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| DATA SHEET | BRIDGE ELEMENTS | MG, MGK |
| BRIDGE CORNICE | MG, MGK | |

1. Name of product:

„ANCOR” BRIDGE CORNICE, TYPE MG, MGK

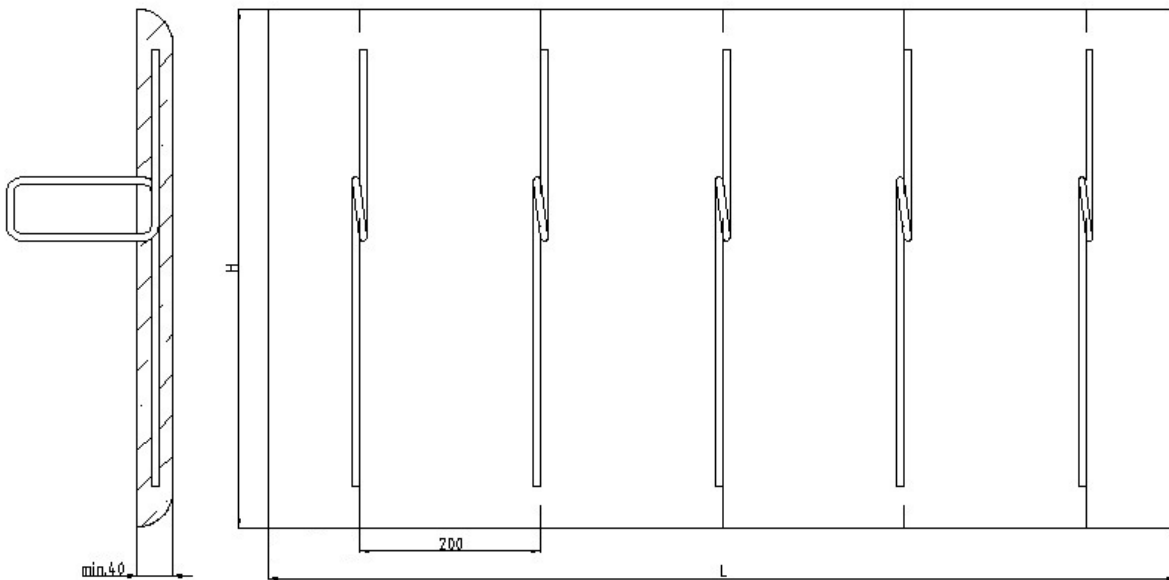


Fig. 1 - Example of flat bridge cornice

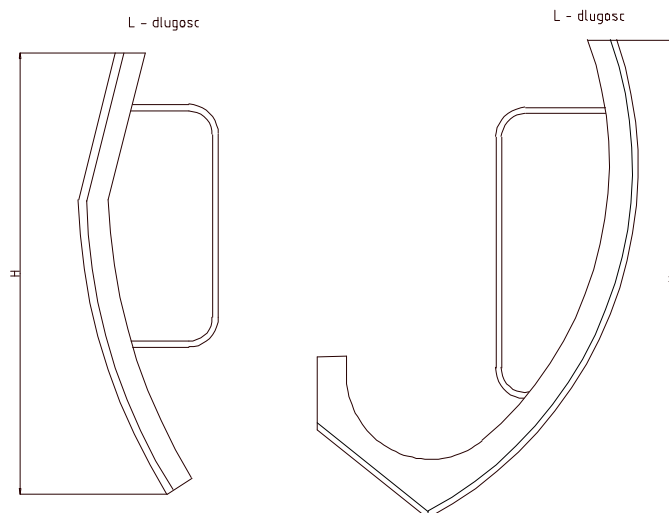


Fig. 2 – Example of profiled bridge cornice

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2. Classification of product:

23.61.12.1

3. Related documents:

National Technical Assessment no. IBDiM-KOT-2017/0004 – edition 1 – Prefabricated cornices of polymerconcrete for bridge structures.

4. Purpose of product:

Prefabricated bridge cornice is an element of the bridge facility equipment which constitutes the outer liner of bridge supporting structure. It can be also used as a formwork. Intended for protection of the concrete, steel or ferroconcrete elements of bridge against destructive infiltration of chemically active water solution.

5. Description of product:

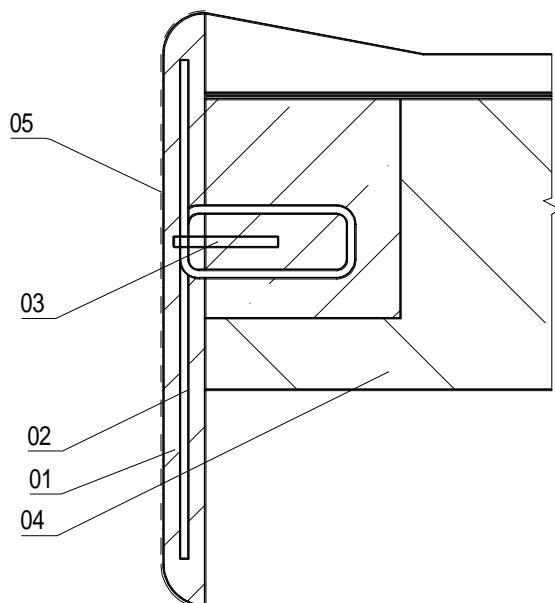
Flat bridge cornices (Fig. 1) or profiled bridge cornices (Fig. 2) are made of polymerconcrete. The cornices are able to be cut on a construction site depending on demand e.g. to lay on lantern brackets which constitute so-called balcony of bridge lighting lanterns.

