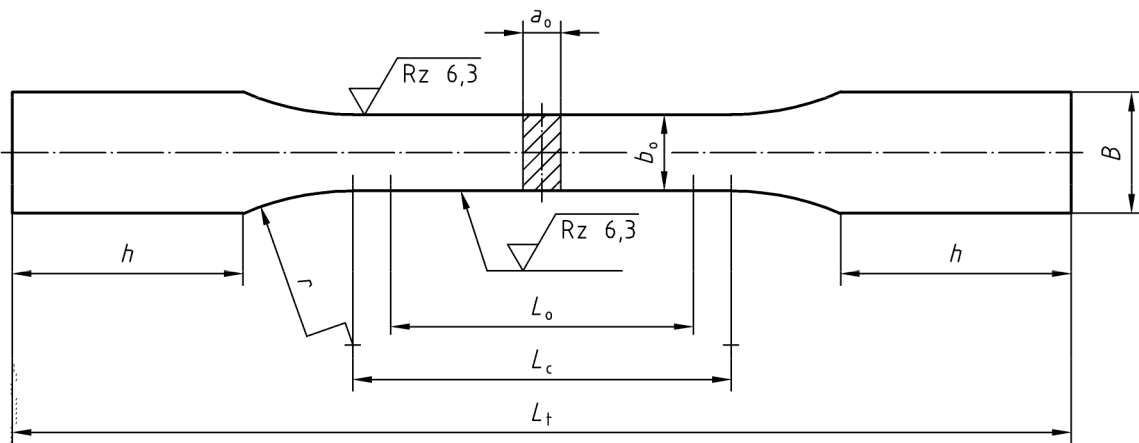


4.6 Type E test pieces



Key

- a_0 test piece thickness
- b_0 test piece width
- B width of gripped ends ($\approx 1,2 b + 3 \text{ mm}$)
- h length of gripped ends ($\approx 2 b + 10 \text{ mm}$)
- L_0 original gauge length ($L_0 = 5,65 \sqrt{a_0 \times b_0}$)
- L_c parallel length ($L_c \geq L_0 + 1,5 \sqrt{a_0 \times b_0}$)
- L_t total length of test piece

Figure 5 — Type E test piece, flat bar with ends for clamping in wedge grips

Designation of a type E test piece with a thickness $a_0 = 5 \text{ mm}$, width $b_0 = 16 \text{ mm}$ and original gauge length $L_0 = 50 \text{ mm}$:

Tensile test piece DIN 50125 – E 5 × 16 × 50

Table 6 — Examples of dimensions for type E test pieces

Dimensions in millimetres

| a_0 | b_0 | L_0 | B min. | r min. | h min. | L_c min. | L_t min. |
|-------|-------|-------|-------------|-------------|-------------|---------------|---------------|
| 3 | 8 | 30 | 12 | 12 | 26 | 38 | 104 |
| 4 | 10 | 35 | 15 | 12 | 30 | 45 | 120 |
| 5 | 10 | 40 | 15 | 12 | 30 | 51 | 126 |
| 5 | 16 | 50 | 22 | 15 | 40 | 64 | 162 |
| 6 | 20 | 60 | 27 | 15 | 50 | 77 | 197 |
| 7 | 22 | 70 | 29 | 20 | 55 | 89 | 222 |
| 8 | 25 | 80 | 33 | 20 | 60 | 102 | 246 |
| 10 | 25 | 90 | 33 | 20 | 60 | 114 | 258 |
| 10 | 30 | 100 | 40 | 25 | 70 | 126 | 296 |
| 12 | 26 | 100 | 34 | 25 | 65 | 127 | 285 |
| 15 | 30 | 120 | 40 | 25 | 70 | 152 | 322 |
| 18 | 30 | 130 | 40 | 25 | 70 | 165 | 335 |