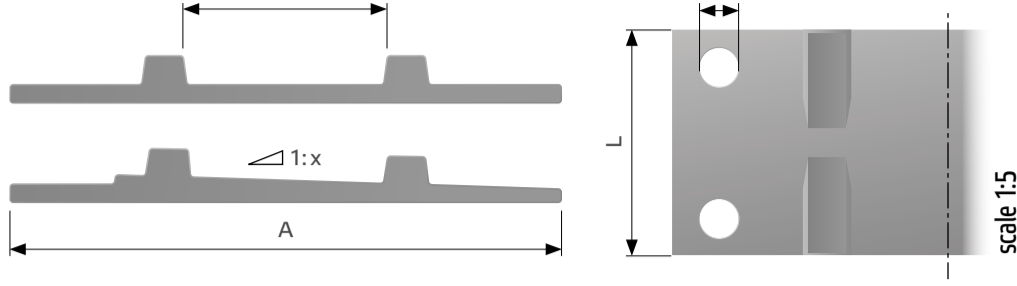


ACCESSORIES FOR RAILWAY SUPERSTRUCTURE

We produce and supply railway accessories and rails for railway and tram lines, as well as for mining and farm railways.

COMPONENTS FOR RAILWAY AND TRAMWAY TRACKS

RIBBED BASE PLATES

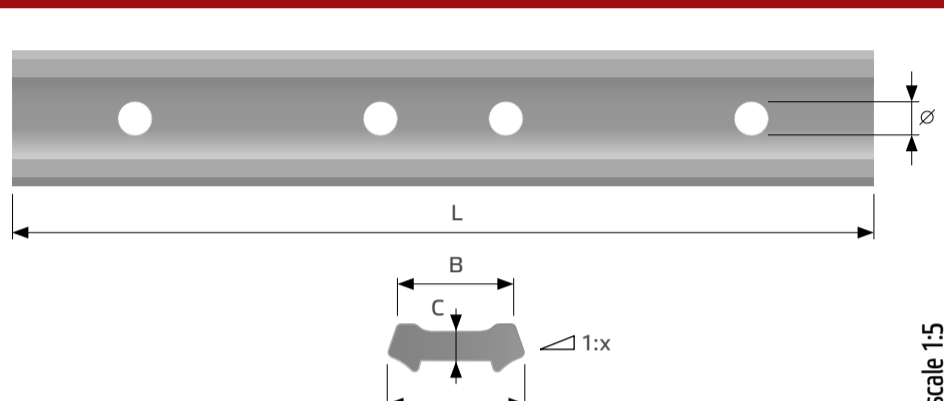


| TECHNICAL SPECIFICATIONS | | | | | | |
|--|-----|------|------|------|---|-------------|
| Application for rails with foot width (mm) | 125 | 46E1 | 49E1 | 49E5 | A - Width (mm) | 345 - 380 |
| | | 54E2 | 54E3 | 54E4 | B - Chamber (mm) | 127 - 152 |
| | 140 | 50E6 | 54E1 | | L - Length (mm) | 110 - 440 |
| | | 60E1 | 60E2 | R65 | Inclination $\triangle 1:x$ | 0 1:20 1:40 |
| | 150 | P65 | | | Diameter of holes (mm) | 21 - 44 |

- > The production based on the exact specification by agreement with the customer.
- > We can produce flat ribbed base plates and base plates with an inclination, symmetrical or asymmetrical base plates.
- > The cutting of base plates profile is done by sawing.
- > The holes are drilled. The slot for T-head bolt is milled.

| GUARANTEED PROPERTIES OF MATERIAL | | | |
|-----------------------------------|---------------|----------------------------|-------------------|
| Material | S275JR | Elongation | min. 23 % |
| Standard | EN 10025 | Content of elements | 0.24 % C |
| Tensile strength | 410 - 560 MPa | | max. 0.045 % P, S |

