

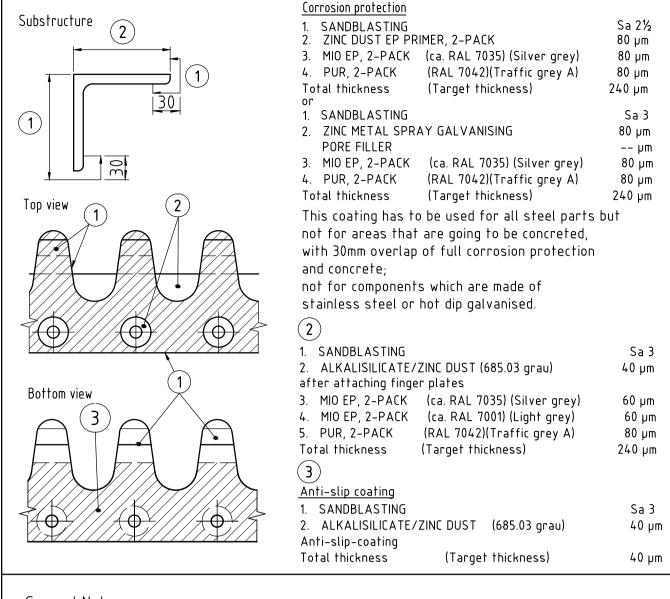
Typical example of corrosion protection for expansion joint type RSFD-B:

Corrosion protection according to DIN EN ISO 12944, system-Nr. A4.15 (zinc metal spray galvanising

for the first layer system-Nr.A8.01). Corrosivity category: C4, expected durability H (High).

Sandblasting using only angular mineral blasting material e.g. corund, maximum size 20 to 24.

Target surface roughness: Rz min. 60 µm, alternatively min. Elcometer-roughness 2.



## <u>General Notes:</u>

1. Static calculation of load bearing parts (finger plates, bolts, substructure, anchorage)

in accordance with RVS 15.45 and AASHTO.

2. The position of the downspout in the drainage channel can be freely chosen.

3. Diamond pattern on the surface is optional.

4. All dimensions are in millimeters.

## Movement capacities

| longitudinal | transverse | vertical |
|--------------|------------|----------|
| 200 mm       | ±2 mm      | ±5 mm    |

## <u>Installation Procedure:</u>

1. Preparation of the Joint Gap (recess):

The recess must be dimensioned to suit the size and shape of the expansion joint.

2. Lifting in of joint:

The prepared joint is carefully lifted into position, and temporarily supported.

3. Adjustment and fixing of the expansion Joint:

In the near vicinity of the recess, level reference points should to be marked (to be arranged by the Contractor/Engineer). In this way the exact height adjustment of the expansion joint on the

structure can be guaranteed.

Then the expansion joint is adjusted exactly in longitudinal and transverse direction and in height. It should also be ensured, that the expansion joint is installed with the same longitudinal incline as the bridge surface.

4. Fixing of the first side:

A provisional connection between the anchor loops of the expansion joint and the

bridge reinforcement is made by welding.

Then the reinforcement is placed and welded to the joint until all parts are firmly connected.

The expansion joint is sufficiently secured when no noticeable

vibrations occur when the joint is shaken or walked upon.

5. Fixing of the second side:

First the presetting of the joint has to be checked for the last time and adjusted if necessary. The procedure is similar to that at the first side. The expansion joint is fixed (temporarily) as quickly as possible to the bridge reinforcement.

Attention: Directly after the provisional fixing of the second side, the bolts of the installation beams are loosened. This allows the expansion joint to freely follow the movements of the structure. 6. Shuttering plates:

The shuttering plates are then installed in such a manner that they seal the joint gap properly.

Before pouring the concrete, the joint should be covered to protect it from dirt, and the gap must be thoroughly watered to ensure it does not take too much water from the fresh concrete.

The applied concrete is vibrated. When completed, the concrete must be flush with the top of the joint.

|          |                  |                | •            |      |          | •        | •        |
|----------|------------------|----------------|--------------|------|----------|----------|----------|
| 1        | Carriage         | way anchor     | 255×200      | 5    | S235     | JRG2     |          |
| 1        | Drainage channel |                | t=5          | 4    | EPDM     |          |          |
| 1        | Edge be          | am             | L 140×140×14 | 3    | S235J2G3 |          |          |
| 1        | Bolt             |                | M16x60       | 2    | 8.8 hdg  |          |          |
| 1        | Finger plate     |                | 277×40×818   | 1    | S355J2G3 |          |          |
| ANZ.     |                  | BENENNUNG      | DIMENSIONEN  | POS. | MA       | TERIAL   | ARTIKEL  |
| 00       | 04.12.2009       | Tender Drawing |              | LY   |          | BU       | GM       |
| Revision | Date             | Description    |              | Pre  | pared    | Reviewed | Approved |
|          | ·                |                |              |      |          |          |          |

| 0.0       | 04.12.2009 | lender Drawing       |   | LY       | IRO            | GIYI                                      |  |  |
|-----------|------------|----------------------|---|----------|----------------|---|--|--|
| Revision  | Date       | Description          |   | Prepared | Reviewed       | Approved                                  |  |  |
| SOL       |            |                      | SOLISTRASSE 68  |          | Article-No.:   |   |  |  |
|           |            | UGUA TEL             | 8180 BÜLACH-SWITZERLAND<br>TEL. +41-44-872 40 50 / FAX +41-44-872 40 59<br>mageba@mageba.ch - www.mageba.ch |          |                | General tolerances<br>according ISO 2768- |  |  |
| Client:   |            |                      |   |          | Scale:         | Weight:                                   |  |  |
| Project:  |            |                      |   |          | 1:33,20,10,7,5 | 195 kg/m                                  |  |  |
| Structura | TENCA      | - FINICED DOED D 000 | Location:   | P-No.:   |                | Sheet-No.:                                |  |  |

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Tensa Finger RSFD B 200-A1 Tender drawing