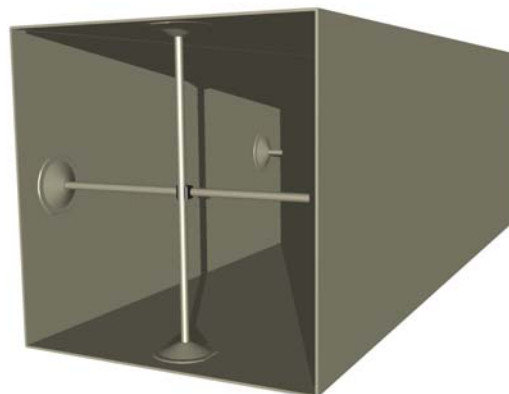


### Ventilation ducting + fittings in plastic

Standards	The maximum amount of bending of the longest side for unstrengthened ducts is defined in DIN 4740 Part 5 for PVC and in DIN 4741 Part 5 for PPs.
Material	All ducts and fittings can be supplied in the following materials: PPs, flame-resistant according to DIN 4102 B1 PE, specially stabilised for outdoor use PVC, flame-resistant according to DIN 4102 B1 PP
Calculation	On the basis of the following data, COLASIT AG calculates and defines the optimum type of strengthening as required: <ul style="list-style-type: none"> <li>- max. edge length</li> <li>- max. over-pressure and under-pressure in the ducting</li> <li>- Temperature of medium passing through</li> <li>- Permitted amount of bending</li> </ul>
Types of strengthening	External strengthening using welded-on reinforcement profiles or internal stiffening using tubing. COLASIT AG usually uses specially developed internal stiffening elements.



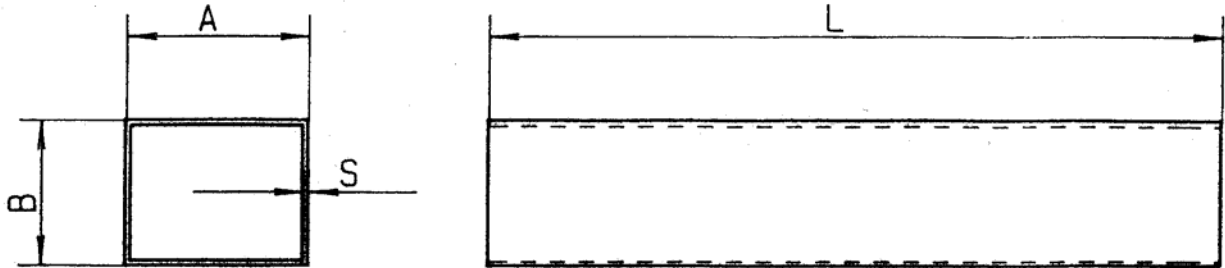
Wall thickness for internally-strengthened ducts and maximum bending of 2% of edge length according to DIN 4741 T5

Dimensions	PPs, PP max. loading +/- 1000 Pa	PE max. loading +/- 1000 Pa	PVC max. loading +/- 1500 Pa
110 – 500 mm	4 mm	4 mm	4 mm
501 – 1000 mm	6 mm	6 mm	6 mm
1001 – 2000 mm	8 mm	8 mm	8 mm

