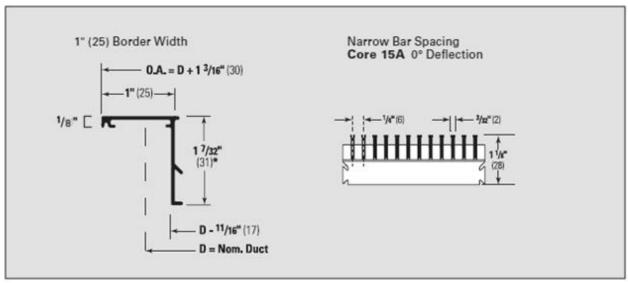


# **Kul grilles - Technical Specifications**





#### **Available Sizes**

For grilles supplied as one unit:

Minimum	Maximum*						
4" x 1-1/2"	72" x 18"						

\*Length, one piece

• Grilles longer than 72" will be supplied in two or more equal sized units complete with alignment splice plates for attachment.

### **Grille Face Overall Dimension**

The dimension on the left (duct size) represents the size of the opening / ductwork. The size on the right represents the overall size of the frame.

Duct Size	External Frame Dimension
1 – ½" (38)	2 – 11/16" (68)
2" - (51)	3 – 3/16" (81)
2 – ½" (63)	3 – 11/16" (94)
3" (76)	4 – 3/16" (106))
3 ½" (89)	4 – 11/16" (119)
4" (102)	5 – 3/16" (132)
5" (127)	6 – 3/16" (157)
6" (152)	7 3/16" (183)

# **Performance Data**

Size	Static Pressure	9	.011	.024	.044	.069	.098	.133	.175	.222
1 <sup>1</sup> / <sub>2</sub> in.  2 in.  2 <sup>1</sup> / <sub>2</sub> in.  3 in.  3 <sup>1</sup> / <sub>2</sub> in.  4 in.	Flow cfm / ft		12	19	25	31	37	43	50	56
	NC					19	24	28	32	35
	Throw	Sill or Floor	1-1-1	2-2-2	4-4-4	6-6-6	8-8-9	9-10-11	10-11-13	12-13-1
	ft	Sidewall	2-4-6	4-7-10	6-9-13	7-11-16	8-13-19	9-15-21	50 32	12-18-2
	Flow cfm / ft		19	28	37	47	56	28 9 9-10-11 10- 19 9-15-21 10- 6 66 8 28 1-12 12-13-15 14- 6-22 12-18-25 14- 8 91 1 29 1-15 15-16-17 16- 1-24 15-21-27 16- 0 116 1 30 20- 1-25 18-23-29 20- 1-25 18-23-29 20- 1-25 18-23-29 20- 1-25 18-23-29 20- 1-25 18-23-29 20- 1-25 18-23-29 20- 1-26 171 1 3 32 1-20 21-22-23 24- 1-29 21-26-32 24- 1-29 21-26-32 24- 1-22 24-24-24 27- 1-3-31 24-29-35 27-	75	84
2 in	NC		_	-	_	18	23	28	31	35
2 111.	Throw	Sill or Floor	1-1-1	4-4-4	6-6-6	9-9-9	11-11-12	12-13-15	14-15-17	15-17-
	ft	Sidewall	3-5-7	5-8-11	7-11-15	9-14-19	11-16-22	12-18-25	14-20-27	15-22-
	Flow cfm / ft		26	39	52	65	78	91	104	117
a1/ ·	NC		-	-	-	19	24	29	33	36
21/2 In.	Throw	Sill or Floor	1-1-1	5-5-5	8-8-8	10-10-11	13-14-15	15-16-17	16-18-20	20-20-2
	ft	Sidewall	4-6-8	6-9-12	8-12-16	10-15-20	13-18-24	15-21-27	16-22-30	20-27-
	Flow cfm / ft		33	50	66	83	100	116	133	149
2 in	NC		-	_	_	20	25	30	34	37
300000	Throw	Sill or Floor	2-2-2	6-6-6	9-9-10	12-12-13	15-16-17	18-19-20	20-21-22	23-23-
	ft	Sidewall	4-6-9	7-10-14	9-13-18	12-17-22	15-20-25	18-23-29	32 10-11-13 10-16-23 75 31 5 14-15-17 5 14-20-27 104 33 7 16-18-20 7 16-22-30 133 34 0 20-21-22 9 20-26-33 163 35 2 22-23-24 1 22-28-35 195 36 3 24-24-25 2 24-30-36 251 36 4 27-27-27 5 27-33-39 310 37	23-30-
Flow cf	Flow cfm / ft		41	61	82	102	122	143	163	184
	NC		-	-	-	21	26	31	35	38
31/2 In.	Throw	Sill or Floor	2-2-2	7-7-7	10-10-11	15-15-15	17-18-19	20-21-22	22-23-24	25-25-
	ft	Sidewall	5-7-10	8-11-15	10-15-20	15-19-24	17-22-27	20-25-31	22-28-35	25-32-
	Flow cfm / ft		49	73	98	122	146	171	195	220
	NC		_		16	22	28	32	36	39
	Throw	Sill or Floor	3-3-3	8-8-8	12-12-13	15-15-16	19-19-20	21-22-23	24-24-25	26-26-
	ft	Sidewall	6-8-11	9-12-16	12-16-20	15-20-25	19-24-29	18-19-20         20-21-22           18-23-29         20-26-33           143         163           31         35           20-21-22         22-23-24           20-25-31         22-28-35           171         195           32         36           21-22-23         24-24-25           21-26-32         24-30-36           220         251	24-30-36	26-33-
5 in	Flow cfm / ft		63	94	125	157	188	220	251	282
	NC		_	_	16	22	27	32	36	39
	Throw	Sill or Floor	4-4-4	9-9-9	14-14-14	17-17-17	21-21-22	24-24-24	27-27-27	29-29-2
	ft	Sidewall	7-9-12	11-14-18	14-18-22	17-21-26	21-26-31	8         220         251           32         36           -22         24-24-24         27-27-27           -31         24-29-35         27-33-33	27-33-39	30-36-
Flow c	Flow cfm / ft	1	78	116	155	194	233	272	310	349
	NC		_	-	18	24	29	34	37	41
o III.	Throw	Sill or Floor	5-5-5	10-10-10	15-15-15	18-18-18	23-23-23	25-25-25	28-28-29	31-31-3
	ft	Sidewall	8-10-13	12-15-19	15-19-23	20-24-28	23-27-32	26-31-37	29-34-40	33-39-4

