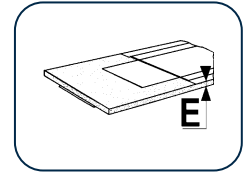


**PLAKA - SLIDE BEARING**

**Sliding strips**

REF 07.05.01 - Version V01 - 17/08/2020



**Description**

Two sliding sheets (**2G**) are separated with a lubricant layer ensuring the slippage of the sheets. The irregularities and the surface roughness are absorbed by a covering consisting of 1 or 2 polystyrene (**1P/2P**) or elastomeric (**1N/2N**) layers.

**Application fields**

The slide bearings are used for the separation of :

- floor slabs and/or concrete walls
- steel supports.

They ensure a free expansion while reducing the horizontal reaction loads.

**Properties**

**Mechanical properties of the various components**

| <b>Characteristics of the sliding sheets (2G)</b> |  |
|---|--|
| Material :  | Hard PVC                                     |
| Thickness :                                       | 300 µm, tolerance ± 5 %                      |
| Specific weight :                                 | 1,38 g/cm <sup>3</sup>                       |
| Tensile strength :                                | > 470 N/mm <sup>2</sup>                      |
| Vicat temperature VDE 0302 :                      | 79°C ± 2°C                                   |
| Lubricant :                                       | Siliconfett 300 (Oil methyl phenyl silicone) |
| Friction coefficient :                            | 0,08 %                                       |
| Permissible load :                                | 3 N/mm <sup>2</sup>                          |
| <b>Characteristics of the elastomer (N)</b>       |  |
| Colour :  | Black  |
| Basis of polymer :                                | SBR  |
| Specific weight :                                 | 1,30 – 1,35                                  |
| Hardness Shore - A                                | 65°±5°                                       |
| Tensile strength :                                | > 6 MPa                                      |
| Elongation at break :                             | > 300 %                                      |
| Damping elasticity :                              | > 20 %                                       |
| Operating temperature :                           | from -25°C to +75°C                          |
| <b>Characteristics of the polystyrene (P)</b>     |  |
| Material :  | Polystyrene                                  |
| Specific weight :                                 | From 50 to 200 kg/m <sup>3</sup>             |
| Tensile strength :                                |  |
| Longitudinal :                                    | 2,1 N/mm <sup>2</sup>                        |
| Transversal :                                     | 1,6 N/mm <sup>2</sup>                        |
| Elongation at break :                             |  |
| Longitudinal :                                    | 17 %   |
| Transversal :                                     | 8 %  |
| Water absorption (12 days) :                      | from 0.6 to 0.8 % Vol                        |
| Thermal conductivity :                            | from 0.029 to 0.034 W/m.K                    |
| Operating temperature :                           | from 60°C to 70°C                            |
| Permissible load :                                | 1 N/mm <sup>2</sup>                          |

**Section - Construction**

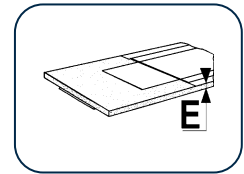
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**PLAKA - SLIDE BEARING**

**Sliding strips**

REF 07.05.01 - Version V01 - 17/08/2020



| TYPE           | Section | Construction  |
|----------------|---------|---|
| <b>2G</b>      |         | Two sliding sheets ( <b>2G</b> ) with a layer of lubricant ensuring the slippage.   |
| <b>1P / 2G</b> |         | Two sliding sheets ( <b>2G</b> ) with a layer of lubricant ensuring the slippage. The irregularities and surface roughness are absorbed by a covering layer consisting of polystyrene ( <b>1P</b> ). The other contact surface has to be completely smooth. |
| <b>2P / 2G</b> |         | Two sliding sheets ( <b>2G</b> ) with a layer of lubricant ensuring the slippage. The irregularities and surface roughness are absorbed by a covering consisting of 2 layers of polystyrene ( <b>2P</b> ).  |
| <b>1N / 2G</b> |         | Two sliding sheets ( <b>2G</b> ) with a layer of lubricant ensuring the slippage. The irregularities and surface roughness are absorbed by a covering consisting of 1 layer of elastomer ( <b>1N</b> ).   |
| <b>2N / 2G</b> |         | Two sliding sheets ( <b>2G</b> ) with a layer of lubricant ensuring the slippage. The irregularities and surface roughness are absorbed by a covering consisting of 2 layers of elastomer ( <b>2N</b> ).  |

**Dimensions**

| Dimensions and materials |         |      |       |                   |   |                           |                     |       |        |
|--------------------------|---------|------|-------|-------------------|---|---------------------------|---------------------|-------|--------|
| Drawing                  | Code    | E mm | m/Box | Kg/m <sup>2</sup> | Application                                 | Unevenness bottom surface | $\sigma_M$          | $\mu$ | Length |
|                          | BSS2G   | 1    | 2.50  | 0.80              | Steel structure                             | < 0 mm                    | 3 N/mm <sup>2</sup> | 0.10  | 1.25 m |
|                          | BSS1P2G | 4    | 1.25  | 1.00              | Poured concrete floor slab on concrete wall | < 0.5 mm                  | 1 N/mm <sup>2</sup> | 0.10  | 1.25 m |
|                          | BSS2P2G | 7    | 1.25  | 1.20              | Precast floor slab on concrete wall         | < 0.5 mm                  | 1 N/mm <sup>2</sup> | 0.10  | 1.25 m |
|                          | BSS1N2G | 3    | 1.00  | 3.20              | Poured concrete floor slab on concrete wall | < 0.1 mm                  | 3 N/mm <sup>2</sup> | 0.08  | 1.0 m  |
|                          | BSS2N2G | 5    | 1.00  | 5.60              | Precast floor slab on concrete wall         | < 0.1 mm                  | 3 N/mm <sup>2</sup> | 0.08  | 1.0 m  |

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