**Duct < 600 mm**

Dimensional Drawing No. 1.040

Material PVC / PP / PP<sub>s</sub> / PE

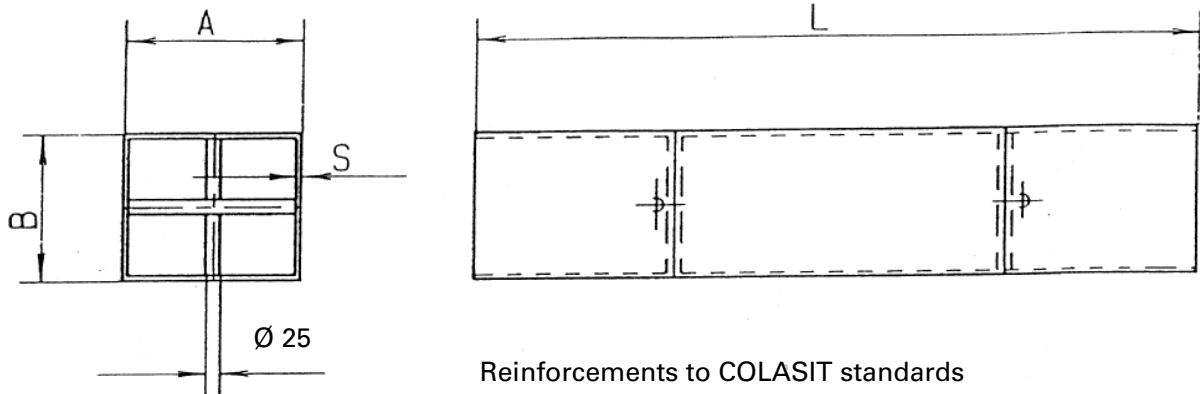


Dimension A	Dimension B	L	PVC S	PP / PP <sub>s</sub> / PE S
110	110	2000	4	4
200	110	2000	4	4
200	200	2000	4	4
300	110	2000	4	4
300	200	3000	4	4
300	300	3000	4	4
400	110	3000	4	4
400	200	3000	4	4
400	300	3000	4	4
400	400	3000	4	4
500	110	3000	4	4
500	200	3000	4	4
500	300	3000	4	4
500	400	3000	4	4
500	500	3000	4	4
600	110	3000	6	6
600	200	3000	6	6
600	300	3000	6	6
600	400	3000	6	6
600	500	3000	6	6
600	600	3000	6	6

**Duct > 600 mm**

Dimensional Drawing No. 1.041

Material PVC / PP / PPs / PE



Dimension A / B	Length L	S
700/110	3000	6
700/200	3000	6
700/300	3000	6
700/400	3000	6
700/500	3000	6
700/600	3000	6
700/700	3000	6
800/110	3000	6
800/200	3000	6
800/300	3000	6
800/400	3000	6
800/500	3000	6
800/600	3000	6
800/700	3000	6
800/800	3000	6
900/110	3000	6
900/200	3000	6

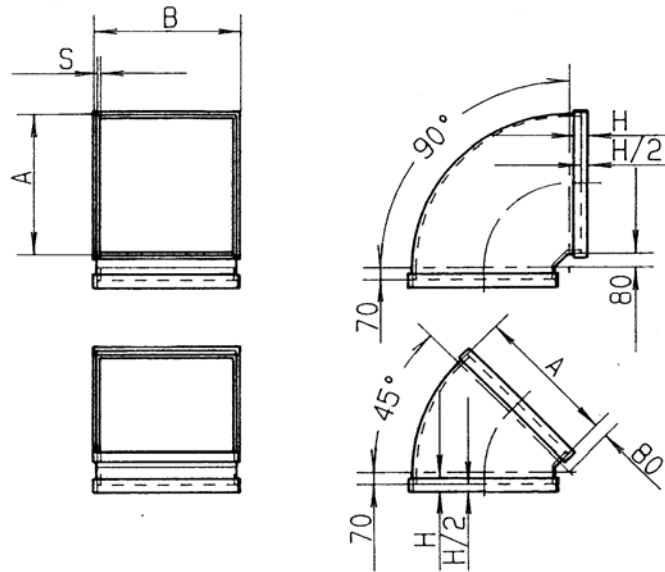
Dimension A / B	Length L	S
900/300	3000	6
900/400	3000	6
900/500	3000	6
900/600	3000	6
900/700	3000	6
900/800	3000	6
900/900	3000	6
1000/110	3000	6
1000/200	3000	6
1000/300	3000	6
1000/400	3000	6
1000/500	3000	6
1000/600	3000	6
1000/700	3000	6
1000/800	3000	6
1000/900	3000	6
1000/1000	3000	6

Other dimensions are also possible.

