

## Silencers - rectangular silencers

### Standard Range

Attenuators are constructed from galvanised sheet metal. Where matching flanges are not ordered, holes are not drilled as standard. End flange dimensions differ due to silencer size and weight. Please refer to your Systemair NZ technical team for project specific details.

Sound absorption material used is high performance and bio soluble in addition to holding fire-resistant (AS/NZS 1530.3:1999) and non-hygroscopic properties.

Special materials and finishes are available upon request. Typical special finishes include stainless steel, epoxy coating and project specific colours.

### M – Line Range

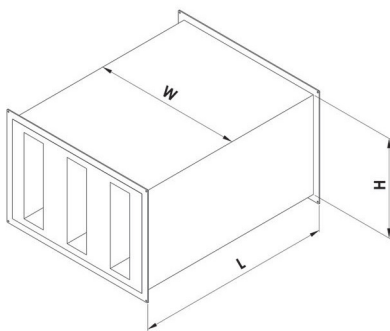
In addition to the construction details of the standard range, the M-Line range of attenuators offers protection from water/and or grease ingress by way of an impervious lining.

Typical applications include clean rooms, hospitals, kitchen exhaust and where equipment is exposed to weather.

### Testing

The acoustic performance of Systemair NZ attenuators has been determined by testing in accordance with BS4718:1971

### Ordering Example - RST275B3090-R



RST 275 B 3 0950 - R

#### Configuration

RST - Rectangular standard tapered  
 RSS - Rectangular standard straight  
 RMT - Rectangular M-Line tapered  
 RMS - Rectangular M-Line straight

#### Module Width in mm

275	300	325	350
375	400	425	450

#### Length

A = 600	B = 900	C = 1200	D = 1500
E = 1800	F = 2100	G = 2400	H = 2700
I = 3000			

#### Number of Modules

(width is the function of module width multiplied by number of modules)

i.e. 275 x 3 = 825 mm wide

#### Height in mm

#### Special Requirements

Epoxy - R 316  
 s/steel - S 304  
 s/steel - Q  
 Colour - C

### Calculating Rectangular Silencer Weight

Weight = Weight factor x (13m + 0.035h + 11.5) - 18

m = no. of modules

h = height in mm

**Example:**

RST325B20800

= 1.47 x (26 + 28 + 11.5) - 18

= 1.47 x 65.5 - 18

= 78 kg

Weight Factors				
Length (mm)	Standard Straight	Standard Tapered	M-Line Straight	M-Line Tapered
600	0.98	1.05	0.99	1.06
900	1.37	1.47	1.38	1.48
1200	1.76	1.88	1.78	1.90
1500	2.15	2.30	2.17	2.32
1800	2.54	2.72	2.57	2.74
2100	2.93	3.14	2.96	3.16
2400	3.32	3.55	3.35	3.59
2700	3.71	3.97	3.75	4.01
3000	4.10	4.39	4.14	4.43

