

The subgrade has to be compacted to an $EV_2 > 45 \text{ MN/m}^2$, if the concrete base has an overlap of $> 50 \text{ cm}$ from channels end. Otherwise, it has to be compacted to an EV_2 of $> 180 \text{ MN/m}^2$, or it must be ensured that in case of heavy trucks circulation an overlap of $> 50 \text{ cm}$ from channels end is guaranteed

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.

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

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.

Sealing of the channel joint / safety seam with SF-Connect after the laying of the drainage channels.

Properties:

Working Instructions:

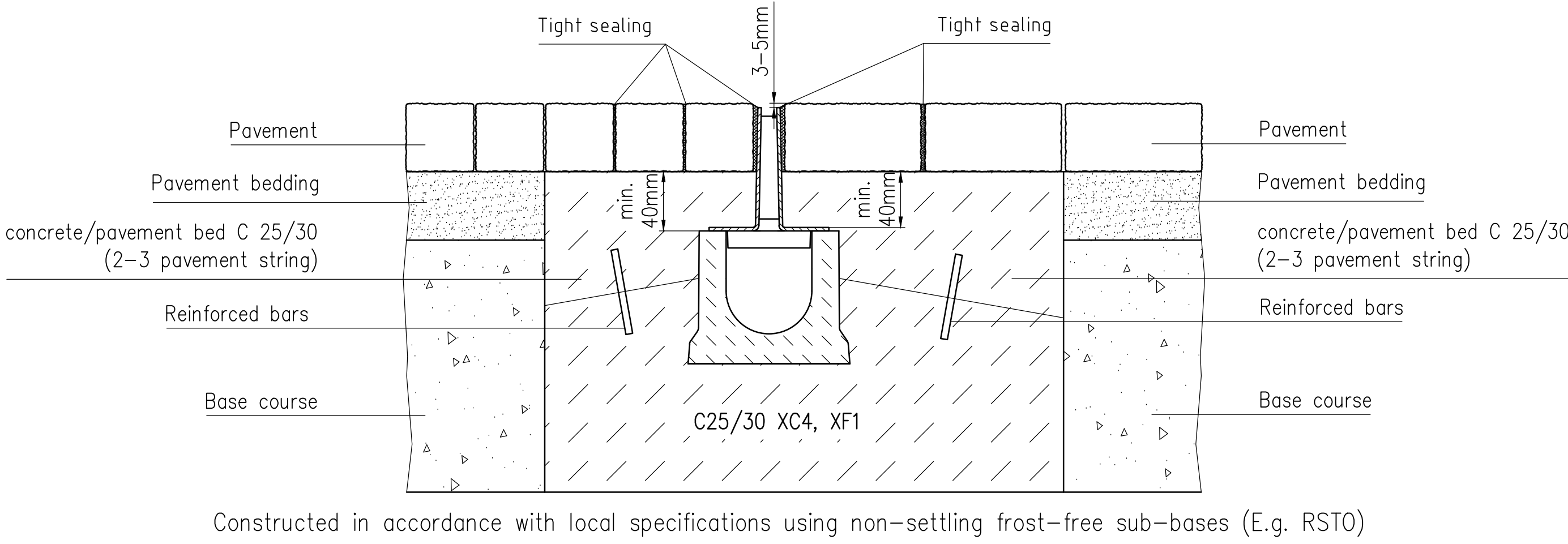
1. Use the industrial grouting pistol (item code 608500) to apply the sealant to the channel joint / safety seam.
2. Prior to applying the sealant to the safety joint, clean the channel end / safety seam and remove separating agents, dust, soiling, oil and other residues that could inhibit adhesion.
3. Wear protective gloves and eyewear when conducting the work.
4. Insert tubular bag (600 ml) into the industrial grouting gun.
5. Inject SF-Connect into 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.

For screw fastening of the gratings, torque moments are to be set at $M_{12} = 60 \text{ Nm}$, $M_{16} = 100 \text{ Nm}$. The bolts must be re-tightened at regular intervals.

