

The TLC version of certain sizes of models DDL & SDL20 has been specifically designed for direct mounting on to Holyoake Spiroloc rigid round duct. Only the heights listed are available and only the units with front blades in the 'W' direction (DDL and SDL) can be produced.

When selecting from the standard data, allowance must be made for the neck area reduction caused by the angle between the two sides. This can be approximated by using selection data from a grille **50mm less in height** than nominal, as shown in the table.

\*Where mounting duct diameter is greater than double the minimum listed, this correction can be ignored.

**Example:**

Select a TLC-DDL-20 for 0.227m<sup>3</sup>/s, NC 24 & 12.2m throw to Vt 0.25m/s on a 450 dia. duct.

From page 207E, follow the NC20 line to 0.227m<sup>3</sup>/s and select a 450 x 150 conventional DDL-20 (**factors for DDL-20 do modify the listed data**).

Selection size for TLC-DDL-20 is 450 x 200 to give similar performance.

**Note**

Other Product Series, Materials and Configurations may be available, contact your local Holyoake branch.

Due to a policy of continuous development and improvement the right is reserved to supply products which may differ slightly from those illustrated and described in this publication.

Nominal Width, W	Nominal Height, H	Minimum Duct Diameter D	*Selection Height
300	150	300	100
400	200	400	150
500	250	500	200
600	300	600	250

Maximum nominal grille width: 600mm.

Guide Product Weights				
Approximate Weight in Kg.				
Size	SDL20	DDL20	TLC-SDL20	TLC-DDL20
150 x 150	0.28	0.50	0.45	0.75
200 x 200	0.43	0.75	0.65	1.07
250 x 250	0.64	1.07	0.95	1.53
300 x 300	0.95	1.53	1.70	2.70
400 x 400	1.67	2.70	2.75	4.33

# SUPPLY PERFORMANCE DATA

See Notes and Tables on Page 202E.