## Performance Data - Standard Straight/Tapered Rectangular Silencers

Model	Length	Straight Splitters (RSS)								Tapered Splitters (RST)								Module Widths mm
		Insertion Loss - Octave Band								Insertion Loss - Octave Band								
		63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K	
RSS/T250A	600	6	11	22	31	41	41	33	24	5	6	15	24	32	31	20	17	250, 500, 750, 1000, 1250, 1500, 1750 ,2000, 2250
RSS/T250B	900	7	12	24	36	46	44	36	30	5	11	19	34	40	35	28	23	
RSS/T250C	1200	8	18	31	49	51	51	48	41	7	14	25	40	44	40	34	27	
RSS/T250D	1500	9	19	35	50	51	51	50	44	7	17	31	47	49	43	35	28	
RSS/T250E	1800	10	23	42	51	51	52	50	47	9	21	35	52	50	46	38	33	
RSS/T250F	2100	12	27	45	52	51	51	50	50	10	24	42	51	49	47	44	42	
RSS/T250G	2400	14	28	50	51	52	51	50	52	11	26	45	51	52	49	46	44	
RSS/T250H	2700	16	31	56	52	52	51	51	58	14	31	51	54	51	50	51	55	
RSS/T250I	3000	17	37	56	51	51	52	51	55	14	32	54	50	53	51	55	56	
RSS/T275A	600	5	11	22	31	42	41	32	24	5	7	14	24	31	31	20	17	
RSS/T275B	900	6	12	23	37	46	44	37	29	5	11	20	34	40	34	28	23	
RSS/T275C	1200	9	17	30	48	52	51	47	39	6	14	24	40	45	39	34	27	
RSS/T275D	1500	9	21	36	49	51	51	49	42	8	16	31	48	48	44	36	28	
RSS/T275E	1800	10	22	42	51	51	51	50	47	8	19	36	52	50	47	38	32	
RSS/T275F	2100	13	26	46	51	51	50	51	52	11	25	40	51	50	47	44	42	
RSS/T275G	2400	14	29	49	51	52	50	51	50	11	27	45	52	51	48	47	44	
RSS/T275H	2700	15	31	57	51	52	51	51	59	13	31	53	55	51	50	53	56	
RSS/T275I	3000	17	37	56	51	51	51	52	56	15	31	55	52	52	52	53	56	
RSS/T300A	600	5	11	17	26	33	32	25	20	4	7	11	20	29	25	16	14	300, 600, 900, 1200, 1500, 1800, 2100, 2400
RSS/T300B	900	5	10	19	32	40	37	28	22	5	10	16	30	36	29	21	17	
RSS/T300C	1200	7	14	28	43	48	46	39	27	6	13	23	40	44	37	29	21	
RSS/T300D	1500	9	17	31	48	51	50	44	32	6	14	25	44	45	41	33	21	
RSS/T300E	1800	10	18	35	49	52	51	49	37	8	16	32	50	49	44	35	27	
RSS/T300F	2100	11	21	42	50	52	51	52	37	8	19	36	50	49	45	44	31	
RSS/T300G	2400	11	24	45	51	52	51	51	40	8	21	40	52	51	51	45	33	
RSS/T300H	2700	12	25	51	55	50	52	58	45	8	24	46	57	53	52	54	39	
RSS/T300I	3000	14	29	54	51	51	52	54	43	9	25	48	52	53	58	55	39	
RSS/T325A	600	4	10	16	24	28	27	20	17	3	6	11	13	24	23	11	11	
RSS/T325B	900	5	9	18	28	36	33	23	19	4	9	16	28	34	27	18	16	
RSS/T325C	1200	5	11	23	38	45	41	30	21	6	10	21	36	39	33	23	18	
RSS/T325D	1500	6	14	27	45	48	45	35	24	6	12	25	43	42	38	27	19	
RSS/T325E	1800	7	15	33	49	52	49	40	28	6	15	30	47	47	42	33	22	
RSS/T325F	2100	9	17	36	52	51	51	44	31	8	18	33	51	48	43	39	25	
RSS/T325G	2400	9	21	40	52	51	52	46	34	9	19	39	52	50	46	40	28	
RSS/T325H	2700	11	22	45	58	54	56	53	37	9	21	40	59	53	51	51	28	
RSS/T325I	3000	12	26	48	53	52	53	51	36	11	26	48	57	57	53	48	32	
RSS/T350A	600	4	8	14	23	28	24	16	12	2	5	10	11	22	17	12	9	350, 700, 1050, 1400, 1750, 2100
RSS/T350B	900	4	8	16	26	32	29	19	15	3	7	14	22	29	21	15	13	
RSS/T350C	1200	6	9	20	33	40	36	24	17	4	10	19	32	36	28	20	13	
RSS/T350D	1500	5	12	25	41	46	40	27	19	4	11	22	37	41	33	22	15	
RSS/T350E	1800	6	15	29	46	50	47	34	21	6	15	28	44	46	36	28	19	
RSS/T350F	2100	8	17	33	50	51	51	38	24	7	16	30	47	48	41	33	20	
RSS/T350G	2400	9	18	37	51	50	50	43	27	6	19	36	49	51	43	35	22	
RSS/T350H	2700	9	20	41	60	57	62	50	31	7	21	39	56	52	51	46	26	
RSS/T350I	3000	10	24	43	56	52	55	50	31	8	23	42	58	56	43	48	26	

