



HD - HEAVY DUTY BAR GRILLES AND GRILLE CORES

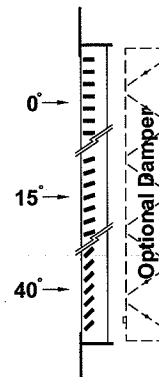
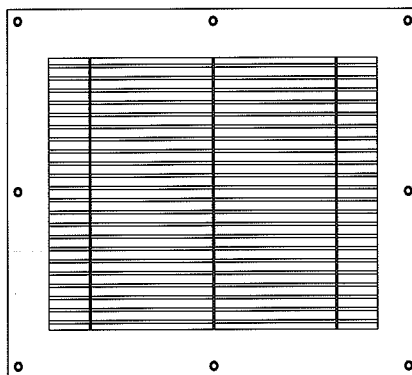
GHD - GYM GRILLES

CONSTRUCTION:

- 1/8" x 1/2" horizontal blades on 1/2" centers penetrating 14 gauge vertical support bars on 6" centers and welded to 1-1/2" long, 14 ga. steel sleeve.
- 14 gauge steel flange stitch welded to sleeve.
- Blade deflection of 40° is standard (GHD40), 15° (GHD15) or 0° (GHD0) deflection are available.
- Countersunk screw holes on maximum 10" centers with Phillips flat head screws.
- White 2-component polyurethane finish.

OPTIONS:

- Security screws.
- Face operated damper (requires 4" sleeve).
- No screw holes.
- Aluminum construction with mill finish standard. Clear or bronze anodized finish optional.
- Stainless steel construction type 304 or 316. Mill finish standard, satin finish optional.
- Other blade or support spacing.
- Hinged faces.
- Filter grilles.
- Extended sleeves.
- Debris screen.
- Larger sizes.
- Sub-frame 24 ga.
- Other paint finishes.



Single piece construction to 72" x 48".
Sizes over 48" in either dimension will have 10 ga. steel flange and sleeve.



**CHD GRILLE CORES
(NO FLANGE) ARE
ALSO AVAILABLE**

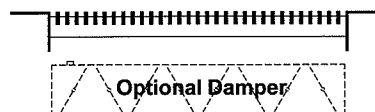
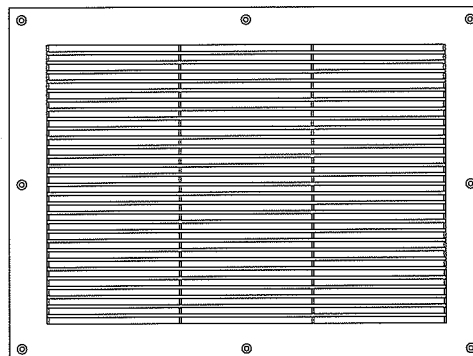
FHD - FLOOR GRILLES

CONSTRUCTION:

- 1/8" x 1/2" horizontal blades, 3/8" centers supported by 14 gauge vertical bars on 6" centers.
- 0° blade deflection is standard (FHD0).
- All welded, heavy steel construction. 14 ga. steel sleeve and flange. Sleeve is 1-1/2" long.
- Countersunk screw holes, maximum 10" centers with Phillips flat head screws.
- White 2-component polyurethane finish.

OPTIONS:

- Security screws.
- Face operated damper (requires 4" sleeve).
- No screw holes.
- Other blade or support bar spacing available.
- Debris screen.
- Other finishes.
- Other gauges.
- Aluminum construction.
- Stainless steel construction.



GHD PERFORMANCE

RETURN AIR 40 DEGREE DEFLECTION

Nominal Size		Nom. Duct ft ²	Core Area ft ²	Core Vel, fpm	300	400	500	600	700	800	900	1000
W Width	H Height			P _s	-0.06	-0.11	-0.18	-0.26	-0.35	-0.46	-0.58	-0.71
6"	6"	0.25	0.16	CFM	50	60	80	90	110	130	140	160
				NC	<20	23	29	34	39	42	46	48
12"	12"	1.00	0.80	CFM	240	320	400	480	560	640	720	800
				NC	23	30	37	42	46	49	53	56
16"	16"	1.78	1.51	CFM	450	600	760	910	1060	1210	1360	1510
				NC	25	33	39	44	49	52	55	58
24"	18"	3.00	2.65	CFM	790	1060	1320	1590	1850	2120	2380	2650
				NC	28	36	42	47	51	55	58	61
24"	24"	4.00	3.59	CFM	1080	1440	1800	2160	2520	2880	3230	3590
				NC	29	37	43	48	52	56	59	62
36"	36"	9.00	8.39	CFM	2520	3350	4190	5030	5870	6710	7550	8390
				NC	33	41	47	52	56	60	63	66
48"	24"	8.00	7.39	CFM	2220	2950	3690	4430	5170	5910	6650	7390
				NC	32	40	46	51	55	59	62	65
48"	48"	16.00	15.18	CFM	4550	6070	7590	9110	10620	12140	13660	15180
				NC	35	43	49	54	59	62	65	68