Size W X H	Vel. m/s	Vel. Press (Pa)	Tot Press (Pa)	m <sup>3</sup> /s	NC 20			NC 30			NC 40			
					1.52	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13
185 x 100 145 x 125 Ac = 0.014m <sup>2</sup>	2	0°	2	8	10	16	23	31	40	51	87	98	147	0.127
	2	22.5°	3	13	17	27	39	53	69	87	98	147	0.127	
	3	45°	4	14	19	30	44	59	77	98	147	0.127		
	4		7	22	29	45	66	89	116	147	0.127			
220 x 100 175 x 125 145 x 150 Ac = 0.017m <sup>2</sup>	0.020	0°	0.042	0.050	0.057	0.071	0.085	0.099	0.113	0.127	0.153	0.186	0.222	
	-	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	0.153	0.186	
	1.2-1.8-3.7	1.5-2.4-4.3	2.1-3.4-4.9	2.4-3.7-5.2	2.7-4.0-5.8	3.4-4.3-6.1	4.0-4.9-6.7	4.3-5.2-7.3	4.6-5.8-7.9	4.9-6.1-8.5	5.2-6.7-9.2	5.8-7.3-10.2	6.4-7.9-11.0	7.0-8.2-12.2
	0.9-1.5-3.1	1.2-1.8-3.4	1.8-2.4-4.0	1.8-3.1-4.9	2.1-3.1-4.3	2.7-3.4-5.9	2.1-4.0-5.5	3.4-4.3-5.8	3.7-4.6-6.4	4.0-4.9-6.7	4.3-5.5-7.6	4.6-5.8-7.9	5.2-6.4-8.8	5.5-6.7-9.8
260 x 100 205 x 125 170 x 150 Ac = 0.020m <sup>2</sup>	0.026	0°	0.052	0.059	0.068	0.104	0.125	0.146	0.165	0.186	0.222	0.255	0.288	
	-	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	0.255	0.288	
	1.2-2.1-4.0	1.8-2.4-4.6	2.4-3.7-5.8	2.7-4.0-5.8	3.1-4.6-6.1	3.4-4.9-6.7	4.0-4.9-6.7	4.3-5.2-7.3	4.6-5.8-7.9	4.9-6.1-8.5	5.2-6.4-8.8	5.5-6.7-9.8	6.1-7.3-10.4	6.4-7.9-11.0
	0.9-1.8-3.1	1.5-1.8-3.7	1.8-2.7-4.3	2.1-3.1-4.3	2.4-3.7-4.9	2.7-4.0-5.5	3.4-4.3-5.8	3.7-4.6-6.4	4.3-5.2-7.0	4.6-5.5-7.9	4.9-6.1-9.2	5.2-6.4-8.8	5.5-6.7-9.8	6.1-7.3-10.4
305 x 100 240 x 125 195 x 150 Ac = 0.024m <sup>2</sup>	0.031	0°	0.061	0.073	0.083	0.123	0.146	0.172	0.196	0.222	0.255	0.288	0.337	
	-	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	0.337	0.370	
	1.2-2.1-4.3	1.8-2.4-4.6	2.4-3.7-5.8	2.7-4.0-5.8	3.1-4.6-6.1	3.4-4.9-6.7	4.0-5.8-8.2	4.3-5.2-7.3	4.6-5.8-7.9	4.9-6.1-8.5	5.2-6.4-8.8	5.5-6.7-9.8	6.1-7.3-10.4	6.4-7.9-11.0
