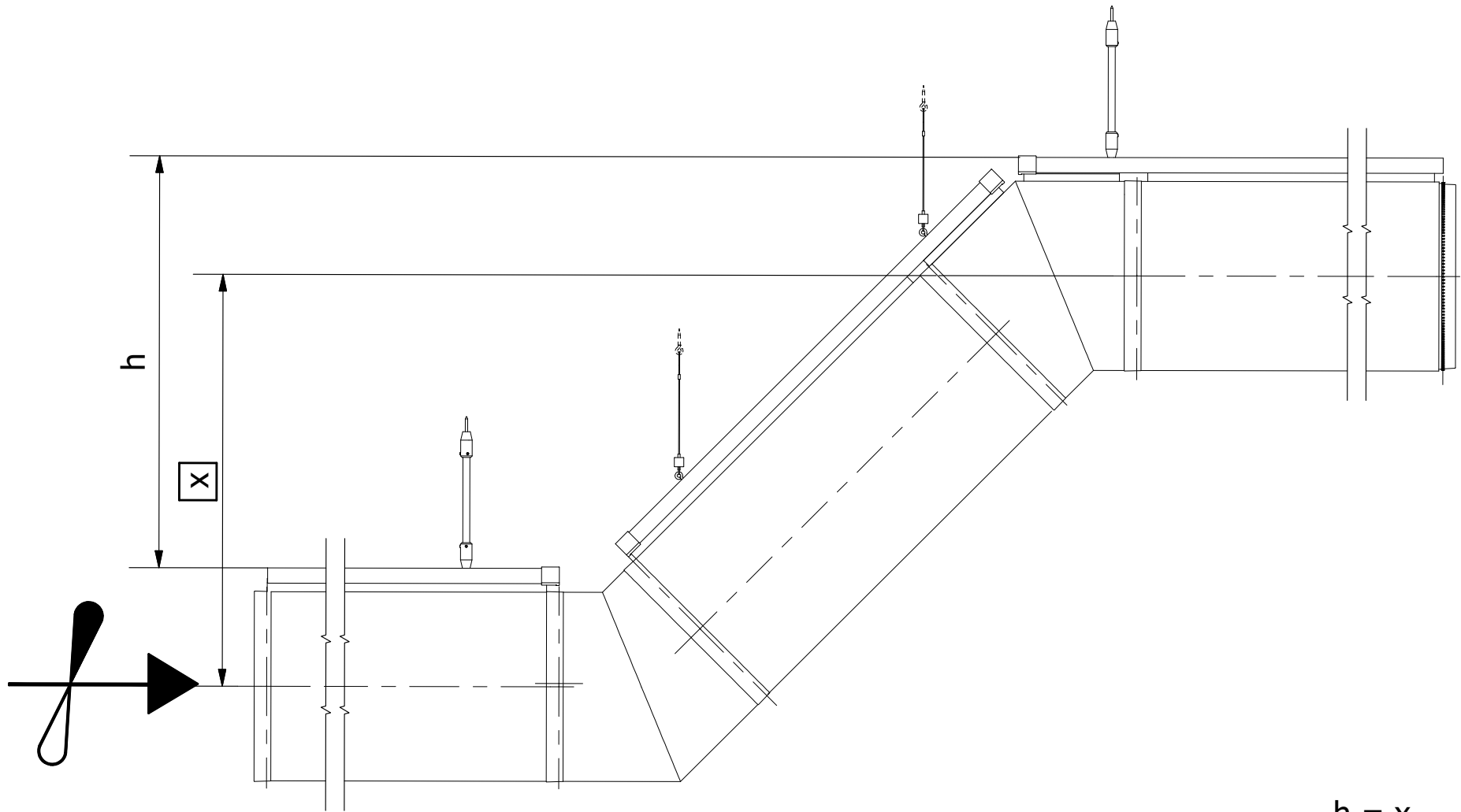


Verticals - Type 07



$$h = x$$

$b = \text{Max.}200\text{mm}[8"]$

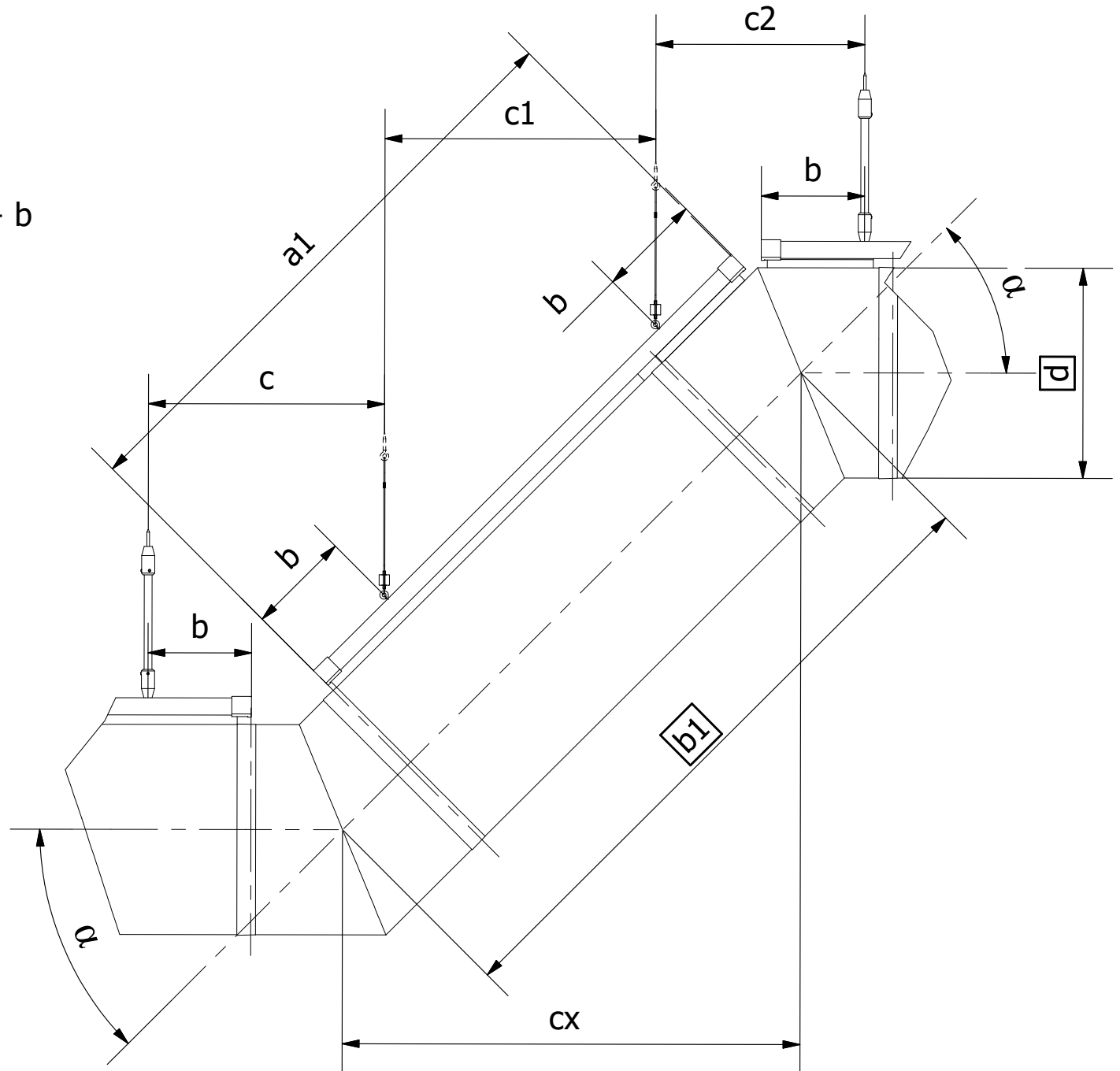
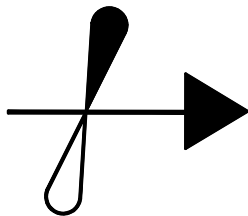
$a1 = b1$