Outer surface may be covered with resin gelcoat in various colors as per RAL palette.

The elements do not require to use reinforcement which is standard for ferroconcrete.

6. Principles for installation:

Cornices are fastened to the supporting structure by the shackles made of steel as per the Technical Specification (Fig. 3).



- 01 – Cornice
- 02 – Anchoring steel reinforcement
- 03 – Anchoring resin rod
- 04 – Ferroconcrete plate (Pavement cover)
- 05 – Outer liner colored as per the RAL palette

Fig. 3 – Installation of a cornice using the shackles

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In case of renovation of bridge facilities, the bridge cornices are also allowed to be used and fastened to the support plate by bolts - glued or expanded (Fig. 4,5,6).

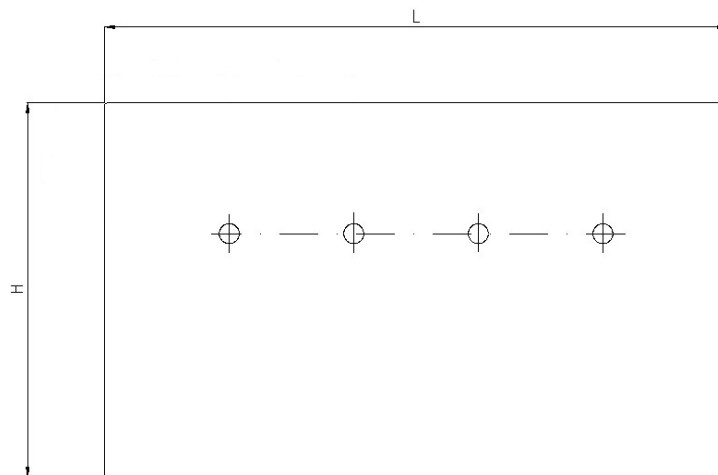


Fig. 4 – Example – location of bolts

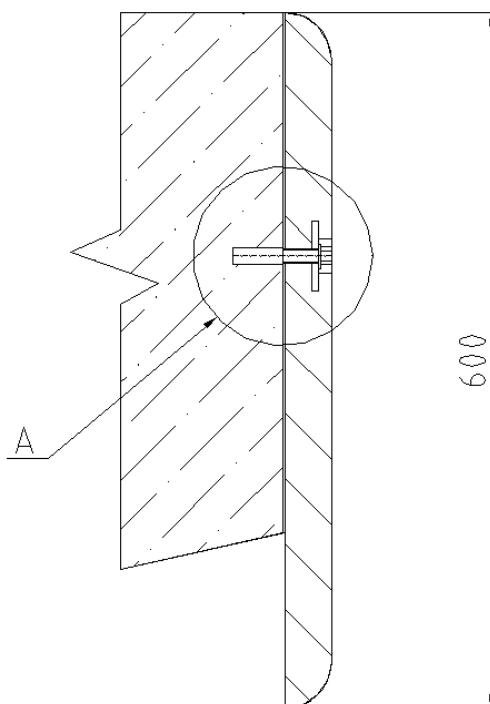


Fig. 5 –Fastening of a cornice by bolts

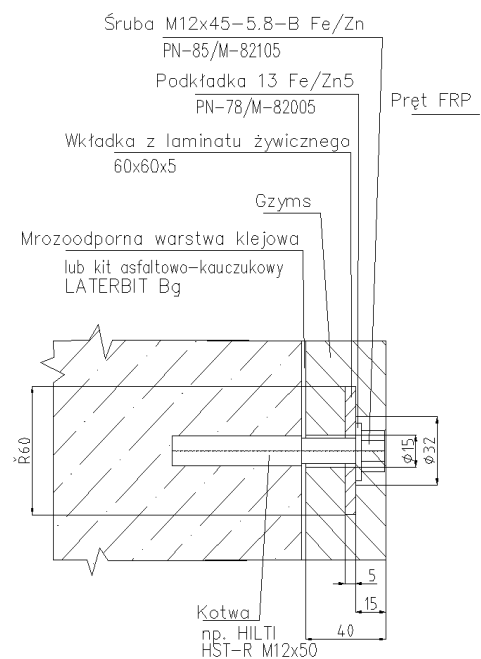


Fig. 6 – Details of fastening

7. Parameters of bridge cornices:

Height $\geq 100\text{mm}$

Thickness $\geq 40\text{mm}$

Length $^* \leq 1000\text{mm}$

* - standard length, for some types may be $> 1000\text{mm}$.

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8. Properties of polymerconcrete

Table 1 indicates the requirements on properties of polymerconcrete that the bridge cornices type "ANCOR" are made of :

Tablica 1

| Item | Properties | Unit of measure | Requirements | Methods for tests as per : |
|------|-----------------------------|-----------------|--------------|----------------------------|
| 1 | Compression strength | MPa | ≥ 80 | PN EN 12390-3 |
| 2 | Tensile strength by bending | MPa | ≥ 20 | PN EN 12390-5 |
| 3 | Absorbability | % | $\leq 0,20$ | PN EN 13369 |
| 4 | Frost-resistance | | $\geq F 200$ | PN-88/B-06250 |