	0.9-1.8-3.4	1.5-1.8-3.7	1.8-2.7-4.3	2.1-3.1-4.3	2.4-3.7-4.9	2.7-4.0-5.5	3.4-4.3-5.8	3.7-4.6-6.4	4.3-5.2-7.0	4.6-5.5-7.9	4.9-6.1-9.2	5.2-6.4-8.8	5.5-6.7-9.8	6.1-7.3-10.4
345 x 100 270 x 125 220 x 150 Ac = 0.024m <sup>2</sup>	0.042	0°	0.071	0.085	0.099	0.142	0.170	0.188	0.227	0.255	0.288	0.337	0.370	
	-	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	0.370	0.403	
	1.5-2.4-4.9	2.1-3.4-5.8	2.7-4.0-6.4	3.1-4.9-7.0	3.7-5.2-7.3	4.3-5.8-7.9	5.2-6.4-8.8	5.8-7.0-9.8	6.1-7.6-10.4	6.7-7.9-11.3	7.0-8.2-12.2	7.3-8.8-12.2	7.6-9.2-12.8	7.9-9.8-13.7
	1.2-1.8-4.0	1.8-3.1-4.6	2.1-3.1-5.2	2.4-4.0-5.5	3.1-4.3-5.8	3.4-4.6-6.4	4.3-5.2-7.0	4.6-5.5-7.9	4.9-6.1-8.5	5.5-6.4-9.2	5.5-6.7-9.8	6.1-7.3-10.4	6.4-7.9-11.0	6.7-8.5-11.6
380 x 100 295 x 125 240 x 150 Ac = 0.030m <sup>2</sup>	0.047	0°	0.080	0.097	0.113	0.161	0.194	0.224	0.257	0.288	0.337	0.370	0.403	
	-	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	0.403	0.436	
	1.5-2.7-5.5	2.4-3.4-6.4	3.1-4.6-7.3	3.7-5.8-7.9	4.3-6.1-8.5	4.9-6.7-9.2	6.1-7.3-10.1	6.7-7.9-11.3	7.0-8.5-12.2	7.6-9.2-12.8	7.9-9.8-13.7	8.2-10.1-13.7	8.5-10.7-14.6	
	1.2-2.1-4.3	1.8-3.1-5.2	2.4-3.7-5.8	3.1-4.6-6.4	3.4-4.9-6.7	4.0-5.5-7.3	4.9-5.8-7.9	5.5-6.4-9.2	5.5-6.7-9.8	6.1-7.3-10.4	6.4-7.9-11.0	6.7-8.5-11.6	7.0-8.5-11.6	
450 x 100 350 x 125 285 x 150 215 x 200 Ac = 0.036m <sup>2</sup>	0.054	0°	0.092	0.111	0.130	0.184	0.222	0.257	0.295	0.337	0.370	0.403	0.436	
	-	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	0.436	0.469	
	1.8-2.7-5.7	2.7-4.0-7.0	3.4-4.9-7.6	4.0-5.8-8.5	4.6-6.7-9.2	5.2-7.0-9.8	6.4-7.9-11.0	7.0-8.2-12.2	7.6-9.2-12.8	8.2-10.1-13.7	8.5-10.7-14.6	8.8-10.7-14.6	9.2-11.6-14.6	
	1.5-2.1-4.6	2.1-3.1-5.5	2.7-4.0-6.1	3.1-4.6-6.7	3.7-5.5-7.3	4.3-5.5-7.9	5.2-6.4-8.8	5.5-6.7-9.8	6.1-7.3-10.4	6.4-7.9-11.0	6.7-8.5-11.6	7.0-8.5-11.6	7.3-8.8-11.6	