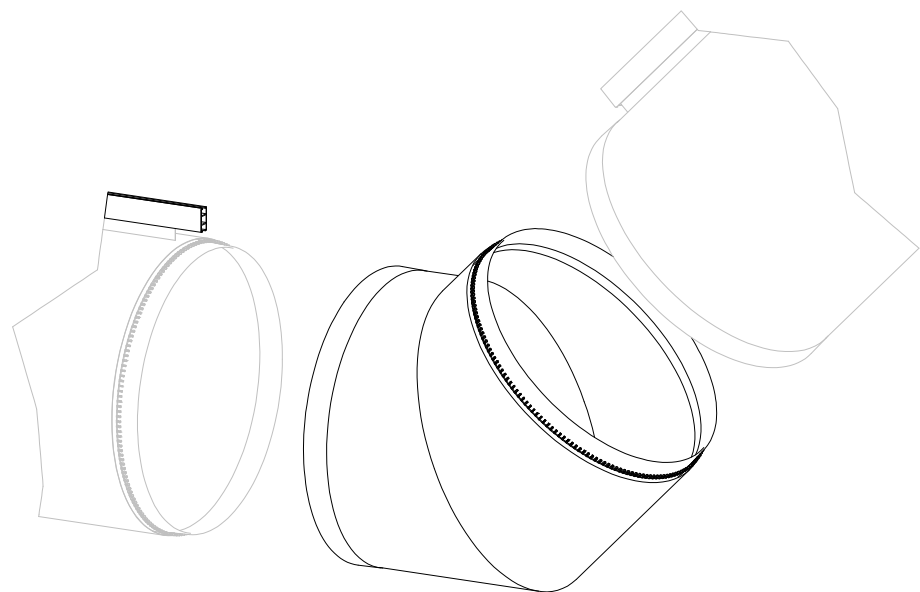
$c = b \times \cos \alpha + \sin^{1/2} \alpha \times \frac{1}{2}d + b$

$c1 = (b1 - 2 \times b) \cos \alpha$

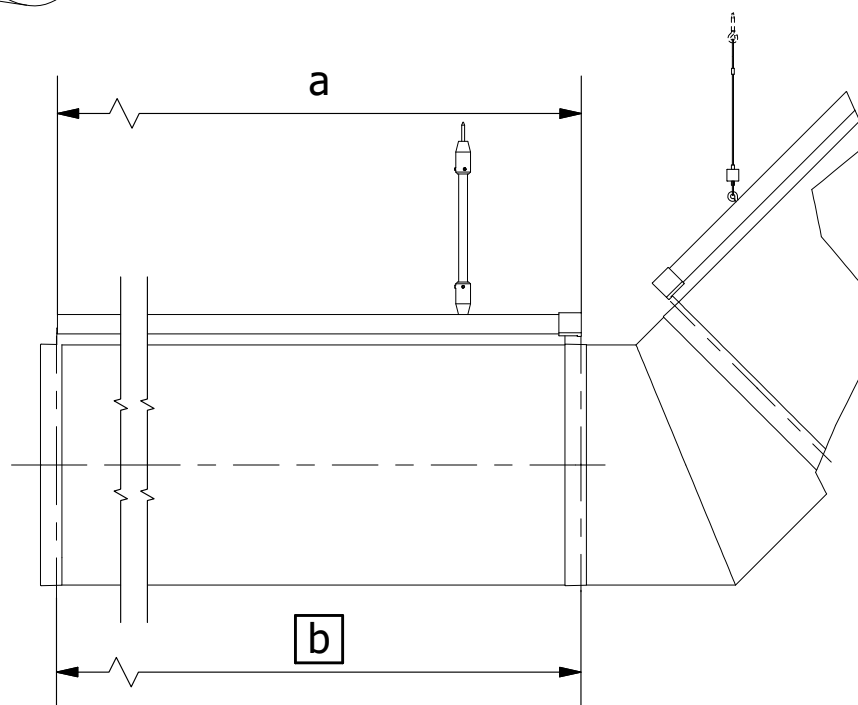
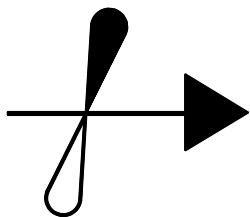
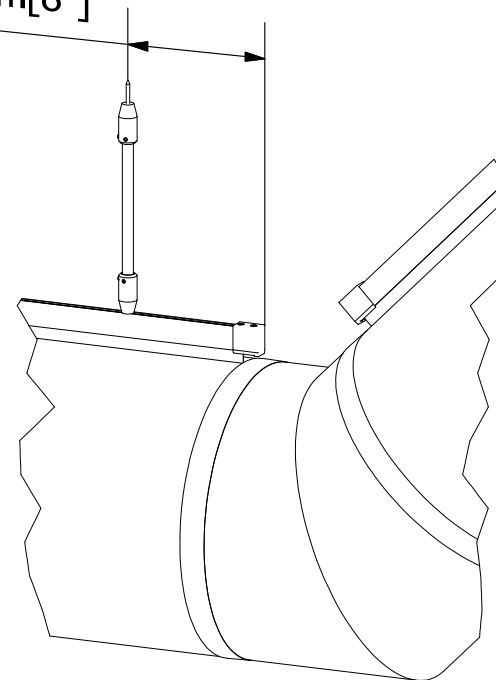
$c2 = b \times \cos \alpha + b$

$cx = \cos \alpha \times b1$

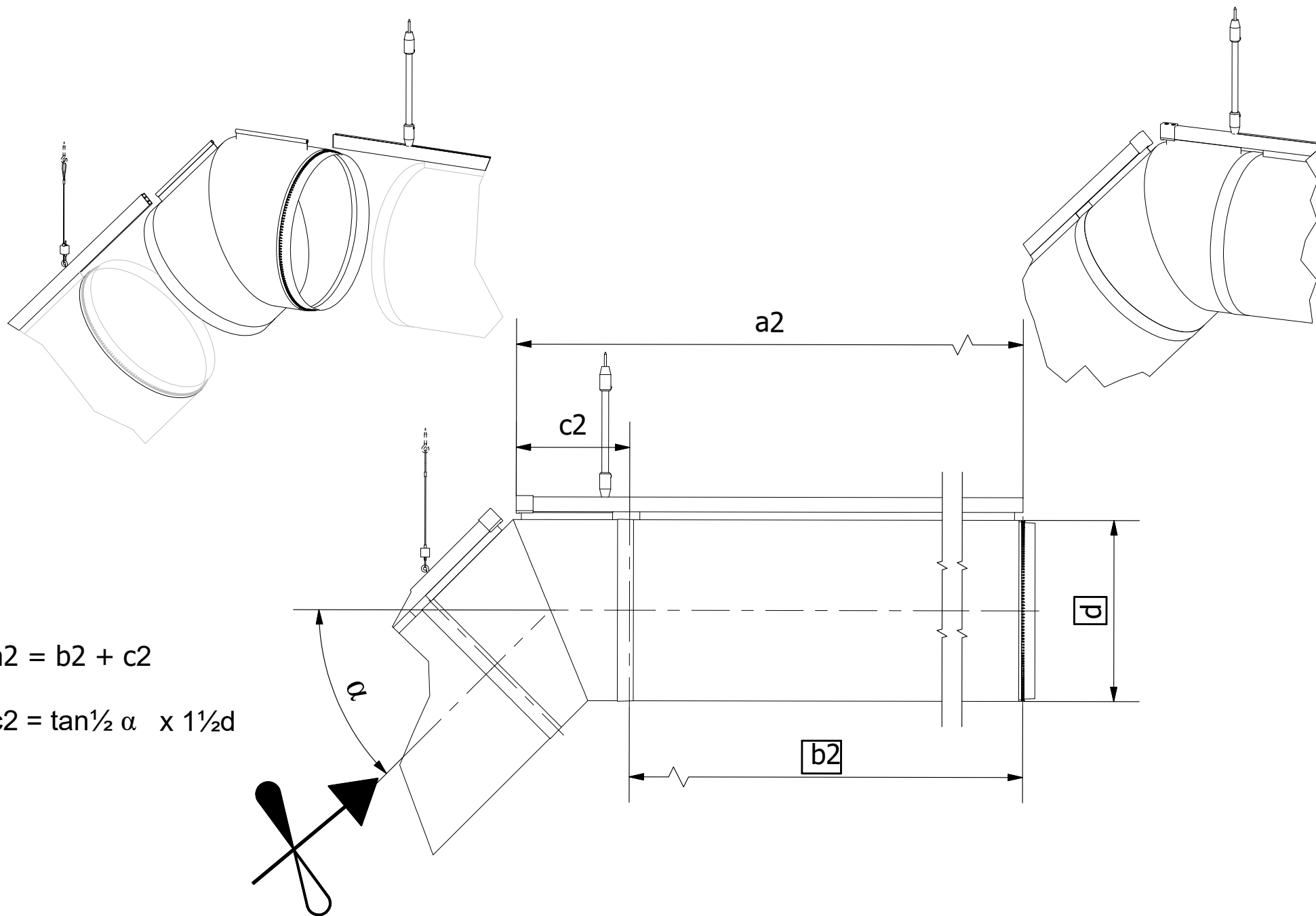




Max. 200 mm[8"]