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 be respected.

class A 15 - E 600



Pavement

Pavement bedding

concrete/pavement bed C 25/30
(2-3 pavement string)

Reinforced bars

Base course

Tight sealing

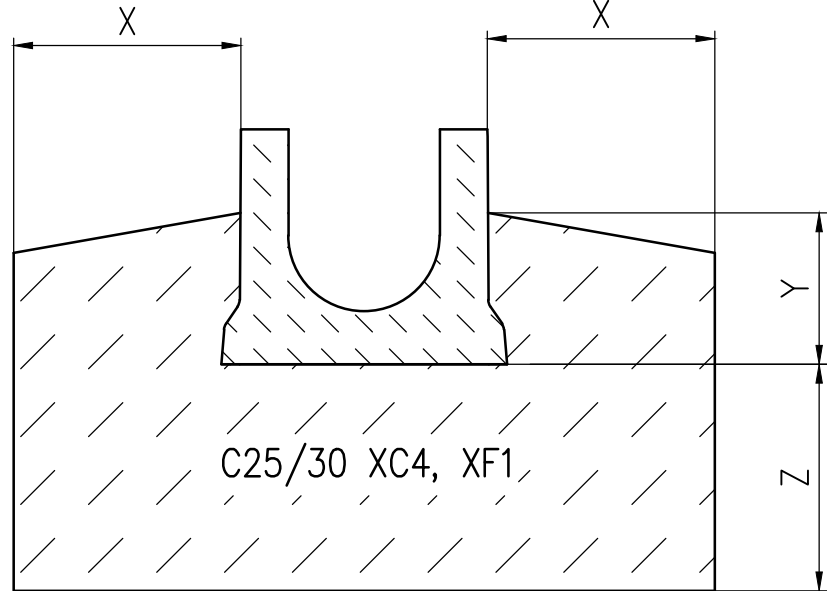
5-5mm

min. 40mm

C25/30 XC4, XF1

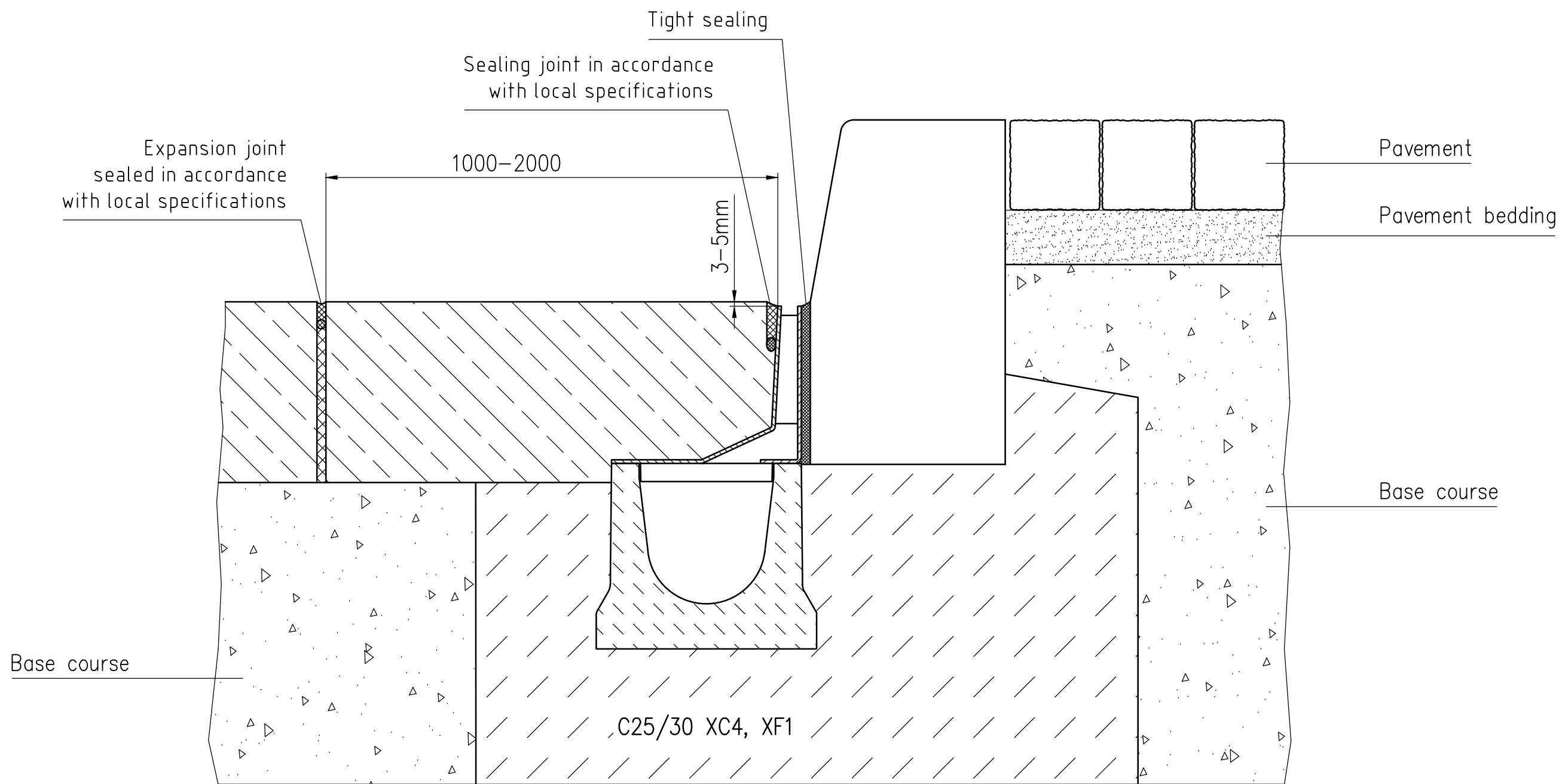
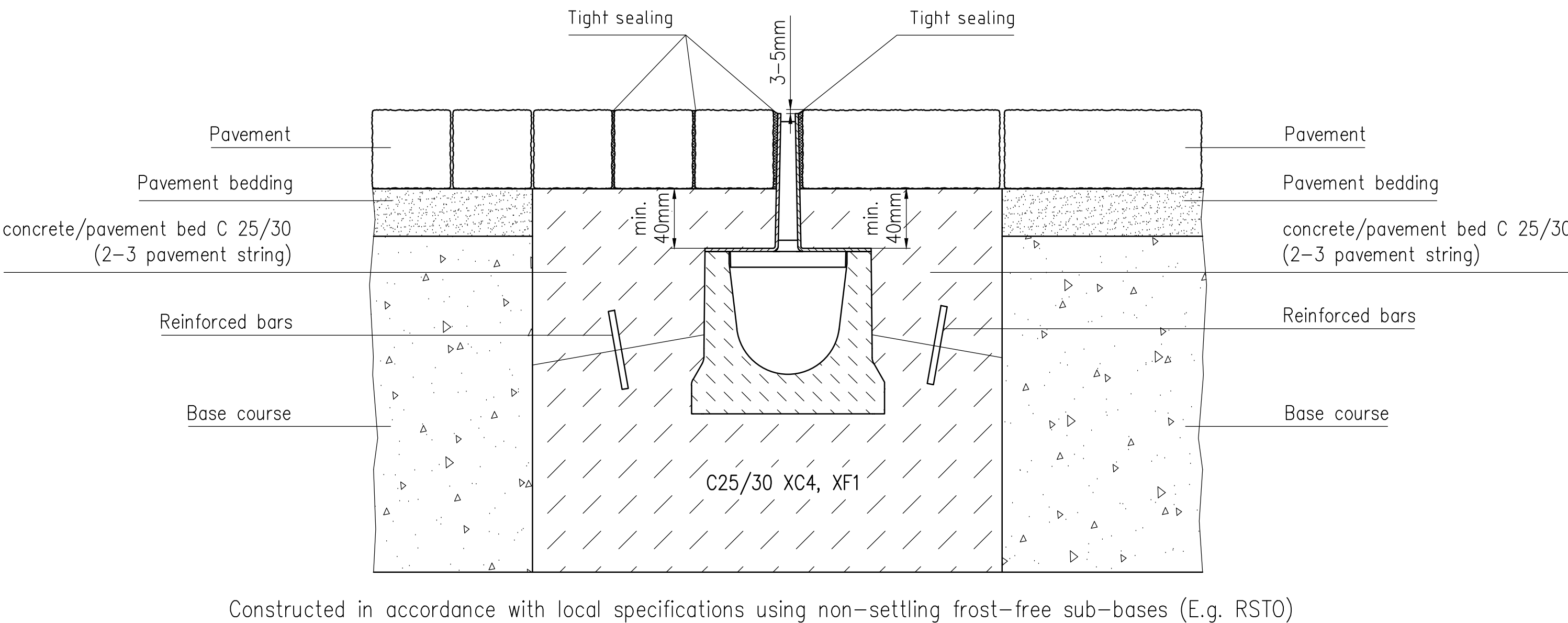
Facade