**90° / 45° bend**

Dimensional Drawing No. 1.042 / 43

Material PVC / PP / PPs / PE



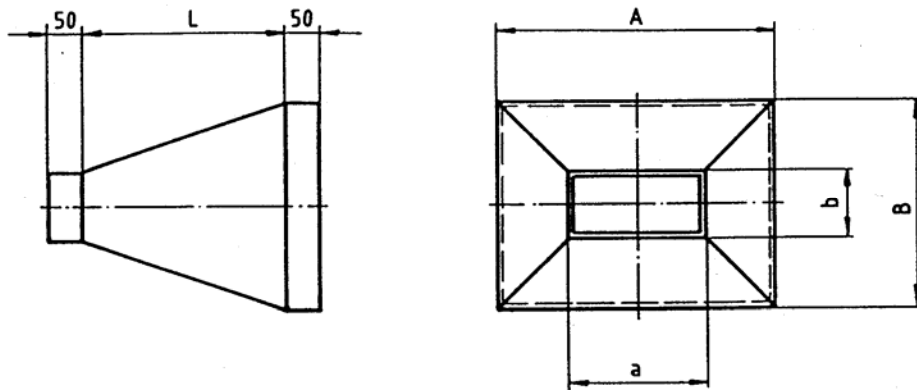
<b>Dimension A / B</b>	<b>PP / PPs S</b>	<b>PVC S</b>	<b>Coupling H</b>
110-250	4	3	50
251-500	4	4	80
501-1000	6	5	80

Other dimensions are also possible

**Rectangular taper-piece**

Dimensional Drawing No. 1.044

Material PVC / PP / PPs / PE



<b>A or B</b>	<b>L</b>	<b>S</b>
< 500	*	4
500 - 750	*	5
> 750	*	6

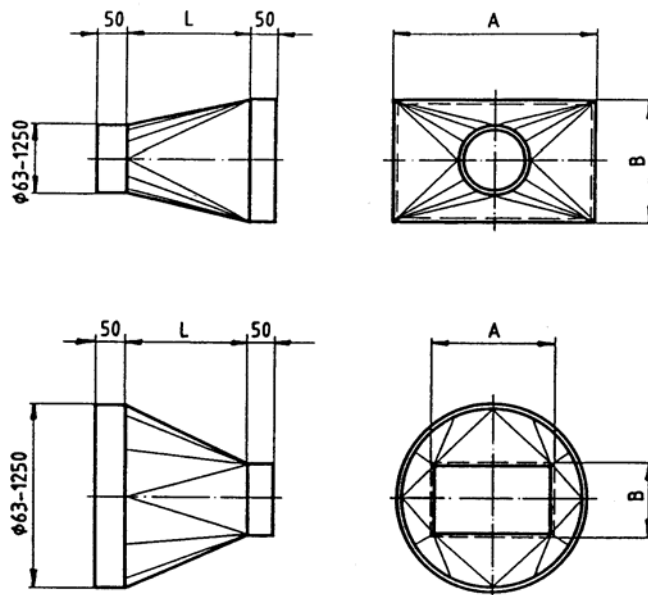
Standard sizes: as for ducting.

\* Dimension L depends on the size of the two connecting cross-sections.

**Rectangular / round connecting-piece**

Dimensional Drawing No. 1.045

Material PVC / PP / PPs / PE



<b>A or B</b>	<b>L</b>	<b>S</b>
< 500	*	4
500 - 1000	*	6
> 1000	*	8

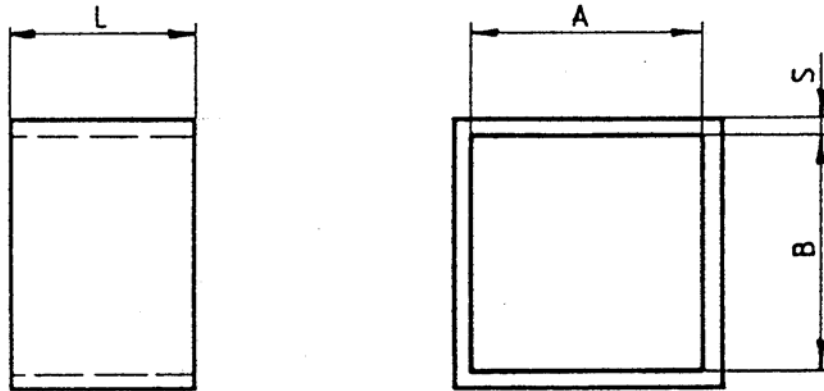
Standard sizes: as for ducting.

\* Dimension L depends on the size of the two connecting cross-sections.



**Rectangular coupler**

Dimension Drawing Nr. 1.048  
 Material PVC / PP / PPs / PE



<b>A or B</b>	<b>L</b>	<b>PVC S</b>	<b>PP / PPs / PE S</b>
110 – 250	50	3	4
251 – 500	80	4	4
501 - 1000	80	5	5

Standard sizes: as for ducting.