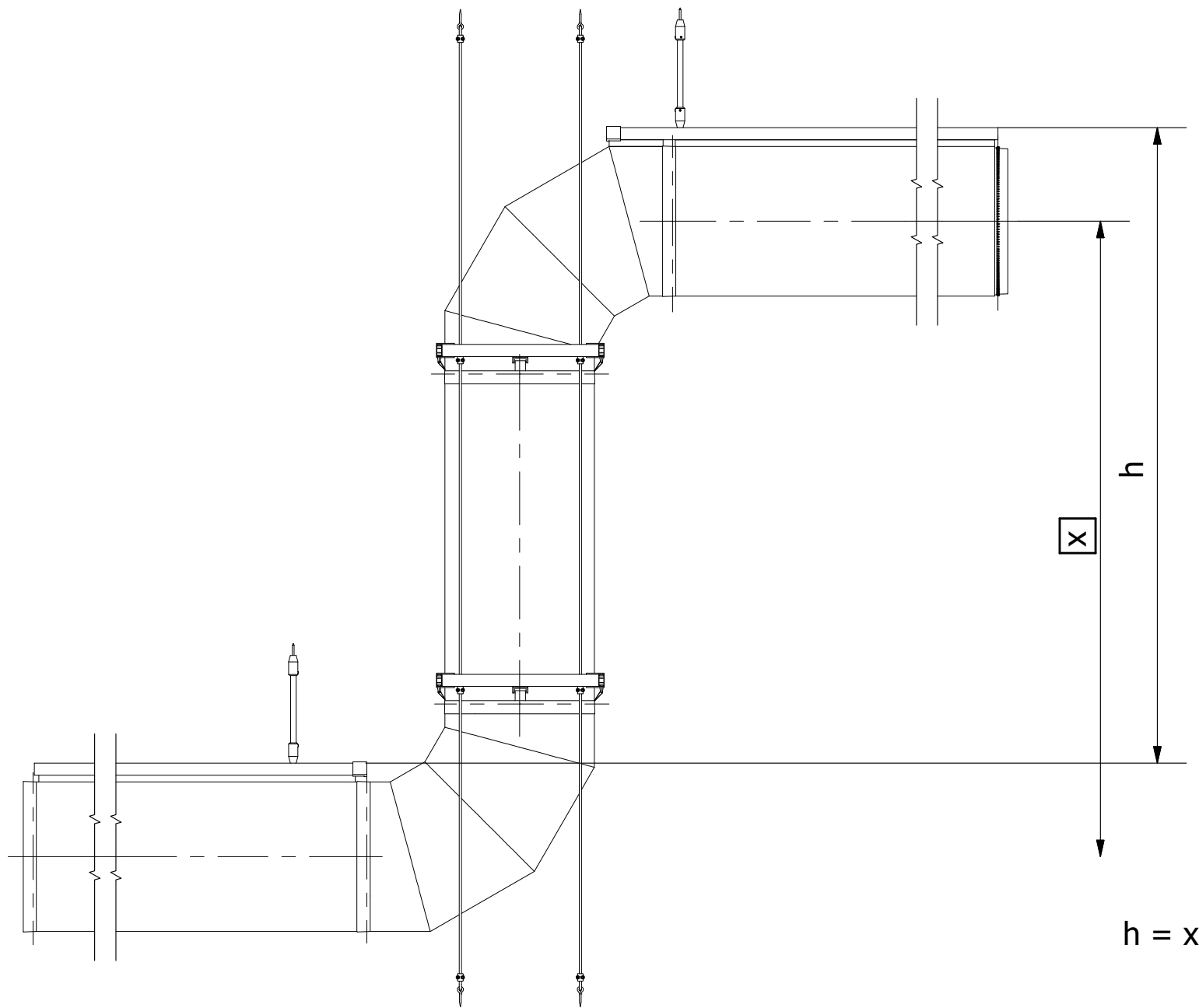
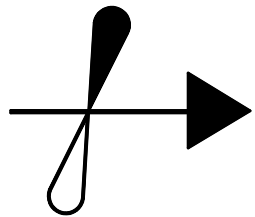


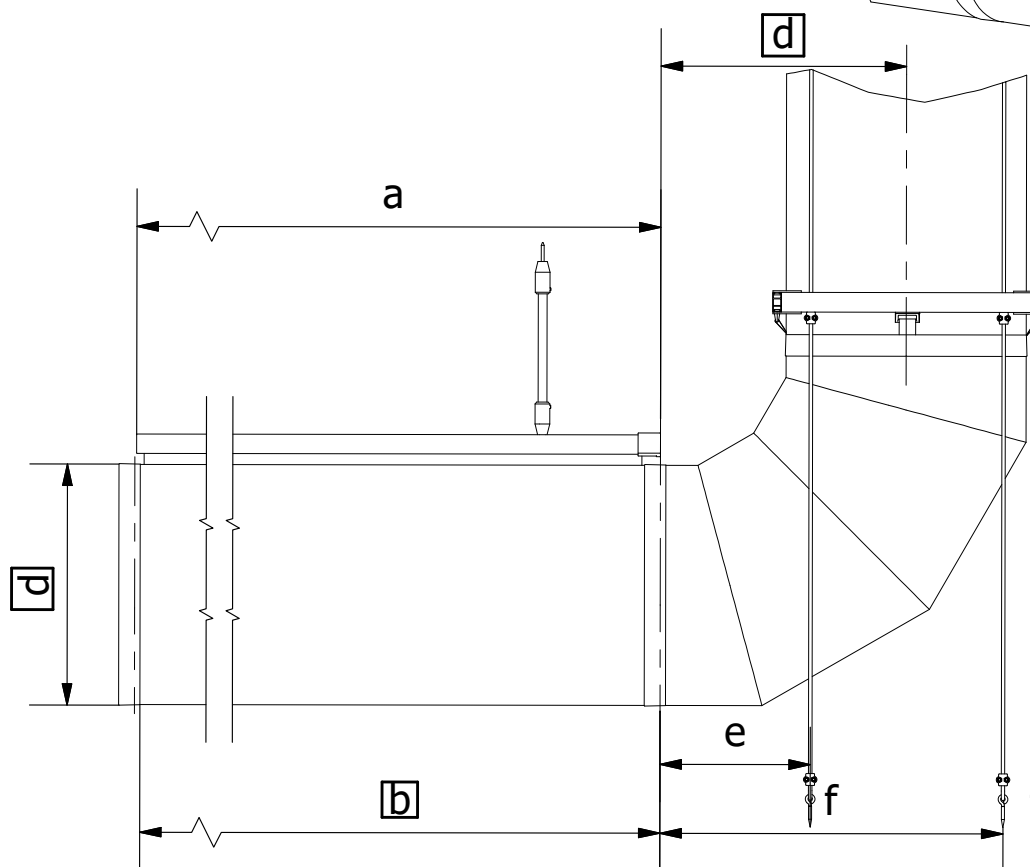
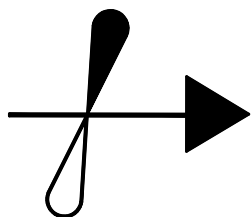
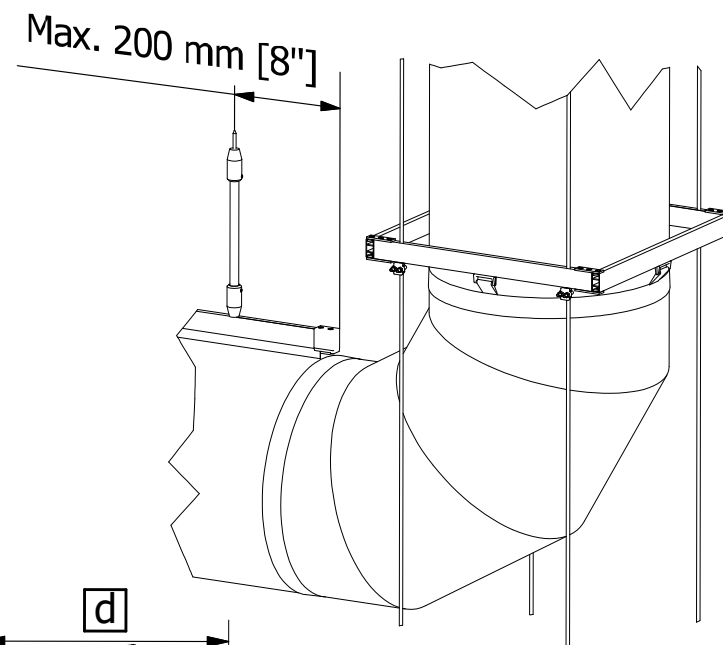
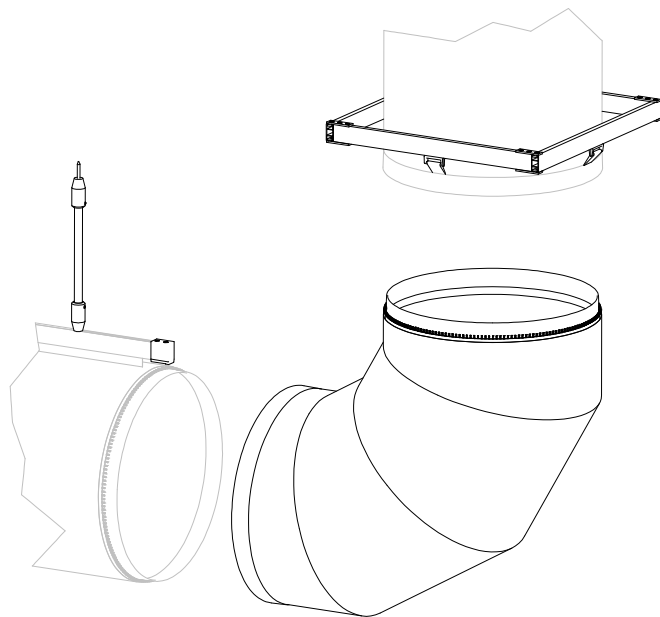
$a = b$