## Performance Data - Standard Straight/Tapered Rectangular Silencers

Model	Length	Straight Splitters (RSS)								Tapered Splitters (RST)								Module Widths mm
		Insertion Loss - Octave Band								Insertion Loss - Octave Band								
		63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K	
RSS/T375A	600	5	6	15	22	27	22	16	10	3	4	9	12	21	14	11	8	375,750, 1125, 1500, 1875, 2250  Open Area 47%
RSS/T375B	900	5	9	16	26	30	27	17	11	4	6	14	22	27	20	13	9	
RSS/T375C	1200	6	10	19	31	37	30	20	16	5	9	19	29	31	25	14	12	
RSS/T375D	1500	5	11	24	39	43	36	24	17	5	11	20	34	36	27	18	13	
RSS/T375E	1800	7	12	25	41	45	44	28	20	5	12	27	38	41	33	22	16	
RSS/T375F	2100	6	15	31	48	48	48	29	21	6	15	30	46	45	39	25	16	
RSS/T375G	2400	9	18	36	47	50	47	34	23	7	18	33	47	51	40	26	18	
RSS/T375H	2700	10	17	39	60	58	57	35	23	6	17	36	57	53	49	33	18	
RSS/T375I	3000	10	21	43	57	56	61	38	23	7	19	42	59	59	51	34	18	
RSS/T400A	600	5	7	14	22	24	18	15	10	2	3	9	11	19	12	9	6	400,800, 1200, 1600, 2000, 2400  Open Area 50%
RSS/T400B	900	4	8	14	23	25	22	15	10	3	6	11	19	22	14	11	8	
RSS/T400C	1200	4	10	16	26	34	28	18	12	3	8	16	24	30	21	12	10	
RSS/T400D	1500	6	11	22	33	39	31	20	14	5	11	18	28	34	22	15	10	
RSS/T400E	1800	6	11	25	38	44	37	24	16	5	11	25	34	40	28	17	11	
RSS/T400F	2100	7	14	29	43	49	40	21	17	6	14	29	41	45	32	17	11	
RSS/T400G	2400	8	16	30	46	50	41	27	18	6	16	30	44	48	33	20	14	
RSS/T400H	2700	9	17	38	57	60	50	23	18	6	19	37	52	56	40	19	13	
RSS/T400I	3000	9	19	40	54	57	54	27	18	6	20	39	57	59	43	24	14	
RSS/T425A	600	4	8	13	19	20	17	14	8	1	4	7	9	14	11	8	6	425,850, 1275, 1700, 2125 Open Area 53%
RSS/T425B	900	4	6	14	22	24	20	13	10	3	6	12	17	20	12	10	8	
RSS/T425C	1200	5	9	15	21	31	24	16	12	3	9	15	20	25	19	11	8	
RSS/T425D	1500	4	9	19	30	35	28	16	12	4	8	16	27	30	22	10	7	
RSS/T425E	1800	6	8	22	32	40	34	19	12	4	10	22	30	35	23	13	9	
RSS/T425F	2100	6	13	27	38	45	37	19	14	4	12	25	37	42	26	15	10	
RSS/T425G	2400	8	15	28	42	43	38	25	16	6	12	27	41	43	31	16	12	
RSS/T425H	2700	8	16	36	52	57	44	22	17	5	17	35	49	52	33	18	9	
RSS/T425I	3000	10	17	34	50	47	49	25	19	7	16	33	50	51	40	23	13	
RSS/T450H	2700	4	6	10	20	13	13	9	6	1	4	5	10	10	5	5	5	450,900, 1350, 1800, 2250 Open Area 56%
RSS/T450I	3000	2	7	11	18	17	15	10	7	1	4	7	12	12	8	7	6	
RSS/T450A	600	3	6	11	19	21	18	12	7	1	5	11	16	17	10	7	5	
RSS/T450B	900	2	8	14	26	23	23	13	9	2	7	12	22	19	13	8	5	
RSS/T450C	1200	4	4	14	29	30	28	16	9	2	6	16	27	25	18	9	6	
RSS/T450D	1500	4	7	18	32	33	27	15	13	2	8	17	29	28	18	10	7	
RSS/T450E	1800	5	10	21	35	33	28	19	13	2	8	19	34	33	22	12	8	
RSS/T450F	2100	6	6	23	42	41	34	16	14	4	8	22	39	38	23	14	8	
RSS/T450G	2400	6	12	23	39	37	37	18	15	3	10	22	40	39	25	15	10	