#### Notes:

Tested in accordance with ASHRAE Standard 70-2006

#### 1. Pressure

All pressures are in inches of water

#### 2. Sound

The NC values are based on a room absorption of 10 dB re  $10^{-12}$  Watts and a 10 ft. active section.

The NC correction values for other lengths are listed in the table below.

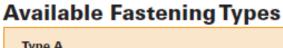
## **NC Correction for Length**

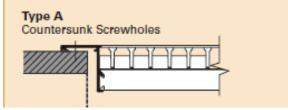
Active Length in Ft.	1	2	4	6	8	10	15	20	25	30
Correction	-10	-7	-4	-2	-1	0	+2	+3	+4	+5

## 3. Return Air Applications

When used as a return air intake, the NC value given in the performance table will be increased by 4. For return air application, the negative static pressure will be 0.8 times the static pressure value as shown in the performance table.

4. Blanks (—) spaces indicate an NC level below 15.



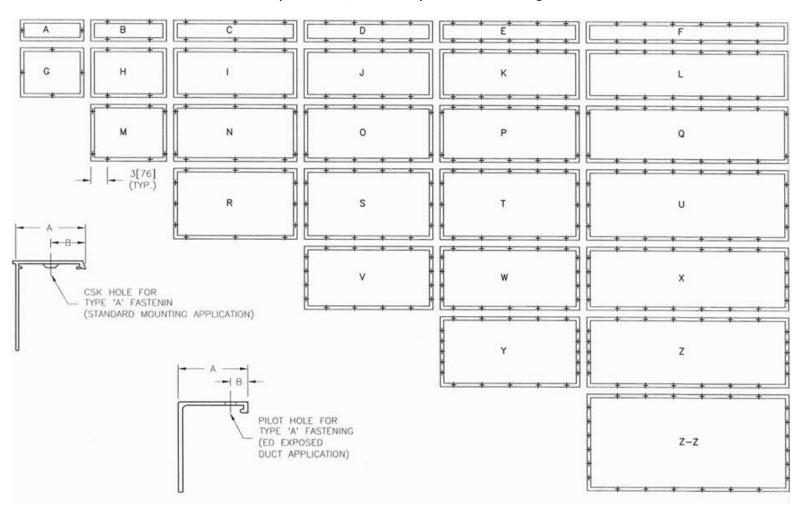


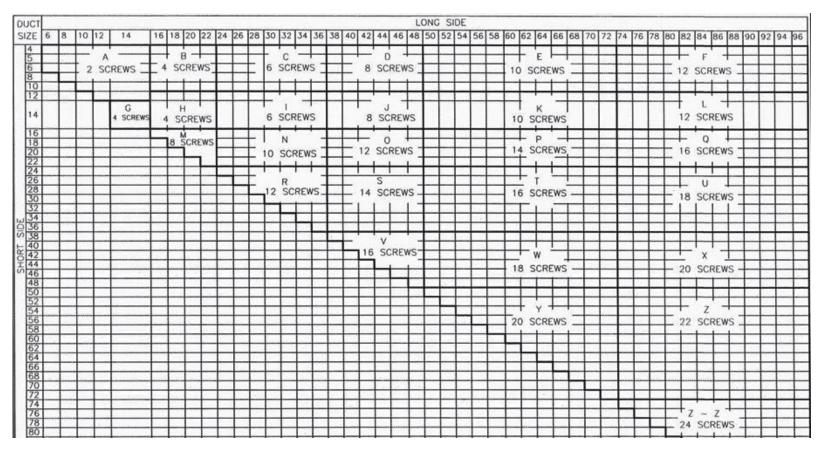
Countersunk screwholes are visible from the face of the grille and are required when mounting for sidewall and ceiling application.

Color matched screws are provided with each order



# Screw placement / Screws required for different grille sizes:





#### **General Information:**

Kul grilles are manufactured from aluminum and have a clean, minimalist style. Kul grilles are suitable for all residential floor, wall and ceiling application.

- Extruded aluminum pressed core construction
- Welded / reinforced corners for floor use
- Core bars are supplied parallel to the long dimension
- Core is fixed