Sidewall Supply Grilles

# SUPPLY PERFORMANCE DATA

See Notes and Tables on Page 202E.

Size	Vel. m/s	Vel. Press [Pa]	Tot Press [Pa]	m³/s	NC 20				NC 30				NC 40			
					1.52	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	
WXH 535 x 100 415 x 125 340 x 150 250 x 200 Ac = 0.043m²	2	3	5	6	8	10	17	27	39	53	69	87	51			
	2	4	7	10	13	17	27	39	53	69	87	116	147			
	3	5	8	11	14	19	30	44	66	89	116	147	198			
	4	7	12	16	22	29	45	66	89	116	147	198	261			
535 x 100 460 x 125 380 x 150 Ac = 0.048m²	0.066	0.087	0.109	0.130	0.151	0.175	0.217	0.260	0.305	0.347	0.392	0.441	0.490			
	-	-	-	13	18	22	28	34	39	43	46	47	48			
	2.1-3.1-6.7	2.7-4.3-7.6	3.7-5.2-8.2	4.3-6.7-9.2	4.9-7.0-9.8	5.8-7.6-10.7	7.0-8.2-11.9	7.6-9.5-13.1	8.2-10.1-14.0	8.8-10.7-14.9	9.5-11.6-15.9	9.8-12.2-16.8	10.7-13.1-18.0	11.6-14.9-20.7		
	1.8-2.4-5.5	2.1-3.4-6.1	3.1-4.3-6.7	3.4-5.5-7.3	4.0-5.5-7.9	4.6-6.1-8.5	5.5-6.7-9.5	6.1-7.6-10.4	6.7-7.9-11.3	7.0-8.5-11.9	7.6-9.2-12.8	7.9-9.8-13.4	8.5-10.4-14.3	9.2-11.3-15.6		
535 x 150 440 x 150 325 x 200 260 x 250 Ac = 0.056m²	0.085	0.113	0.142	0.170	0.198	0.227	0.283	0.340	0.397	0.453	0.510	0.569	0.628			
	-	-	10	15	20	24	30	36	41	45	48	49	50			
	2.1-3.7-7.3	3.4-4.9-8.5	4.3-6.1-9.5	4.9-7.3-10.4	5.5-7.6-10.7	6.7-8.8-12.2	7.9-9.8-13.7	8.8-10.7-14.6	9.5-11.6-15.9	10.1-12.2-17.1	10.7-13.1-18.0	11.3-13.7-19.2	12.2-14.9-20.7	13.1-16.2-22.6		
	1.8-3.1-5.8	2.7-4.0-6.7	3.4-4.9-7.6	4.0-5.8-8.2	4.6-6.7-9.2	5.5-7.0-9.8	6.4-7.9-11.0	7.0-8.5-11.6	7.6-9.2-12.8	7.9-9.8-13.7	8.5-10.4-14.3	9.2-11.3-15.6	9.8-11.9-16.5	10.4-12.8-17.7		
535 x 150 390 x 200 Ac = 0.064m²	0.113	0.153	0.191	0.229	0.267	0.307	0.382	0.458	0.534	0.614	0.689	0.765	0.841			
	-	-	11	16	21	25	31	37	42	46	49	50	51			
	2.4-4.3-8.5	4.0-5.8-10.1	4.9-7.0-11.3	5.8-8.5-12.2	7.0-9.5-13.1	7.9-10.1-14.0	9.2-11.3-15.6	10.1-12.5-17.1	11.0-13.4-18.3	11.6-14.0-19.5	12.2-14.9-20.7	12.8-15.9-22.0	13.1-16.2-22.6	14.0-17.4-24.1		
	1.8-3.4-6.7	3.1-4.6-7.9	4.0-5.5-9.2	4.6-6.7-9.8	5.5-7.6-10.4	6.4-7.9-11.3	7.3-9.2-12.5	7.9-10.1-13.7	8.8-10.7-14.6	9.2-11.3-15.6	9.8-11.9-16.5	10.4-12.8-17.7	11.3-14.0-19.2	12.2-14.9-20.7		
650 x 150 475 x 200 380 x 250 315 x 300 Ac = 0.084m²	0.127	0.170	0.212	0.225	0.297	0.340	0.425	0.510	0.595	0.680	0.765	0.841	0.911			
	-	-	11	16	21	25	31	37	42	46	49	50	51			
	2.7-4.6-9.2	4.3-6.1-10.4	5.2-7.6-11.9	6.4-9.2-12.8	7.3-10.1-13.7	8.2-10.7-14.6	9.2-11.9-16.8	10.7-13.1-18.0	11.3-14.0-19.2	12.2-14.9-20.7	12.8-15.9-22.0	13.1-16.2-22.6	14.0-17.4-24.1	15.0-19.2-28.1		
	2.1-3.7-7.3	3.4-4.9-8.2	4.3-6.1-9.5	5.2-7.3-10.4	5.8-7.9-11.0	6.7-8.5-11.6	7.9-9.5-13.4	8.5-10.4-14.3	9.2-11.3-15.3	9.8-11.9-16.5	10.4-12.8-17.7	11.3-14.0-19.2	12.2-14.9-20.7	13.1-16.2-22.6		
765 x 150 440 x 250 365 x 300 Ac = 0.099m²	0.151	0.203	0.253	0.302	0.354	0.404	0.505	0.604	0.708	0.807	0.911	1.010	1.109			
	-	-	11	16	21	25	31	37	42	46	49	50	51			
	3.1-4.9-9.8	4.6-6.7-11.6	5.5-8.5-12.8	6.7-10.1-14.0	7.6-11.0-14.9	8.8-11.6-16.2	10.7-13.1-18.0	11.6-14.0-19.5	12.5-15.3-21.0	13.1-16.2-22.6	14.0-17.4-24.1	15.0-19.2-28.1	16.0-21.0-31.0	17.0-22.0-33.0		
	2.4-4.0-7.9	3.7-5.5-9.2	4.3-6.7-10.4	5.5-7.9-11.3	6.4-8.8-11.9	7.0-9.2-12.8	8.5-10.4-14.3	9.2-11.3-15.6	10.1-12.2-16.8	10.4-12.8-17.7	11.3-14.0-19.2	12.2-14.9-20.7	13.1-16.2-22.6	14.0-17.4-24.1		