## Performance Data - M-Line Straight/Tapered Rectangular Silencers

Model	Length	Straight Splitters (RMS)								Tapered Splitters (RMT)								Module Widths mm
		Insertion Loss - Octave Band								Insertion Loss - Octave Band								
		63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K	
RMS/T250A	600	5	9	18	26	30	29	25	16	3	6	11	18	21	19	13	10	250, 500, 750, 1000, 1250, 1500, 1750 ,2000, 2250
RMS/T250B	900	6	9	18	28	35	34	27	20	4	9	15	25	30	26	18	13	
RMS/T250C	1200	7	14	27	39	45	46	38	29	6	10	20	32	39	33	23	18	
RMS/T250D	1500	9	16	32	44	51	46	43	35	7	15	27	41	49	39	29	22	
RMS/T250E	1800	9	21	38	44	52	47	44	37	8	17	33	45	52	43	31	25	
RMS/T250F	2100	12	22	39	47	52	49	42	34	10	21	35	47	52	45	34	27	
RMS/T250G	2400	12	26	44	49	53	50	40	36	11	23	39	51	53	47	36	28	
RMS/T250H	2700	13	27	47	50	54	51	39	36	12	26	43	52	56	51	39	31	
RMS/T250I	3000	15	32	46	55	55	51	38	33	13	27	46	55	55	53	41	31	
RMS/T275A	600	4	10	19	24	30	28	24	16	4	7	10	19	20	19	14	10	
RMS/T275B	900	5	10	19	29	35	36	27	21	5	8	15	26	30	26	18	13	
RMS/T275C	1200	7	14	27	40	46	46	37	30	5	12	21	33	39	33	24	18	
RMS/T275D	1500	9	17	34	44	51	47	43	36	7	15	26	41	49	38	29	22	
RMS/T275E	1800	10	19	38	45	53	48	43	36	7	17	33	46	52	42	31	25	
RMS/T275F	2100	11	21	41	47	53	49	42	36	10	21	34	48	52	46	34	27	
RMS/T275G	2400	12	26	44	49	54	51	40	34	11	24	39	51	53	48	36	29	
RMS/T275H	2700	14	28	47	51	54	50	40	36	12	27	44	54	55	52	39	31	
RMS/T275I	3000	16	31	47	55	53	53	38	33	13	27	46	55	56	53	40	32	
RMS/T300A	600	4	11	16	24	23	21	20	16	3	6	9	16	17	15	11	8	300, 600, 900, 1200, 1500, 1800, 2100, 2400
RMS/T300B	900	6	9	17	25	28	27	20	18	5	8	14	24	24	22	15	11	
RMS/T300C	1200	6	11	22	30	38	36	28	20	6	10	18	28	34	25	18	14	
RMS/T300D	1500	8	17	28	38	46	42	33	26	7	13	22	35	41	30	22	16	
RMS/T300E	1800	10	19	32	39	46	44	37	29	7	15	26	40	44	35	25	19	
RMS/T300F	2100	12	21	35	43	49	43	35	26	9	17	30	44	47	38	26	20	
RMS/T300G	2400	12	23	38	47	49	43	36	28	8	20	34	47	48	43	30	20	
RMS/T300H	2700	15	25	43	47	52	46	35	28	10	24	37	50	53	47	32	24	
RMS/T300I	3000	13	28	47	55	51	43	33	28	10	23	41	54	53	51	34	24	
RMS/T325A	600	5	7	15	24	20	17	17	14	4	5	8	16	15	13	8	7	
RMS/T325B	900	4	9	13	23	24	22	16	15	5	7	13	21	23	18	12	10	
RMS/T325C	1200	4	10	18	29	33	33	25	16	4	9	16	27	30	23	17	13	
RMS/T325D	1500	7	12	21	35	41	35	27	19	5	12	19	34	37	28	19	14	
RMS/T325E	1800	7	13	26	40	45	41	31	24	7	12	24	37	41	32	22	14	
RMS/T325F	2100	9	15	31	42	47	43	29	24	8	14	28	40	44	36	25	17	
RMS/T325G	2400	9	17	32	43	46	45	31	25	8	17	30	43	47	39	25	19	
RMS/T325H	2700	10	18	40	47	53	51	30	29	9	17	36	49	51	43	30	21	
RMS/T325I	3000	12	19	37	49	49	46	34	28	10	20	37	51	54	48	31	22	
RMS/T350A	600	4	6	13	24	19	18	13	11	2	3	7	14	14	11	8	8	350,700, 1050, 1400, 1750, 2100
RMS/T350B	900	5	9	13	23	24	23	16	12	3	5	11	20	19	14	10	9	
RMS/T350C	1200	5	8	15	27	31	27	19	15	3	7	15	26	26	21	14	11	
RMS/T350D	1500	5	9	20	35	37	33	23	16	4	10	19	31	31	24	17	11	
RMS/T350E	1800	5	9	23	36	40	40	26	18	4	11	22	35	37	30	20	13	
RMS/T350F	2100	7	13	26	41	43	42	24	19	6	13	25	39	40	32	20	16	
RMS/T350G	2400	8	15	29	44	43	43	29	22	6	14	27	41	42	35	22	17	
RMS/T350H	2700	11	15	33	50	54	49	25	24	8	17	32	48	47	38	24	18	
RMS/T350I	3000	12	17	35	46	46	53	28	26	8	17	34	50	49	41	24	22	