RETURN AIR 0 DEGREE DEFLECTION

Nominal Size		Nom. Duct ft ²	Core Area ft ²	Core Vel, fpm	300	400	500	600	700	800	900	1000
W Width	H Height			P _s	-0.01	-0.02	-0.03	-0.04	-0.06	-0.08	-0.10	-0.12
6"	6"	0.25	0.16	CFM	50	60	80	90	110	130	140	160
				NC	<20	<20	<20	<20	<20	21	24	27
12"	12"	1.00	0.80	CFM	240	320	400	480	560	640	720	800
				NC	<20	<20	<20	20	24	28	31	34
16"	16"	1.78	1.51	CFM	450	600	760	910	1060	1210	1360	1510
				NC	<20	<20	<20	23	27	31	34	36
24"	18"	3.00	2.65	CFM	790	1060	1320	1590	1850	2120	2380	2650
				NC	<20	<20	21	26	30	33	36	39
24"	24"	4.00	3.59	CFM	1080	1440	1800	2160	2520	2880	3230	3590
				NC	<20	<20	22	27	31	34	37	40
36"	36"	9.00	8.39	CFM	2520	3350	4190	5030	5870	6710	7550	8390
				NC	<20	20	26	31	35	38	41	44
48"	24"	8.00	7.39	CFM	2220	2950	3690	4430	5170	5910	6650	7390
				NC	<20	20	25	30	34	38	41	43
48"	48"	16.00	15.18	CFM	4550	6070	7590	9110	10620	12140	13660	15180
				NC	<20	23	28	33	37	41	44	46

-Data determined in accordance with ANSI/ASHRAE Standard 70-91.

-NC noise criteria based on room attenuation of 10 dB from sound power levels, re:10⁻¹² watts.

-P_s is static pressure, inches of water.

Additional performance data is available from the KEES website www.kees.com

GHD PERFORMANCE

SUPPLY AIR 40 DEGREE DEFLECTION

Nominal Size		Nom. Duct ft ²	Core Area ft ²	Core Vel, fpm	300	400	500	600	700	800	900	1000
W Width	H Height			P _s	0.05	0.09	0.13	0.19	0.26	0.34	0.43	0.53
6"	6"	0.25	0.16	CFM	50	60	80	90	110	130	140	160
				NC	<20	23	29	34	39	42	46	48
12"	12"	1.00	0.80	CFM	240	320	400	480	560	640	720	800
				NC	23	30	37	42	46	49	53	56
16"	16"	1.78	1.51	CFM	450	600	760	910	1060	1210	1360	1510
				NC	25	33	39	44	49	52	55	58
24"	18"	3.00	2.65	CFM	790	1060	1320	1590	1850	2120	2380	2650
				NC	28	36	42	47	51	55	58	61
24"	24"	4.00	3.59	CFM	1080	1440	1800	2160	2520	2880	3230	3590
				NC	29	37	43	48	52	56	59	62
36"	36"	9.00	8.39	CFM	2520	3350	4190	5030	5870	6710	7550	8390
				NC	33	41	47	52	56	60	63	66
48"	24"	8.00	7.39	CFM	2220	2950	3690	4430	5170	5910	6650	7390
				NC	32	40	46	51	55	59	62	65
48"	48"	16.00	15.18	CFM	4550	6070	7590	9110	10620	12140	13660	15180
				NC	35	43	49	54	59	62	65	68