$$a_2 = b_2 + c_2$$

$$c_2 = \tan \frac{1}{2} \alpha \times 1 \frac{1}{2} d$$

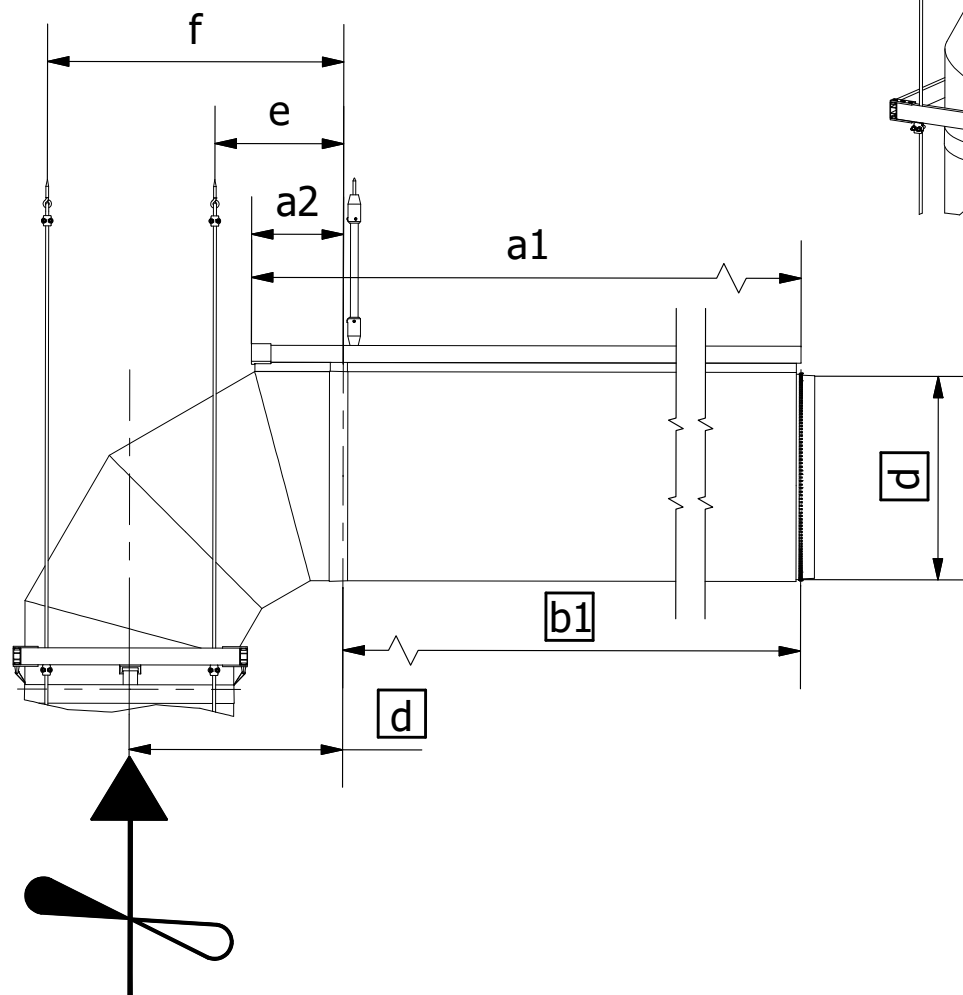
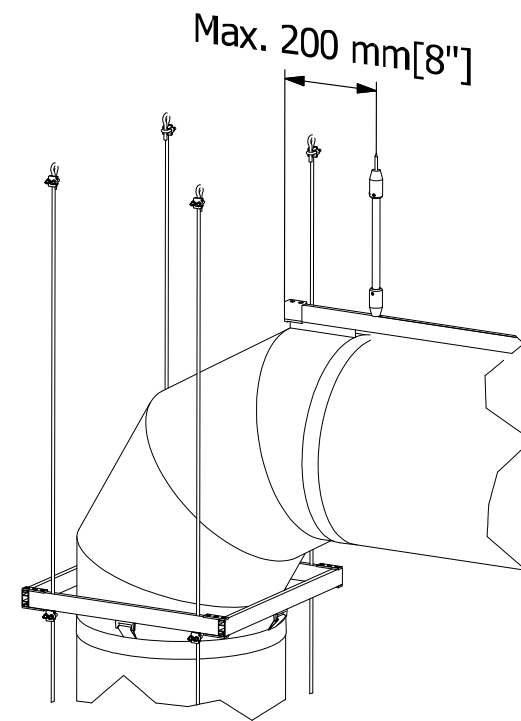
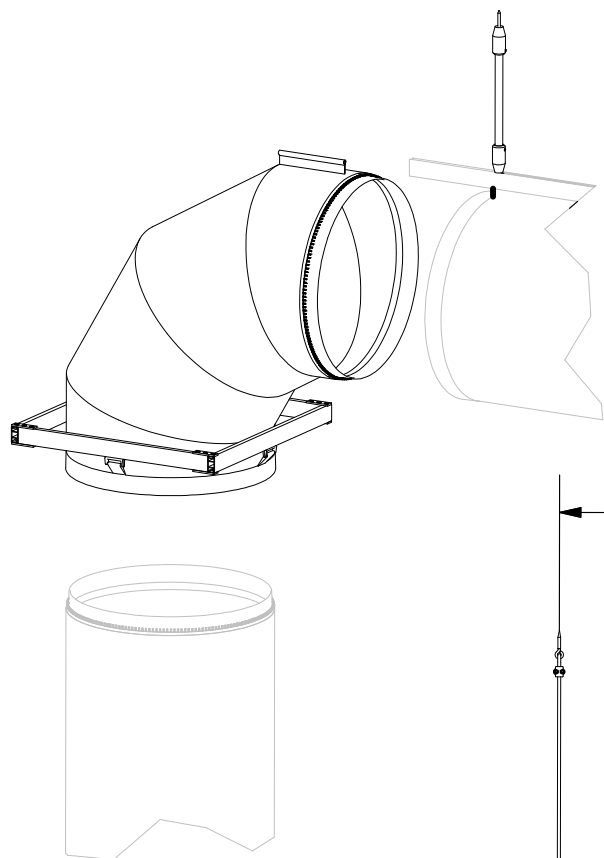




