

**“Gudi”** is your partner in creative solutions for acoustical problems. We have wide range of comprehensive solution for every environmental and indoor acoustic.

**Sonic Armour SIL Acoustical solution for Mechanical Noise** included Silencers, Acoustic Louvre, Acoustic Enclosure with all fixing elements & accessories.

#### Element A. SA27 Flexible Acoustic Blankets

**Standard Panel Dimension:** 1000 x 2000mm

**Panel Thickness:** 18mm

**Surface Density:** 7kg/m<sup>2</sup>

**Colour Selection:** in **“Gudi”** Colour range. Blue & Green is Standard colour.

**Acoustic Performance:** STC27 / Rw27

#### Performance Criteria:

The sonic armour and its assemblies shall provide the minimum sound transmission loss when tested in accordance with ISO140-3:1995 and individual transmission loss shall be as follows: -

Frequency (Hz)	<b>125</b>	<b>250</b>	<b>500</b>	<b>1K</b>	<b>2K</b>	<b>4K</b>
<b>Sound Reduction Index 1/1(dB)</b>	16	18	22	26	35	47



#### Element B. SIL Rectangular Duct Silencers

**Standard Length:** 600mm – 2400mm

**Model:** SIL-20/L

**Free Area:** 20%

**Static Insertion Loss (dB):**

Length (mm)	“K” Value	Octave Band Centre Frequency (Hz):							
		63	125	250	500	1K	2K	4K	8K
600	2.3	6	10	16	26	30	30	26	22
900	3.4	9	16	24	37	48	50	50	39
1200	5.1	11	21	31	49	50	50	50	46
1500	8.04	14	25	39	50	50	50	50	50
1800	12.1	16	29	46	50	50	50	50	50
2100	16.52	18	33	50	50	50	50	50	50
2400	21	20	37	50	50	50	50	50	50



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Model: SIL-33L

Free Area: 33%

Static Insertion Loss (dB):

Length (mm)	"K" Value	Octave Band Centre Frequency (Hz):							
		63	125	250	500	1K	2K	4K	8K
600	0.75	4	8	14	20	31	30	24	18
900	0.89	5	10	18	27	34	36	30	21
1200	1.65	6	14	24	37	46	46	40	26
1500	2.3	8	18	27	42	50	50	46	31
1800	3.2	9	19	34	50	50	50	50	39
2100	4.5	11	23	40	50	50	50	50	49
2400	6.5	13	25	45	50	50	50	50	50
2700	8.85	14	27	48	50	50	50	50	50
3000	11.65	15	30	50	50	50	50	50	50

Model: SIL-38L

Free Area: 38%

Static Insertion Loss (dB):

Length (mm)	"K" Value	Octave Band Centre Frequency (Hz):							
		63	125	250	500	1K	2K	4K	8K
600	0.63	3	6	12	16	28	22	16	10
900	0.77	4	8	16	23	30	28	24	16
1200	1.33	5	11	19	28	36	36	28	18
1500	1.93	6	16	23	32	42	42	30	20
1800	2.63	7	18	29	42	47	47	35	26
2100	3.7	8	19	33	48	48	50	44	30
2400	5.17	10	20	38	50	50	50	46	32
2700	6.93	12	20	37	50	50	50	50	50
3000	9.08	13	23	38	50	50	50	50	50

Model: SIL-42L

Free Area: 42%

Static Insertion Loss (dB):

Length (mm)	"K" Value	Octave Band Centre Frequency (Hz):							
		63	125	250	500	1K	2K	4K	8K
600	0.5	2	5	11	13	20	20	12	8
900	0.65	3	7	13	20	23	22	14	10
1200	1	4	9	18	26	32	31	21	12
1500	1.55	5	11	22	34	40	37	23	15
1800	2.06	7	13	26	40	47	44	30	18
2100	2.89	8	15	28	43	50	49	33	21
2400	3.83	9	17	30	48	50	50	38	25
2700	5	10	19	36	50	50	50	44	28
3000	6.5	12	21	40	50	50	50	48	28

Model: SIL-47L

Free Area: 47%

Static Insertion Loss (dB):

Length (mm)	"K" Value	Octave Band Centre Frequency (Hz):							
		63	125	250	500	1K	2K	4K	8K
600	0.4	2	4	9	12	19	19	11	4
900	0.5	2	5	10	17	21	21	13	5
1200	0.69	3	6	13	22	28	28	16	7
1500	1.03	4	8	15	28	35	35	21	11
1800	1.32	5	9	19	33	42	42	25	14
2100	1.88	6	11	22	39	49	49	29	20
2400	2.55	7	13	25	45	50	50	44	24
2700	3.42	9	15	27	47	50	50	46	29
3000	4.47	10	17	29	50	50	50	50	31



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Model: SIL-50L

Free Area: 50%

Static Insertion Loss (dB):

Length (mm)	"K" Value	Octave Band Centre Frequency (Hz):							
		63	125	250	500	1K	2K	4K	8K
600	0.28	1	4	8	10	14	16	10	3
900	0.32	1	4	9	15	18	18	11	6
1200	0.37	2	6	12	20	25	25	14	9
1500	0.5	3	7	13	25	32	31	19	13
1800	0.57	4	8	17	31	37	36	27	19
2100	0.86	5	10	20	35	41	39	27	19
2400	1.26	6	10	21	40	47	43	44	22
2700	1.84	8	12	24	42	48	48	45	26
3000	2.43	10	20	36	44	50	50	48	29

Features of "Gudi" Rectangular Duct Silencers:

- Excellent Aerodynamic profiled splitter Design equipped, as a result of Low Pressure Drop.
- In good connection with HVAC equipment.
- Acoustic and aerodynamic performance data measured in accordance with BS4718.
- Standard Galvanized Steels construction, variations in materials, finish and fixing methods and special feature, upon requested.

Element B. LOU Rectangular Acoustic Louvre

Standard Length: 150mm – 600mm

Static Insertion Loss (dB):

Model	Length (mm):	Octave Band Centre Frequency (Hz):							
		63	125	250	500	1K	2K	4K	8K
15AL	150	2	6	10	12	13	11	9	7
30AL	300	3	9	12	14	15	14	12	10
45AL	450	5	10	14	18	20	20	18	15
60AL	600	8	11	16	23	25	26	25	20



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