## Performance Data - M-Line Straight/Tapered Rectangular Silencers

Model	Length	Straight Splitters (RMS)								Tapered Splitters (RMT)								Module Widths mm
		Insertion Loss - Octave Band								Insertion Loss - Octave Band								
		63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K	
RMS/T375A	600	4	7	12	22	19	16	11	9	3	4	7	12	14	11	6	7	375,750, 1125, 1500, 1875, 2250  Open Area 47%
RMS/T375B	900	5	7	12	21	21	20	13	10	3	5	11	17	18	13	10	7	
RMS/T375C	1200	4	7	15	25	26	24	17	11	3	8	14	24	23	16	11	7	
RMS/T375D	1500	4	9	18	33	34	28	20	13	4	7	17	27	29	22	14	10	
RMS/T375E	1800	5	8	19	35	38	37	21	14	4	10	20	33	35	26	16	9	
RMS/T375F	2100	6	10	24	37	41	36	20	16	4	12	23	36	38	26	17	12	
RMS/T375G	2400	7	14	27	42	41	38	27	16	4	12	26	41	40	29	19	12	
RMS/T375H	2700	8	13	30	48	50	43	22	19	5	14	28	45	45	33	21	13	
RMS/T375I	3000	9	15	32	44	44	45	25	18	6	14	30	47	49	34	22	14	
RMS/T400A	600	4	7	13	21	16	15	11	8	2	4	7	12	10	9	6	4	
RMS/T400B	900	3	7	11	21	20	18	12	8	2	5	10	16	17	11	8	7	
RMS/T400C	1200	3	7	15	24	25	23	14	9	2	6	12	20	20	16	9	6	
RMS/T400D	1500	3	9	17	32	30	26	16	11	2	7	15	27	25	19	8	7	
RMS/T400E	1800	5	8	19	33	34	33	19	13	4	9	20	31	29	22	11	10	
RMS/T400F	2100	5	10	23	38	37	33	18	15	4	10	21	36	33	23	14	10	
RMS/T400G	2400	5	11	23	40	36	33	23	16	3	11	23	39	37	26	16	12	
RMS/T400H	2700	8	11	28	47	46	39	21	19	5	14	27	42	43	29	19	11	
RMS/T400I	3000	6	14	27	43	42	41	23	18	4	13	27	45	46	30	20	14	
RMS/T425A	600	4	5	10	20	15	15	10	8	1	4	6	10	11	8	5	6	425,850, 1275, 1700, 2125 Open Area 53%
RMS/T425B	900	3	5	9	17	18	17	11	8	3	4	8	14	14	9	6	5	
RMS/T425C	1200	3	7	12	21	21	20	14	9	2	6	12	18	19	14	8	7	
RMS/T425D	1500	4	6	15	28	28	25	14	9	2	5	13	23	21	16	8	7	
RMS/T425E	1800	4	5	17	32	33	30	16	10	2	8	17	29	26	20	11	7	
RMS/T425F	2100	3	8	21	35	34	31	15	12	3	8	19	32	32	22	11	7	
RMS/T425G	2400	6	12	23	39	36	33	23	16	3	11	24	37	36	26	15	10	
RMS/T425H	2700	5	10	27	43	45	35	18	16	3	11	25	40	40	25	16	9	
RMS/T425I	3000	8	15	32	46	42	44	25	21	4	15	29	46	46	34	22	15	
RMS/T450H	2700	4	6	12	20	18	15	10	9	1	4	7	9	12	9	5	6	
RMS/T450I	3000	3	7	12	20	20	18	10	8	1	5	10	16	18	12	7	7	
RMS/T450A	600	3	9	15	20	26	23	14	10	3	7	13	16	23	16	9	7	450,900, 1350, 1800, 2250 Open Area 56%
RMS/T450B	900	5	8	18	26	31	27	16	12	4	8	15	23	27	20	10	8	
RMS/T450C	1200	5	8	20	28	36	29	16	12	3	10	21	25	30	18	10	7	
RMS/T450D	1500	5	12	26	34	41	34	15	13	5	12	24	31	37	25	11	8	
RMS/T450E	1800	7	13	28	37	39	37	21	15	5	12	26	38	39	29	14	9	
RMS/T450F	2100	9	13	30	43	49	41	16	17	6	14	29	38	42	31	14	9	
RMS/T450G	2400	9	17	31	43	42	45	20	15	6	15	29	45	45	36	16	10	