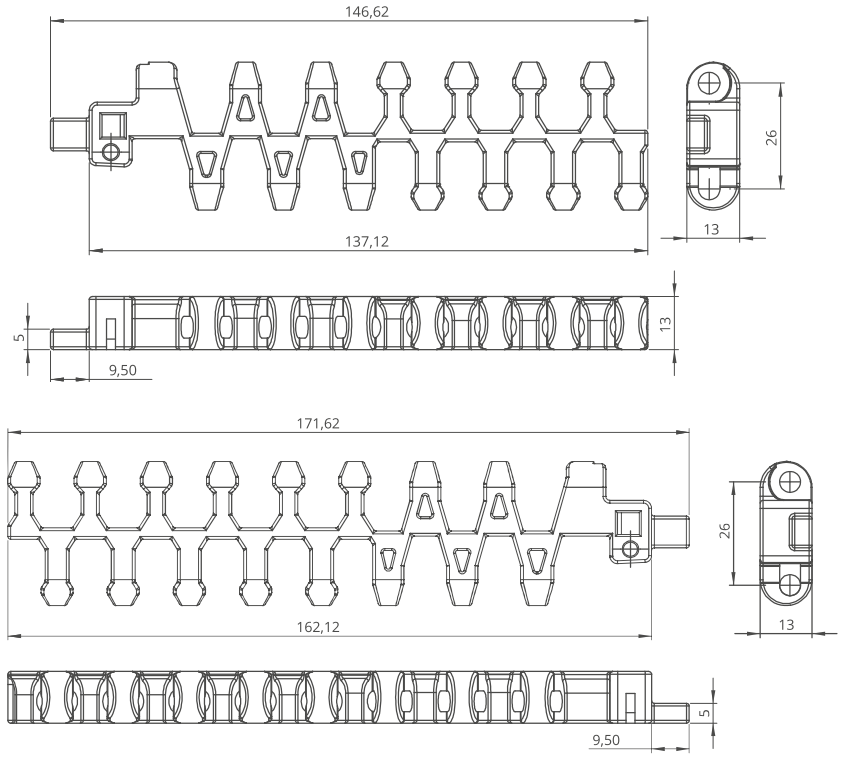

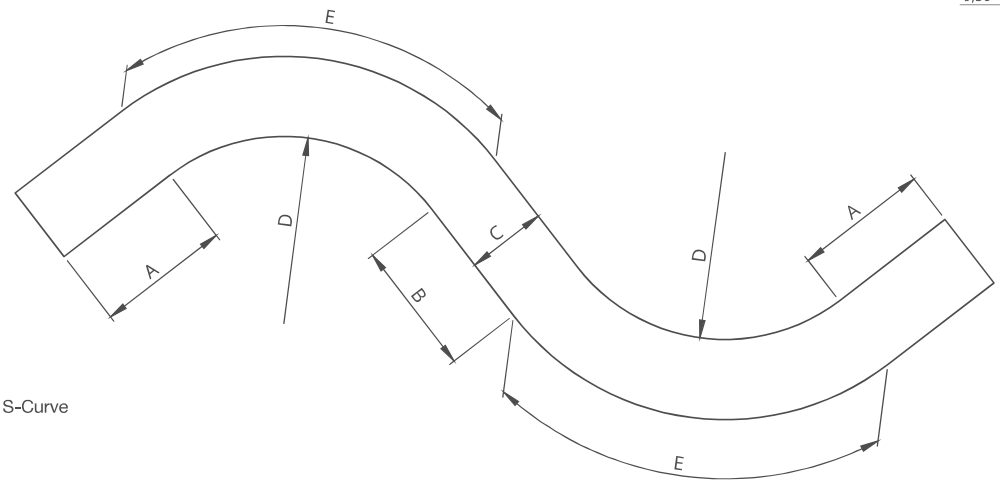

Radius Belt Example 90° S-Curve

Radius Belt Calculation

A: Straight run pull and n = Belt width
B: Straight run between 2 curves = min. 2 x belt width
C: Belt width
D: Minimum inner radius
E: Curve length

$$\textbf{Collapse Factor} = \frac{\text{Min. inner radius}}{\text{Belt width}}$$

Minimum inner radius = Collapse Factor x Belt width

CALCULATION EXAMPLE

Belt width: 500 mm Radius Belt
Collapse Factor: 1.55

D: 500 mm x 1.55= 775 mm
A: 500 mm
B: 2 x 500 mm = 1000 mm (min.)
E: $\frac{2 \times (C+D) \times 3.14}{4}$ = 2016 mm

Total length = (2 x A) + B + (2 x E)