$$a = b$$

$$e = \frac{1}{2}d + 40\text{mm}[1.57"]$$

$$f = d + \frac{1}{2}d - 40\text{mm}[1.57"]$$

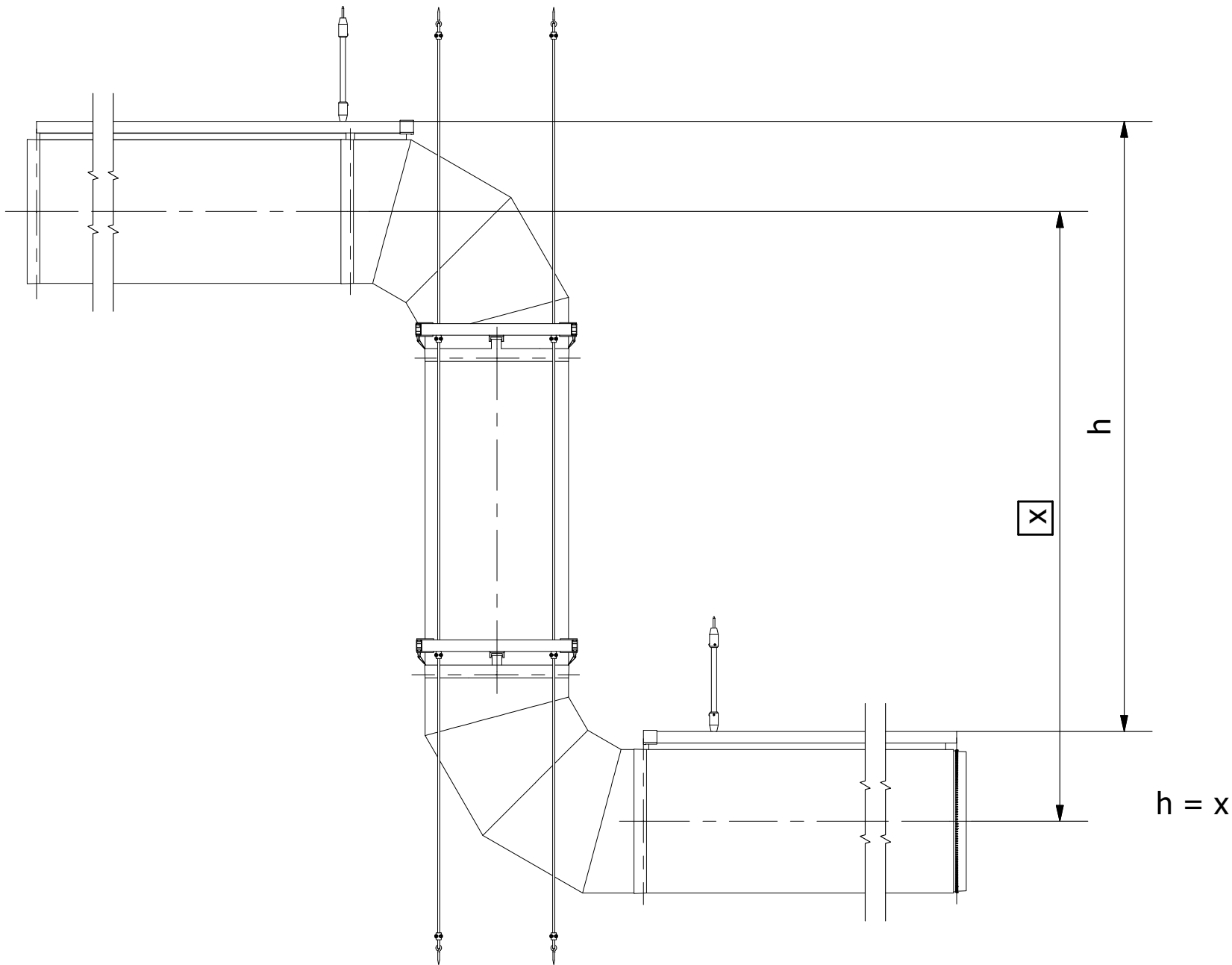
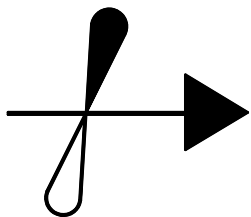


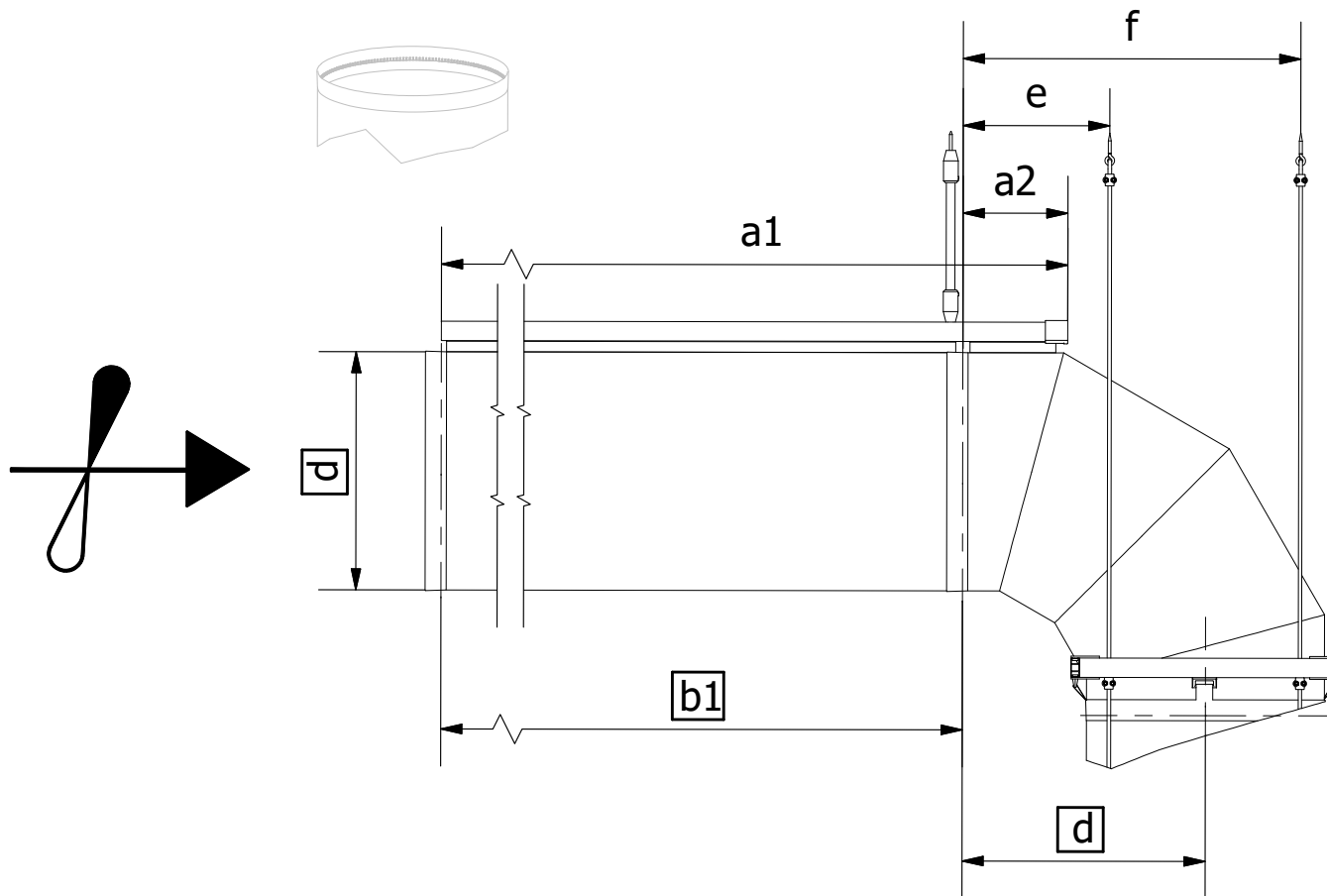
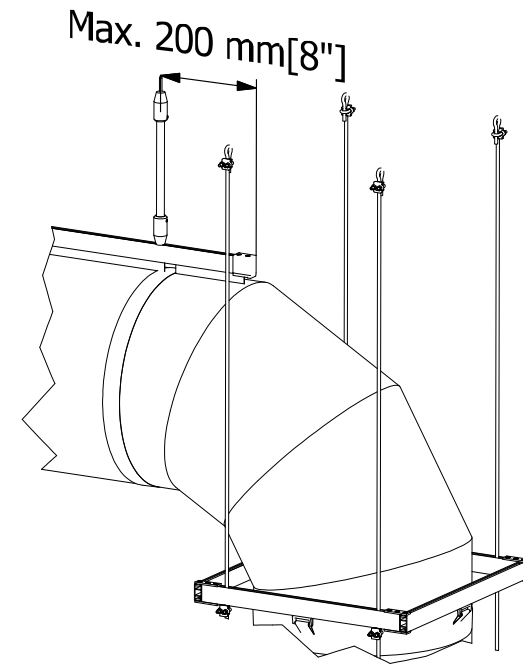
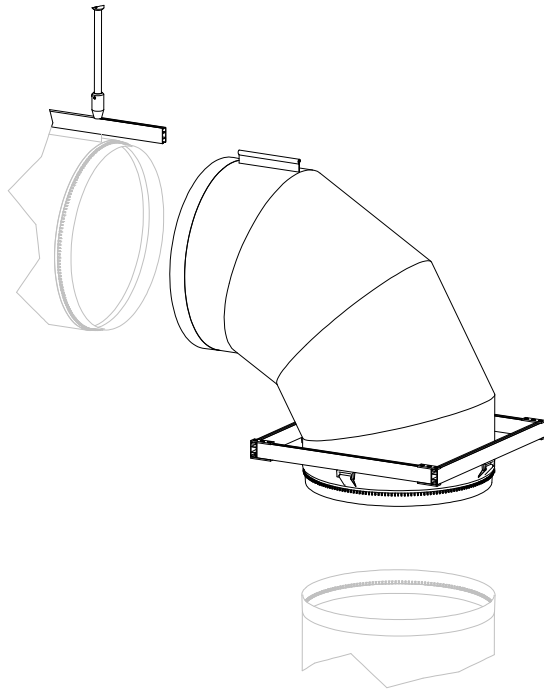
$$a2 = 0.4 \times d$$