FISHPLATES

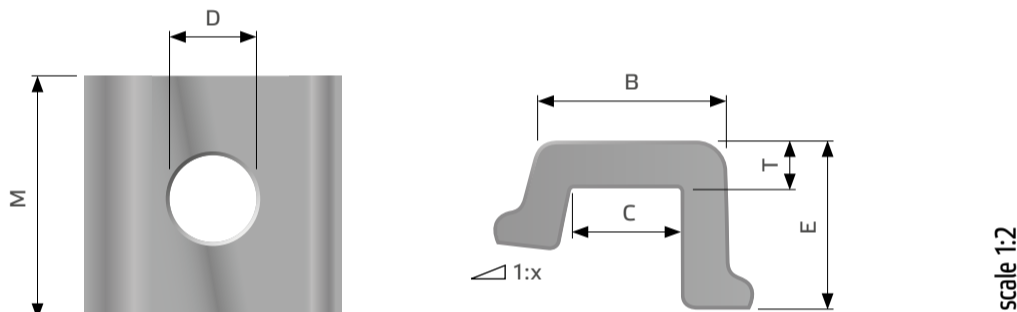


| TECHNICAL SPECIFICATIONS | | | |
|---|-----------------|---------------------------------------|---------------|
| A (mm) | 80.80 - 137.25 | L - Length (mm) | 263 - 1000 |
| B (mm) | 64.40 - 127.35 | Diameter of holes (mm) | 24 - 31 |
| C (mm) | 17 - 40 | Weight (kg/m) | 7.57 - 31.34 |
| Inclination $\triangle 1:x$ | 1:2.75 - 1:6.67 | Cross section (cm²) | 15.36 - 42.93 |

- > We produce fishplates sawn and drilled.

| GUARANTEED PROPERTIES OF MATERIAL | | | |
|-----------------------------------|-------------------|-------------------|--|
| Material | R200 | S355JR | |
| Standard | EN 13674 | EN 10025 | |
| Tensile strength | min. 680 | 470 - 630 MPa | |
| Elongation | min. 14 % | min. 22 % | |
| Content of elements | 0.38 - 0.62 % C | 0.27 % C | |
| | max. 0.040 % P, S | max. 0.045 % P, S | |

CLIPS



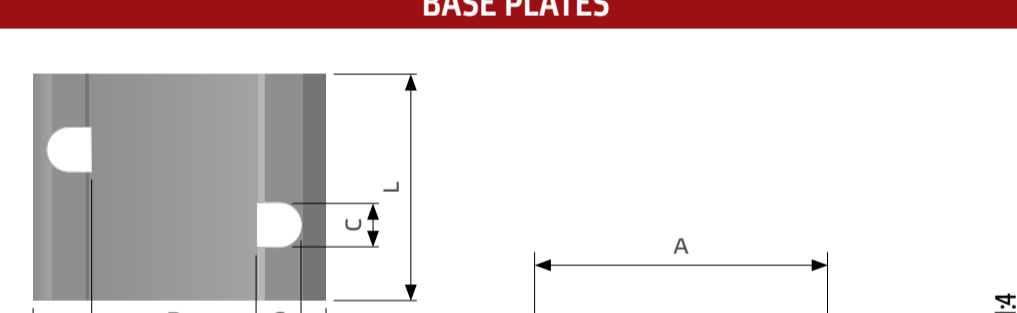
| TECHNICAL SPECIFICATIONS | | | |
|--------------------------|---------|---|---------------|
| A (mm) | 68 - 70 | M (mm) | 65 - 75 |
| B (mm) | 50 - 53 | T (mm) | 12 - 13 |
| C (mm) | 31 - 34 | Inclination $\triangle 1:x$ | 1:4 - 1:14 |
| D (mm) | 23 - 28 | Weight (kg/m) | 10.31 - 10.69 |
| E (mm) | 42 - 45 | Cross section (cm²) | 13.13 - 13.62 |

- > We produce clips sheared or sawn. Holes are punched.