# SUPPLY PERFORMANCE DATA

See Notes and Tables on Page 202E.

Size	NC 40										NC 50	
	1.52	2.04	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13		9.14
Vel. m/s	2	3	5	6	8	10	16	23	31	40	51	
Vel. Press (Pa)	2	3	5	6	8	10	16	23	31	40	51	
Tot Press (Pa)	22.5°	3	5	6	8	10	16	23	31	40	51	
	45°	7	12	16	22	29	45	66	89	116	147	
m³/s	0.168	0.222	0.279	0.335	0.390	0.446	0.557	0.670	0.779	0.892	1.000	
NC	-	-	12	17	22	26	32	38	43	47	50	
Throw	3.1-5.2-10.4	4.6-7.0-12.2	5.8-8.5-13.4	7.0-10.7-14.6	8.2-11.6-15.9	9.5-12.2-17.1	11.0-13.7-18.9	12.2-14.6-20.4	13.1-15.9-22.3	13.7-17.1-23.8	14.6-18.0-25.3	
in	2.4-4.3-8.2	3.7-5.5-9.8	4.6-6.7-10.7	5.5-8.5-11.6	6.7-9.2-12.8	7.6-9.8-13.7	8.8-11.0-15.3	9.8-11.6-16.5	10.4-12.8-17.7	11.0-13.7-18.9	11.6-14.3-20.1	
m	1.5-2.4-5.2	2.4-3.4-6.1	3.1-4.3-6.7	3.7-5.2-7.3	4.0-5.8-7.9	4.6-6.1-8.5	5.5-6.7-9.5	6.1-7.3-10.4	6.4-7.9-11.0	7.0-8.5-11.9	7.3-9.2-12.5	
m³/s	0.189	0.253	0.316	0.380	0.444	0.505	0.633	0.760	0.888	1.010	1.140	
NC	-	-	13	18	23	27	33	39	44	48	51	
Throw	3.4-5.5-11.0	4.9-7.3-12.8	6.1-9.2-14.3	7.3-11.3-15.6	8.5-12.2-17.1	9.8-13.1-18.0	11.9-14.3-19.8	12.8-15.9-22.0	13.7-17.1-23.8	14.6-18.3-25.3	15.6-19.2-27.2	
in	2.7-4.3-8.8	4.0-5.8-10.4	4.9-7.3-11.6	5.8-9.2-12.5	6.7-9.8-13.7	7.9-10.4-14.3	9.5-11.6-15.9	10.4-12.8-17.7	11.0-13.7-18.9	11.6-14.6-20.1	12.5-15.3-21.7	
m	1.8-2.7-5.5	2.4-3.7-6.4	3.1-4.6-7.0	3.7-5.5-7.6	4.3-6.1-8.5	4.9-6.4-8.8	5.8-7.0-10.1	6.4-7.9-11.0	7.0-8.5-11.9	7.3-9.2-12.9	7.9-9.8-13.4	
m³/s	0.227	0.302	0.378	0.453	0.529	0.604	0.756	0.907	1.060	1.210	1.360	
NC	-	-	13	18	23	27	33	39	44	48	51	
Throw	4.0-6.1-12.2	5.5-7.9-14.0	6.7-9.8-15.6	8.2-11.9-17.1	9.5-13.1-18.3	10.7-14.0-19.5	12.8-15.6-22.0	14.0-17.1-24.1	14.9-18.6-25.9	16.2-19.8-27.8	17.1-21.0-29.6	
in	3.1-4.9-9.8	4.3-6.4-11.3	5.5-7.9-12.5	6.7-9.5-13.7	7.6-10.4-14.6	8.5-11.3-15.6	10.4-12.5-17.7	11.3-13.7-19.2	11.9-14.9-20.7	12.8-15.9-22.3	13.7-16.8-23.8	
m	1.8-3.1-6.1	2.7-4.0-7.0	3.4-4.9-7.6	4.0-6.1-8.5	4.6-6.7-9.2	5.2-7.0-9.8	6.4-7.9-11.0	7.0-8.5-11.9	7.6-9.2-13.1	7.9-9.8-14.0	8.5-10.7-14.6	
m³/s	0.255	0.340	0.425	0.510	0.595	0.680	0.850	1.020	1.190	1.360	1.530	
NC	-	-	14	19	24	28	34	40	45	49	52	