$$a1 = b1 + a2$$

$$e = \frac{1}{2}d + 40 \text{ mm}[1.57"]$$

$$f = d + \frac{1}{2}d - 40\text{mm}[1.57"]$$



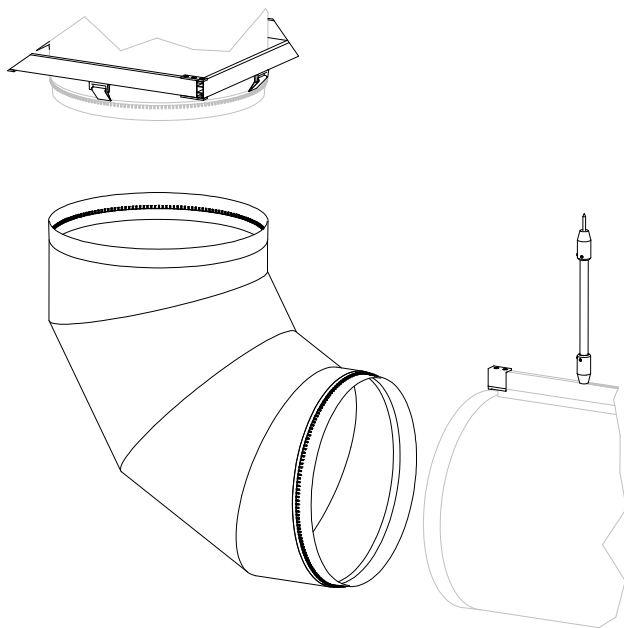


$$a2 = 0.4 \times d$$

$$a1 = b1 + a2$$

$$e = \frac{1}{2}d + 40\text{mm}[1.57"]$$

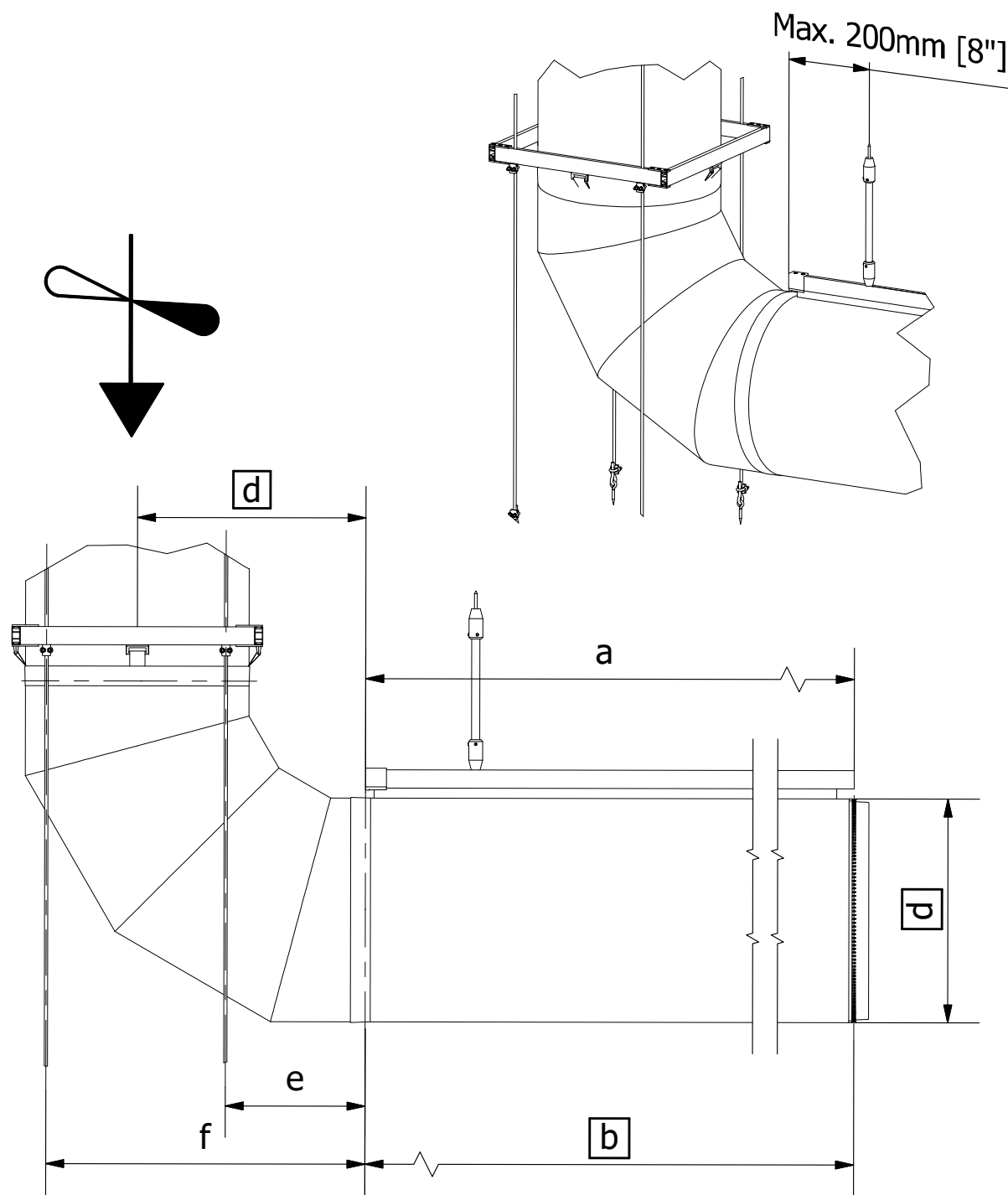
$$f = d + \frac{1}{2}d - 40\text{mm}[1.57"]$$