| GUARANTEED PROPERTIES OF MATERIAL | | | |
|-----------------------------------|---------------|----------------------------|-------------------|
| Material | S355JR | Elongation | min. 22 % |
| Standard | EN 10025 | Content of elements | 0.27 % C |
| Tensile strength | 470 - 630 MPa | | max. 0.045 % P, S |

COMPONENTS FOR MINE AND FIELD TRACKS

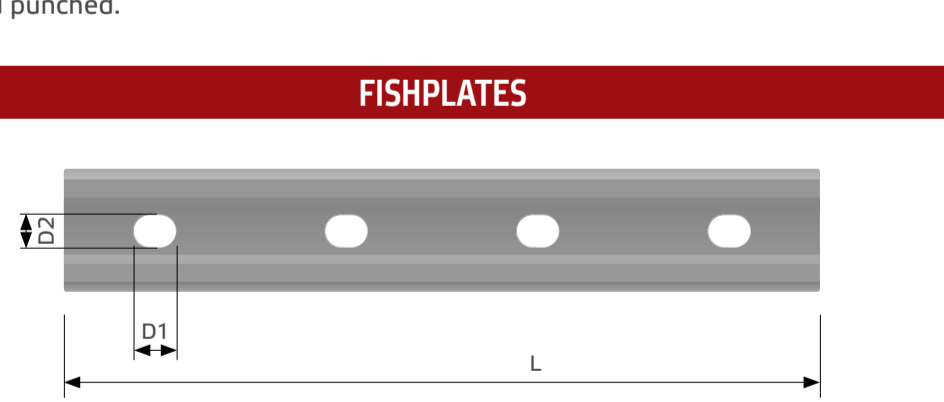
BASE PLATES



| TECHNICAL SPECIFICATIONS | | | |
|---|-------------|--------------|--------------|
| Application for rails | 93/18 (S18) | 115/24 (S24) | 115/24 (S24) |
| A - Width (mm) | 150 | 160 | 155 |
| B - Chamber (mm) | 80 | 88 | 91.6 |
| L - Length (mm) | 115 | 120 | 120 130 |
| Inclination $\triangle 1:x$ | 0 | 0 | 1:20 |
| C - Size of holes (mm) | 17 | 17 | 21 23 |

- > The production based on the exact specification by agreement with the customer.
- > We produce base plates and fishplates for mine and field tracks sheared and punched.

FISHPLATES



| TECHNICAL SPECIFICATIONS | | | | | |
|------------------------------|------------------|------------------|-------------|-------------|-------------|
| Application for rails | 115/24 E (S24 E) | 115/24 I (S24 I) | 93/18 (S18) | 80/14 (S14) | 70/10 (S10) |
| P2 (mm) | 81.2 | 81.2 | 62.6 | 54.0 | 45.25 |
| B1 (mm) | 19 | 19 | 12 | 10 | 10 |
| B2 (mm) | 16 | 16 | - | - | - |
| D1 (mm) | 22 | 22 | 18 | 15 | 15 |
| D2 (mm) | 32 | - | 24 | 20 | 20 |
| L - Length (mm) | 500 | 500 | 330 | 330 | 300 |
| Weight (kg/m) | 10.33 | 10.33 | 5.58 | 4.01 | 3.35 |

SPECIAL RAILWAY PRODUCTS

- > We offer gauge bars and spreader bars to maintain the correct rail gauge.
- > We are able to produce others non-standard sizes after verifying the production possibilities and the subsequent mutual agreement.

QUALITY

Certificates

Třinecké železářny is approved by the bureau of TÜV Nord certification

TÜV Nord and possesses the following certificates:

- > Quality management system according to ISO 9001/2015
- > Quality management system in automotive industry according to IATF 16949
- > Environmental management system according to ISO 14001
- > Energy management system according to ISO 50001
- > Occupational health and safety management system according to ISO 45001

CONTACT

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