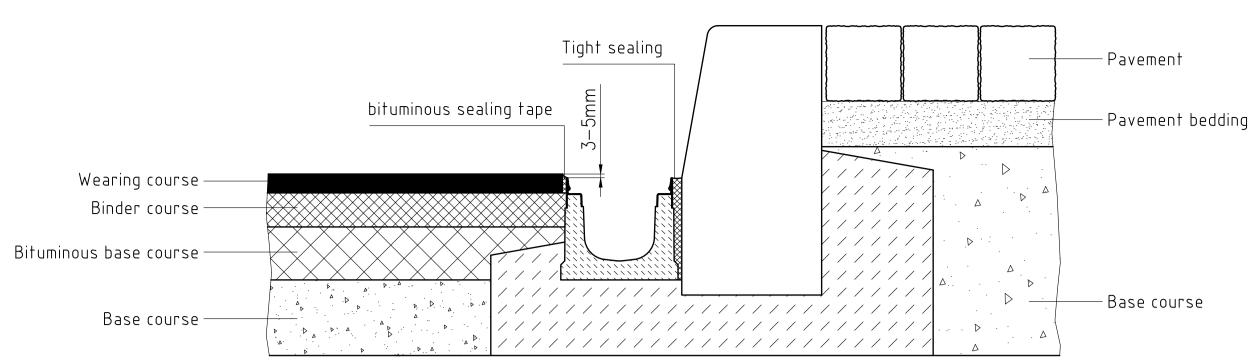
Areas of application: Adhesion of concrete, clinker, steel, stainless steel, aluminium, polyester (GFK), PVC, acrylic, polystyrene, glass, wood.

## <u>Properties:</u>

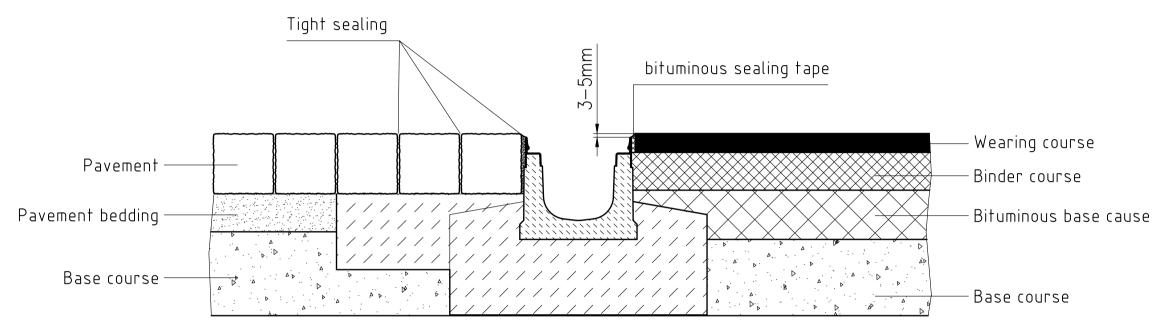
Coated bases must be inspected in advance for adhesion and compatibility. The hardening period depends on the temperature and moisture. Higher temperatures reduce the drying period time. SF—Connect does not contain solvents, isocyanate or silicones and does not require special warning labelling. Prior to beginning the work, it is necessary to make oneself familiar with the handling and safety instructions by reading the material safety data sheet.

# Sealing Instructions:

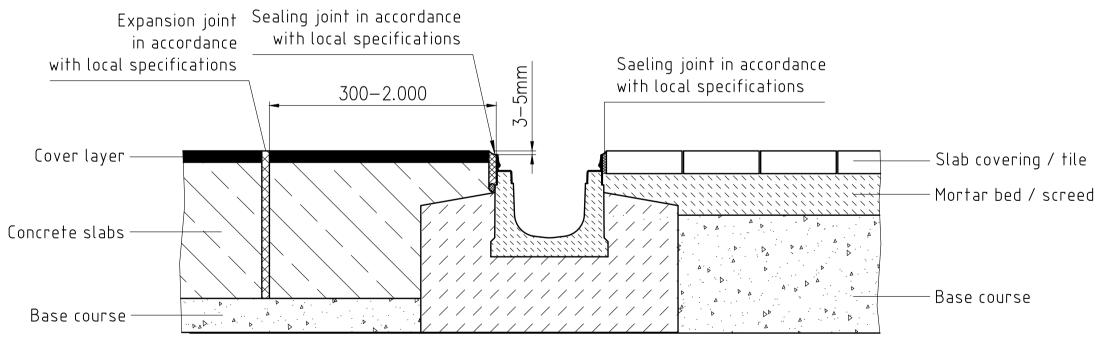
- 1. Use the industrial grouting pistol (item code 608500) to apply the sealant to the channel joint / safety seam.
- 2. Prior to applying the sealant to the safety joint, clean the channel end / safety seam and remove separating agents, dust, soiling, oil and other residues that could inhibit adhesion.
- 3. Wear protective gloves and eyewear when conducting the work.
- 4. Insert the tubular bag (600 ml) into the industrial grouting gun.
- 5. Inject the SF-Connect into the joint.
- 6. Then smooth out the channel joint / safety seam surface with a jointer or putty knife that has been dipped in a soap solution.
- 7. Allow material residue to dry. Dried residue can be disposed of as residual waste.



Constructed in accordance with local specifications using non-settling frost-free sub-bases (E.g. RSTO)



Constructed in accordance with local specifications using non—settling frost—free sub—bases (E.g. RSTO)

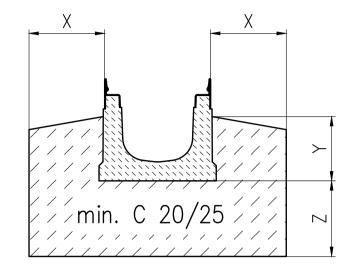


Constructed in accordance with local specifications using non-settling frost-free sub-bases (E.g. RSTO)

#### Additional regulations and guidelines

Local particularities have to be examined and taken into account by the planner. Installation must comply with the latest international/local regulations and guidelines.

+ The correct load class in accordance with DIN EN 1433 "Drainage channels for vehicular and pedestrian areas"has to respected.



X [mm]	Y [mm]	Z [mm]
≥80	H -50	≥80
≥100	H -50	≥100
≥150	H -50	≥150
	≥80 ≥100	≥80 H −50 ≥100 H −50

Values depending on the adjacent surface layer More information at www.birco.de

	1	W									
Pos.	kommt vor	Änder Nr.		Änderung					Datum	Name	gepr.
Allgemeintoleranz			Мав	bis 6	>6-30		>30-120	>120-400		>400-1000	
DIN 7168 m			Tol.	+-0,1	+-	-0,2 +-0,3 +-		-0,5	+-0,8		
Werkstückkanten n. DIN ISO 137 15 Oberflächenzeichen nach ISO 1302											
Vertro	Vertraulichkeit dieser Unterlage ist zu wahren. Schutzvermerk DIN 34 beachten										
	BIRCO GmbH										
	BIRCO Herrenpfädel 142										

E	BIRCO	3	Herrenpfädel 142 76532 Baden-Baden					
	Datum	Name	Objekt-Nr.:		Kunden-Nr.:			
gez.	21.09.2022	ga	installation in:	etrueti	ione			
gepr.	21.09.2022	mr						
ges.			BIRCOslim NW	_100 .	/ NW 150			

Load class A15 — C250 Maßstab: 1:5 J:\ACAD\Einbau\EN1433\slim\24946