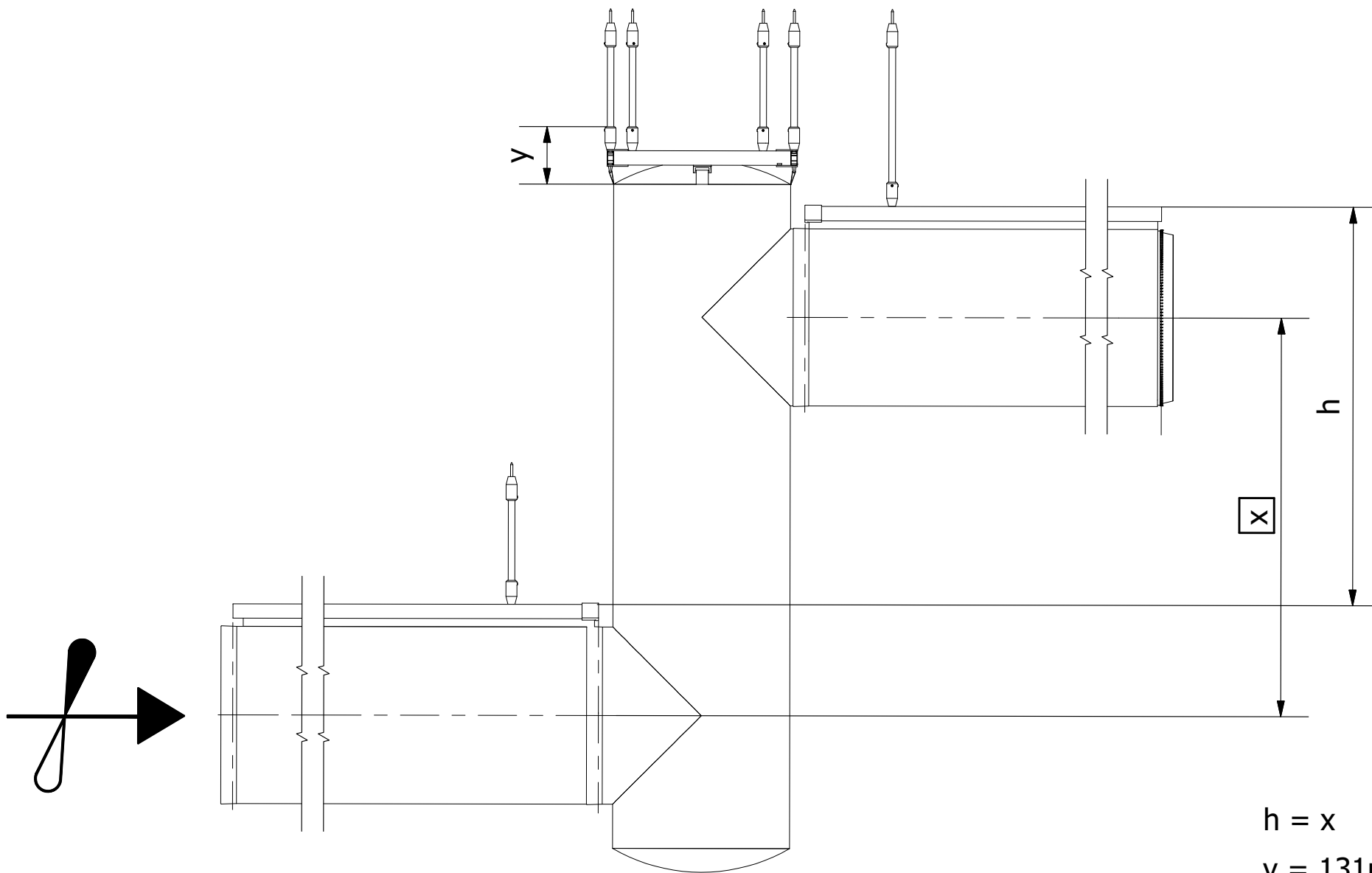


$$a = b$$

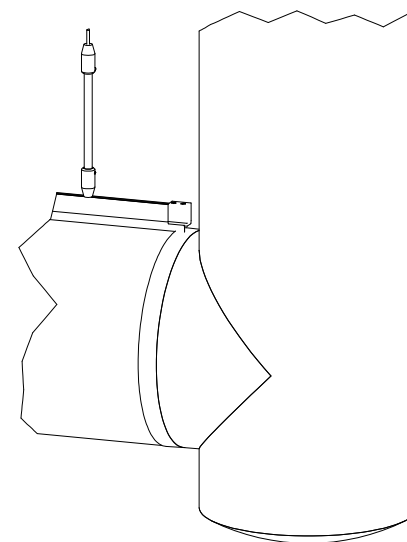
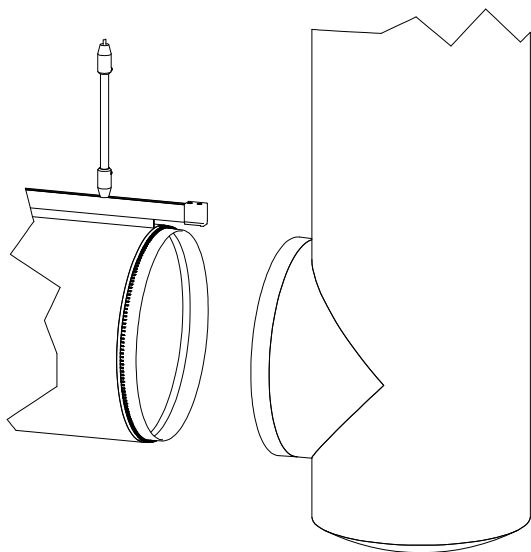
$$e = \frac{1}{2}d + 40\text{mm}[1.57"]$$

$$f = d + \frac{1}{2}d - 40\text{mm}[1.57"]$$



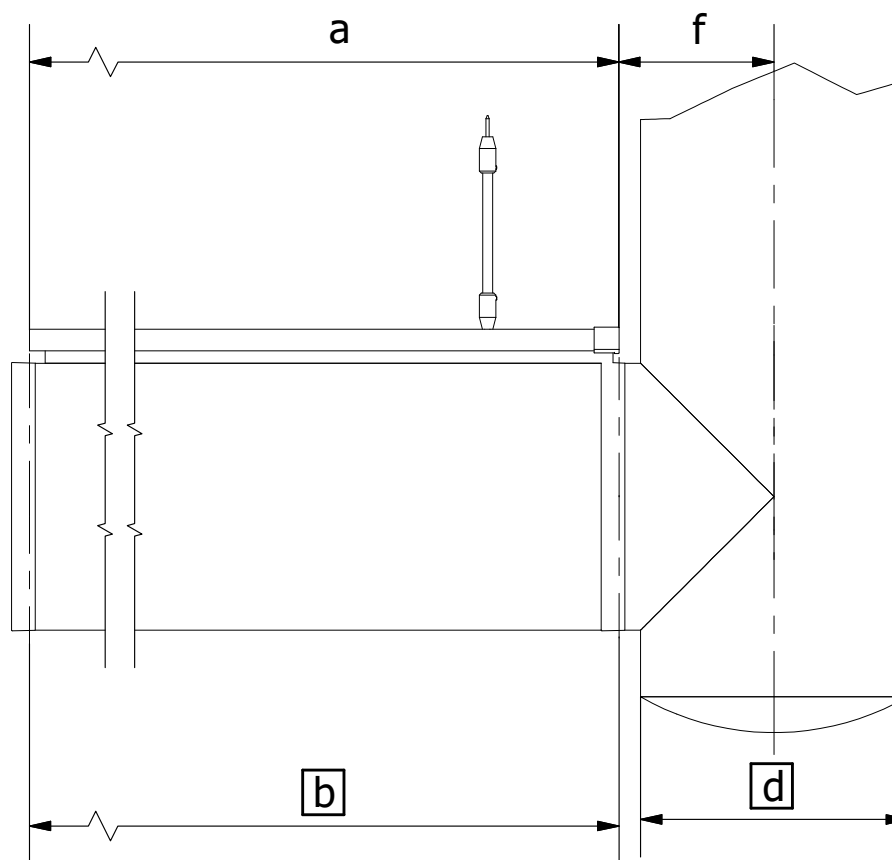
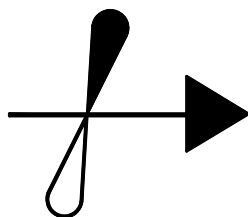


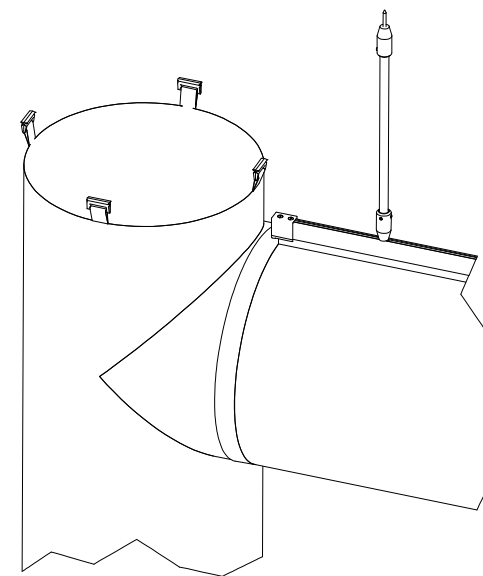
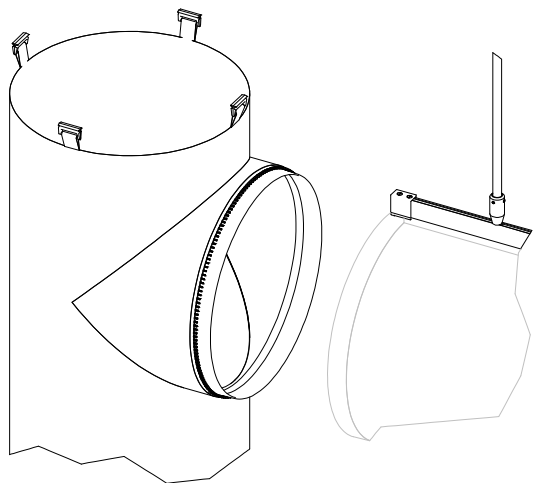
$h = x$
 $y = 131\text{mm [5.1"]}$