Throw	4.0-6.4-12.8	5.8-8.5-14.6	7.3-10.7-16.8	8.8-13.1-18.0	9.8-14.0-19.2	11.3-14.9-20.7	13.7-16.8-23.2	14.6-18.3-25.6	15.9-19.8-27.5	17.1-21.0-29.6	18.3-22.3-31.4	
in	3.1-5.2-10.4	4.6-6.7-11.6	5.8-8.5-13.4	7.0-10.4-14.3	7.9-11.3-15.3	9.2-11.9-16.5	11.0-13.4-18.6	11.6-14.6-20.4	12.8-15.9-22.0	13.7-16.8-23.8	14.6-17.7-25.0	
m	2.1-3.4-6.4	2.7-4.3-7.3	3.7-5.2-8.2	4.3-6.4-8.8	4.9-7.0-9.8	5.8-7.3-10.4	6.7-8.2-11.6	7.3-9.2-11.8	7.9-9.8-13.7	8.5-10.7-14.6	9.2-11.3-15.6	
m³/s	0.295	0.392	0.491	0.590	0.689	0.784	0.982	1.180	1.370	1.570	1.770	
NC	-	-	14	19	24	28	34	40	45	49	52	
Throw	4.3-7.0-13.7	6.1-9.2-15.9	7.9-11.6-17.7	9.2-13.4-19.2	10.7-14.9-20.7	12.2-16.2-22.3	14.6-18.0-25.0	15.9-19.5-27.5	17.1-21.0-29.6	18.3-22.9-31.7	19.5-24.1-33.6	
in	3.4-5.5-11.0	4.9-7.3-12.8	6.4-9.2-14.0	7.3-10.7-15.3	8.5-11.9-16.5	9.8-12.8-17.7	11.6-14.3-20.1	12.8-15.6-21.7	13.7-16.8-23.8	14.6-18.3-25.3	15.6-19.2-26.8	
m	2.1-3.4-7.0	3.1-4.6-7.9	4.0-5.8-8.8	4.6-6.7-9.8	5.2-7.6-10.4	6.1-11.0-11.3	7.3-8.8-12.5	7.9-9.8-13.7	8.5-10.7-14.6	9.2-11.3-15.9	9.8-12.2-16.8	
m³/s	0.347	0.463	0.576	0.694	0.812	0.925	1.160	1.390	1.620	1.850	2.080	
NC	-	-	15	20	25	29	35	41	46	50	53	
Throw	4.6-7.6-14.9	6.7-10.1-17.4	8.2-12.2-18.9	9.8-14.6-20.7	11.6-16.5-22.6	13.1-17.4-24.4	15.9-19.5-27.2	17.4-21.4-29.6	18.6-23.2-32.3	19.8-24.7-34.5	21.4-26.5-36.6	
in	3.7-6.1-11.9	5.5-7.9-14.0	6.7-9.8-15.3	7.9-11.6-16.5	9.2-13.1-18.0	10.4-14.0-19.5	12.8-15.6-21.7	14.0-17.1-23.8	14.9-18.6-25.9	15.9-19.8-27.5	17.1-21.4-29.3	
m	2.1-3.7-7.3	3.4-4.9-8.5	4.3-6.1-9.5	4.9-7.3-10.4	5.8-8.2-11.3	6.7-8.5-12.2	7.9-9.8-13.7	8.5-10.7-14.9	9.8-11.6-16.7	10.1-12.8-17.1	10.7-13.1-18.3	
m³/s	0.390	0.524	0.656	0.788	0.921	1.050	1.310	1.580	1.840	2.100	2.360	
NC	-	-	16	21	26	30	36	42	47	51	54	
Throw	4.9-7.9-15.9	7.0-10.4-18.3	8.8-12.8-20.4	10.7-15.3-22.2	12.2-17.4-24.1	13.7-18.6-25.9	16.8-20.7-29.0	20.1-22.9-31.7	19.8-24.7-34.2	21.4-26.5-37.2	22.6-28.4-39.0	
in	4.0-6.4-12.8	5.5-8.2-14.6	7.0-10.4-16.5	8.5-12.2-17.7	9.8-14.0-19.2	11.0-14.9-20.7	13.4-16.5-23.2	14.6-18.3-25.3	15.9-19.8-27.5	17.1-21.4-29.9	18.0-22.6-31.1	
m	2.4-4.0-7.9	3.7-5.2-9.2	4.3-6.4-10.1	5.2-7.6-11.3	6.1-8.5-12.2	7.0-9.2-12.8	8.5-10.4-14.3	9.2-11.3-15.9	10.1-12.2-17.1	10.7-13.1-18.6	11.3-14.0-19.5	

