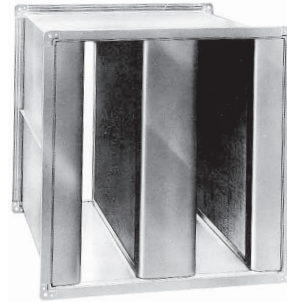


# Rectangular Duct Attenuators Type 'DS'

The 'DS' Type rectangular attenuator is made from galvanised sheet steel with 40 mm wide Doby slide on flanges. The infill acoustic material is fire retardant and complies with Class 'O' Building Regulations. The infill acoustic material is protected with a lining which prevents fibre erosion. This was successfully tested against fibre erosion for up to 30 m/s. This is available in galvanised or stainless steel construction. Vertical or horizontal bend construction is also available on request.

'DK' Type splitters can be supplied separately to be installed in AHU section or builder's work duct by others. For detail selection, please contact TROX.

**Type 'DS' Attenuator**



**Table 1:** Quick selection table for DS20 to maintain a design Noise Criteria of NC 40

Duct Height (mm)	Duct Width (mm) Type DS20 -	300	350	400	550	600	700	800	900	1050	1200
		100	150	200	75	100	150	200	100	150	200
200	Flow, Vmax (m³/s)	0.342	0.539	0.712	0.506	0.684	1.078	1.424	1.026	1.617	2.136
	ΔP (Pa)	97	81	66	124	98	81	66	98	81	66
300	Flow, Vmax (m³/s)	0.513	0.809	1.068	0.759	1.026	1.617	2.136	1.539	2.426	3.204
	ΔP (Pa)	95	78	64	120	96	78	63	96	78	63
400	Flow, Vmax (m³/s)			1.424	1.012	1.368	2.156	2.848	2.052	3.234	4.272
	ΔP (Pa)			62	118	95	77	62	95	77	62
500	Flow, Vmax (m³/s)				1.265	1.710	2.695	3.560	2.565	4.043	5.340
	ΔP (Pa)				118	94	76	61	94	76	61
600	Flow, Vmax (m³/s)					2.052	3.234	4.272	3.078	4.851	6.408
	ΔP (Pa)					94	76	61	94	76	61
700	Flow, Vmax (m³/s)						3.773	4.984	3.591	5.660	7.476
	ΔP (Pa)						75	61	94	75	61
800	Flow, Vmax (m³/s)							5.696	4.104	6.468	8.544
	ΔP (Pa)							60	93	75	60
900	Flow, Vmax (m³/s)								4.617	7.277	9.612
	ΔP (Pa)								93	75	60
1000	Flow, Vmax (m³/s)									8.085	10.680
	ΔP (Pa)									75	60
1100	Flow, Vmax (m³/s)										11.748
	ΔP (Pa)										60
1200	Flow, Vmax (m³/s)										12.816
	ΔP (Pa)										60

**Table 2:** Insert Loss for 600 mm long DS20 attenuator

Product Type @	Insert Loss, De (in dB) at Octave Band Freq. (Hz)					
600 mm long	125	250	500	1000	2000	4000
DS20-200	3	8	16	18	13	8
DS20-150	3	9	20	23	17	11
DS20-100	4	11	25	31	22	15
DS20-75	5	12	29	36	26	18

**Order Code**

DS / 0 / 20 - 100 / 0 / 800 X 800 X 1200

**Type**

DS - Attenuator type  
DK - Splitters only to be installed in ductwork by others.

**Construction variants**

0 - With vertical air ways (Standard supply)  
**Note:** for other variants, please refer to product catalogue.

Width of splitter and air gap

**Attenuator size**

Width by Height by unit length in mm.  
Standard length available (mm):  
600; 900; 1200; 1500; 1800; 2100 and 2400.

**Material**

0 - Galvanised steel (Standard supply)  
S - Stainless steel. Customer to state grade of stainless steel required.

**Note:** For further details, please refer to TROX KLIMA Asia Pacific catalogue Ref. M 6/ 1.1/ EN/--.