$$a = b$$

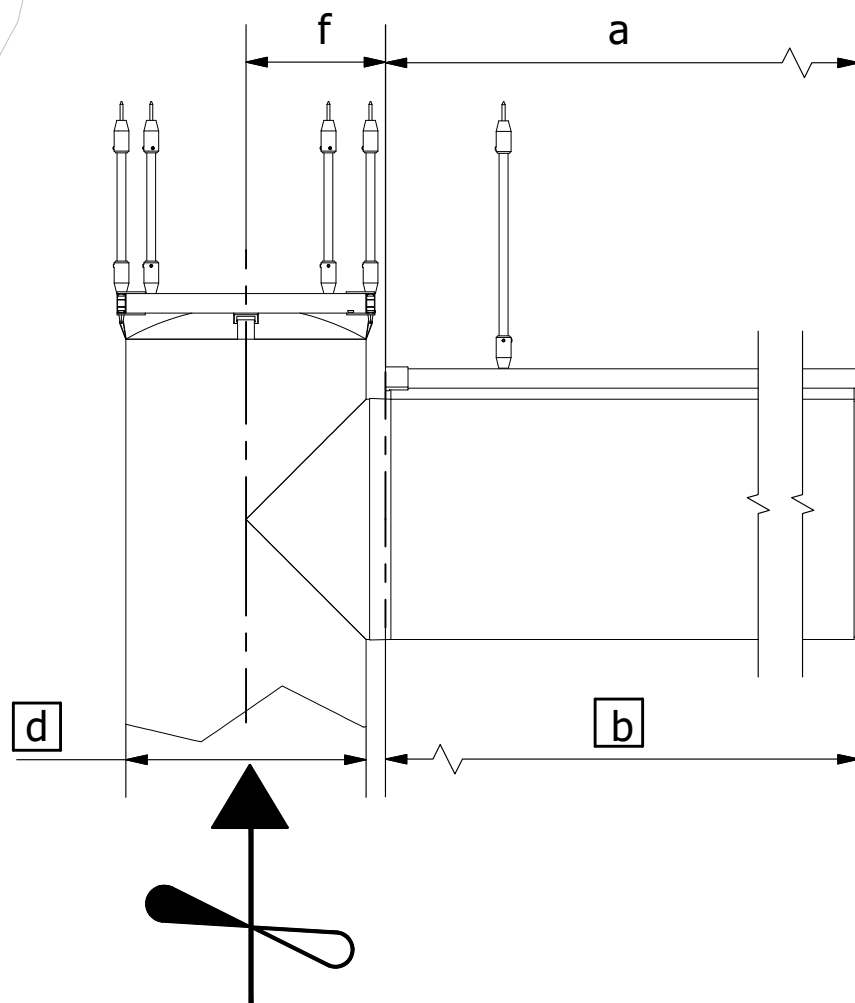
$$f = \frac{1}{2} d + 35\text{mm}[1.38"]$$

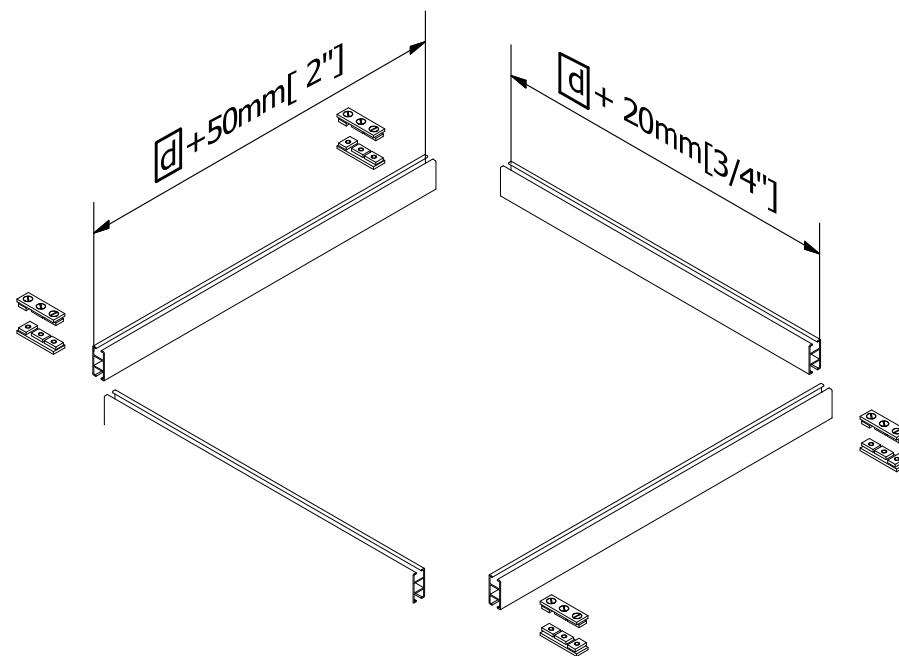
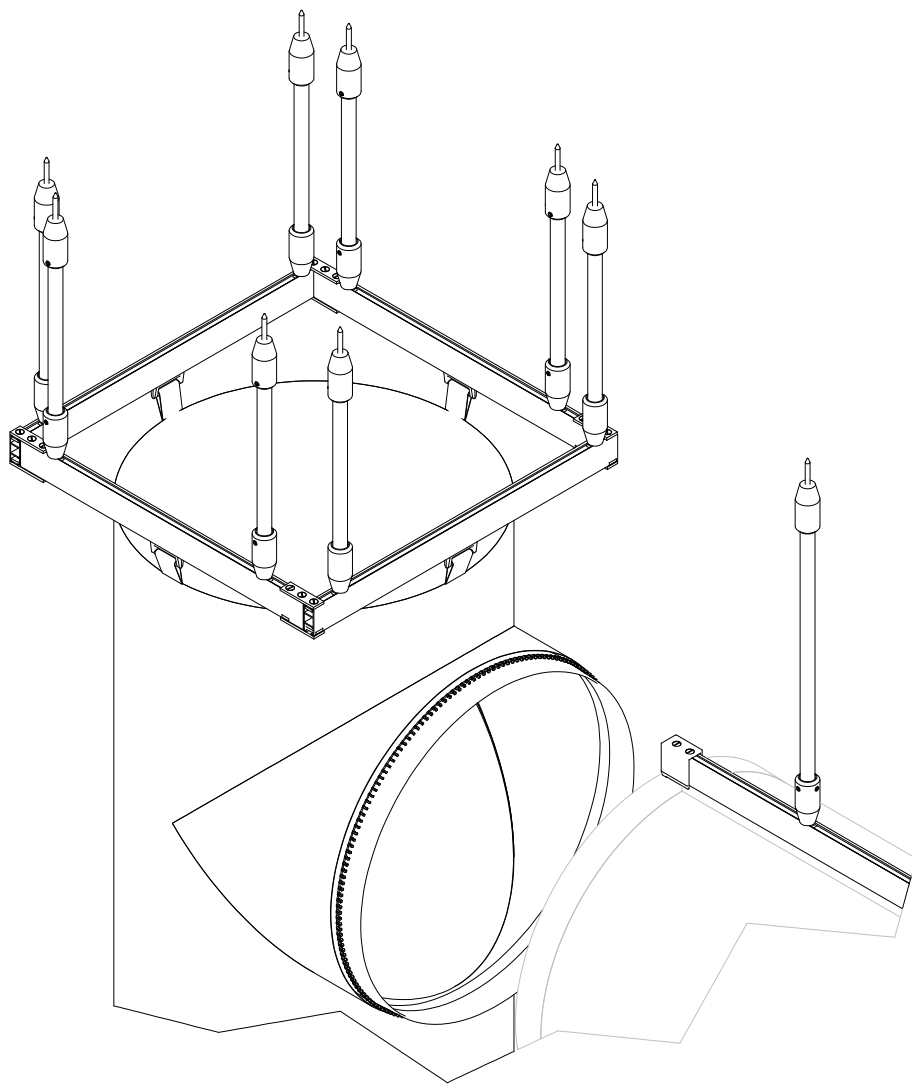




$$a = b$$

$$f = \frac{1}{2}d + 35\text{mm}[1.38"]$$





d = Duct Diameter