SUPPLY AIR 0 DEGREE DEFLECTION

Nominal Size		Nom. Duct ft ²	Core Area ft ²	Core Vel, fpm	300	400	500	600	700	800	900	1000
W Width	H Height			P _s	0.01	0.01	0.02	0.03	0.04	0.06	0.07	0.09
6"	6"	0.25	0.16	CFM	50	60	80	90	110	130	140	160
				NC	<20	<20	<20	<20	<20	21	25	28
12"	12"	1.00	0.80	CFM	240	320	400	480	560	640	720	800
				NC	<20	<20	<20	<20	24	28	32	35
16"	16"	1.78	1.51	CFM	450	600	760	910	1060	1210	1360	1510
				NC	<20	<20	<20	22	27	31	35	38
24"	18"	3.00	2.65	CFM	790	1060	1320	1590	1850	2120	2380	2650
				NC	<20	<20	<20	25	29	33	37	40
24"	24"	4.00	3.59	CFM	1080	1440	1800	2160	2520	2880	3230	3590
				NC	<20	<20	20	26	31	35	38	41
36"	36"	9.00	8.39	CFM	2520	3350	4190	5030	5870	6710	7550	8390
				NC	<20	<20	24	30	34	38	42	45
48"	24"	8.00	7.39	CFM	2220	2950	3690	4430	5170	5910	6650	7390
				NC	<20	<20	24	29	34	38	41	45
48"	48"	16.00	15.18	CFM	4550	6070	7590	9110	10620	12140	13660	15180
				NC	<20	20	27	32	37	41	45	48

-Data determined in accordance with ANSI/ASHRAE Standard 70-91.

-NC noise criteria based on room attenuation of 10 dB from sound power levels, re:10⁻¹² watts.

-P_s is static pressure, inches of water.

Additional performance data is available from the KEES website www.kees.com

FHD PERFORMANCE

RETURN AIR 0 DEGREE DEFLECTION

Nominal Size		Nom. Duct ft ²	Core Area ft ²	Core Vel, fpm	300	400	500	600	700	800	900	1000
W Width	H Height				P _s							
6"	6"	0.25	0.22	CFM	70	90	110	130	150	170	200	220
				NC	<20	<20	<20	20	24	27	30	33
12"	12"	1.00	0.93	CFM	280	370	470	560	650	750	840	930
				NC	<20	<20	22	26	30	34	37	40
16"	8"	0.89	0.82	CFM	250	330	410	490	580	660	740	820
				NC	<20	<20	21	26	30	33	36	39
24"	12"	2.00	1.90	CFM	570	760	950	1140	1330	1520	1710	1900
				NC	<20	<20	25	29	33	37	40	43
24"	24"	4.00	3.87	CFM	1160	1550	1930	2320	2710	3090	3480	3870
				NC	<20	22	28	32	36	40	43	46
36"	12"	3.00	2.87	CFM	860	1150	1430	1720	2010	2290	2580	2870
				NC	<20	21	26	31	35	39	42	44
48"	12"	4.00	3.83	CFM	1150	1530	1920	2300	2680	3070	3450	3830
				NC	<20	22	28	32	36	40	43	46
48"	24"	8.00	7.80	CFM	2340	3120	3900	4680	5460	6240	7020	7800
				NC	<20	25	31	35	39	43	46	49

SUPPLY AIR 0 DEGREE DEFLECTION

Nominal Size		Nom. Duct ft ²	Core Area ft ²	Core Vel, fpm	300	400	500	600	700	800	900	1000
W Width	H Height				P _s							
6"	6"	0.25	0.22	CFM	70	90	110	130	150	170	200	220
				NC	<20	<20	<20	<20	23	27	31	34
12"	12"	1.00	0.93	CFM	280	370	470	560	650	750	840	930
				NC	<20	<20	20	25	30	34	37	41
16"	8"	0.89	0.82	CFM	250	330	410	490	580	660	740	820
				NC	<20	<20	<20	25	29	33	37	40
24"	12"	2.00	1.90	CFM	570	760	950	1140	1330	1520	1710	1900
				NC	<20	<20	23	28	33	37	40	44
24"	24"	4.00	3.87	CFM	1160	1550	1930	2320	2710	3090	3480	3870
				NC	<20	<20	26	31	36	40	44	47
36"	12"	3.00	2.87	CFM	860	1150	1430	1720	2010	2290	2580	2870
				NC	<20	<20	24	30	35	39	42	45
48"	12"	4.00	3.83	CFM	1150	1530	1920	2300	2680	3070	3450	3830
				NC	<20	<20	26	31	36	40	43	47
48"	24"	8.00	7.80	CFM	2340	3120	3900	4680	5460	6240	7020	7800
				NC	<20	22	29	34	39	43	47	50

-Data determined in accordance with ANSI/ASHRAE Standard 70-91.

-NC noise criteria based on room attenuation of 10 dB from sound power levels, re 10⁻¹² watts.

-P_s is static pressure, inches of water.

Additional performance data is available from the KEES website www.kees.com