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

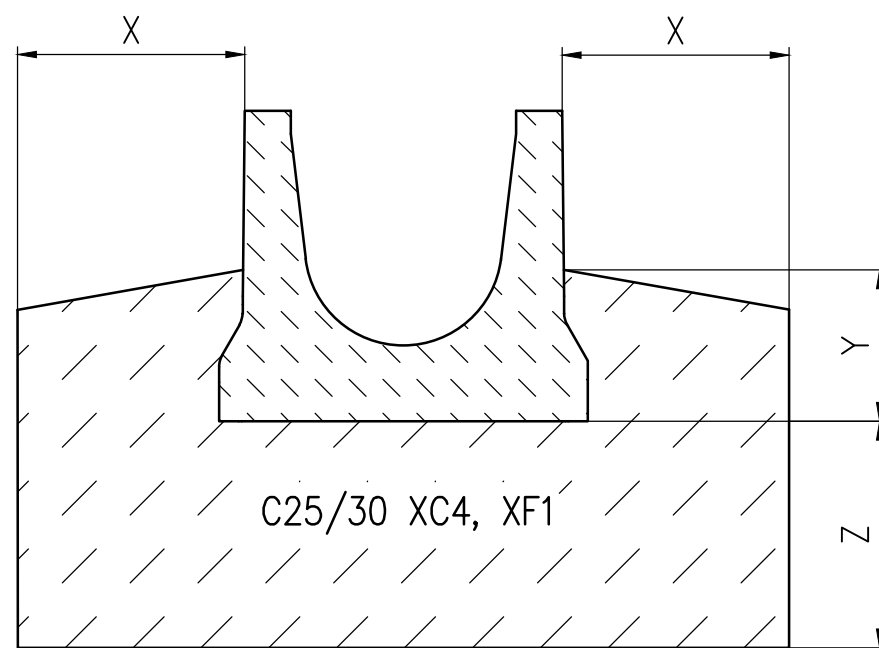


| Load-class | X [mm] | Y [mm] | Z [mm] |
|--------------|-----------|-----------|-----------|
| A 15 - E 600 | ≥150 | ≥100 | ≥150 |




class A 15 – E 600



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



| Load-class | X [mm] | Y [mm] | Z [mm] |
|--------------|-----------|-----------|-----------|
| A 15 – E 600 | ≥150 | ≥100 | ≥150 |

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| a | 2 | 7210 | siehe Änderungsanweisung | 27.02.23 | ga | mr |
| Pos. | kommt von | Änder. Nr. | Änderung | Datum | Name | gepr. |
| Verfälschtheit dieser Unterlage ist zu wahren, Schutzvermerk DIN 34 beachten. | | | | | | |
|  <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <p>BIRCO GmbH Herrenpfad 142 76532 Baden-Baden</p> </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <p>Berechnung: Installation instructions  slotted steel covers NW100/150/200 material thickness 4mm, Cl.A15-E600 Zeichn. Nr.  1-5 a VACAO (FENAU) Schill-zusatz1 21246_EN</p> </div> <div style="display: inline-block; vertical-align: top; margin-left: 20px;"> <p>GAD A</p> </div> | | | | | | |
| Print-Datum: | | | | | | |