Sidewall Supply Grilles

# SUPPLY PERFORMANCE DATA

See Notes and Tables on Page 202E.

Vel. m/s	Size W X H	Vel. Press (Pa)	Tot Press (Pa)	m <sup>3</sup> /s	NC 20	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14
	750 x 400	1.52	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14		
	665 x 450	2	3	5	6	8	10	16	23	31	40	51		
	595 x 500	2	4	7	10	13	17	27	39	53	69	87		
	540 x 550	3	5	8	11	14	19	30	44	59	77	98		
	Ac = 0.28m <sup>2</sup>	4	7	12	16	22	29	45	66	89	116	147		
	880 x 400	0.441	0.585	0.747	0.983	1.030	1.180	1.470	1.760	2.050	2.350	2.640		
	665 x 450	-	-	16	21	26	30	36	42	47	51	54		
	595 x 500	0°	7.3-11.0-19.2	10.4-13.7-21.7	12.5-16.2-23.8	14.3-18.3-25.6	14.6-19.5-27.5	17.7-22.0-30.5	19.5-24.1-33.6	21.0-26.2-36.0	22.6-28.1-39.0	24.1-29.6-41.2		
	540 x 550	22.5°	3.1-8.8-15.3	8.2-11.0-17.4	10.1-12.8-18.9	11.6-14.6-20.4	11.6-15.6-22.0	14.0-17.7-24.4	15.6-19.2-26.8	16.8-21.0-28.7	18.0-22.6-31.1	19.2-23.8-32.9		
	Ac = 0.28m <sup>2</sup>	45°	3.7-5.5-9.5	5.2-6.7-10.7	6.1-7.9-11.9	7.0-9.2-12.8	7.3-9.8-12.7	8.8-11.0-15.3	9.8-12.2-16.8	10.7-13.1-18.0	11.3-14.0-19.5	12.2-14.9-20.4		
	880 x 400	0.510	0.680	0.850	1.020	1.190	1.360	1.700	2.040	2.380	2.730	3.070		
	780 x 450	-	10	17	22	27	31	37	43	48	52	55		
	700 x 500	0°	7.9-11.6-20.7	9.8-14.3-23.2	11.6-17.1-25.6	13.4-19.8-27.5	15.6-21.0-29.6	19.2-23.8-32.9	21.0-26.2-36.0	22.9-28.4-39.0	24.4-30.2-41.8	26.2-32.0-44.5		
	585 x 600	22.5°	6.4-9.2-16.5	7.9-11.6-18.6	9.2-13.7-20.4	10.7-15.9-22.0	12.5-16.8-23.8	15.3-18.9-26.2	16.8-21.0-28.7	18.3-22.6-31.1	18.3-24.1-33.6	19.2-23.8-32.9		
	Ac = 0.33m <sup>2</sup>	45°	2.7-4.3-8.8	4.0-5.8-10.4	4.9-7.0-11.6	5.8-8.5-12.8	6.7-9.8-13.7	7.6-10.7-14.6	9.5-11.9-16.5	10.7-13.1-18.0	11.6-14.3-19.8	12.2-15.3-21.0		
	920 x 450	0.610	0.812	1.010	1.210	1.420	1.620	2.030	2.430	2.890	3.240	3.640		
	825 x 500	-	11	18	23	28	32	38	44	49	53	56		
	750 x 550	0°	8.5-12.5-22.6	10.7-15.3-25.3	12.8-18.3-27.8	14.9-21.7-29.9	17.1-23.2-32.3	21.0-25.9-36.0	23.2-28.4-39.0	25.0-31.1-42.7	26.8-32.9-45.4	28.1-35.1-48.2		
	585 x 600	22.5°	6.7-10.1-18.0	8.5-12.2-20.1	10.4-14.6-22.3	11.9-17.4-23.8	13.7-18.6-25.9	16.8-20.7-28.7	18.6-22.6-31.7	20.1-25.0-34.2	21.4-26.2-36.3	22.6-28.1-38.4		
	Ac = 0.39m <sup>2</sup>	45°	3.1-4.6-9.8	4.3-6.1-11.3	5.2-7.6-12.8	6.4-9.2-14.0	7.3-10.7-14.9	8.5-11.6-16.2	10.4-13.1-18.0	11.6-14.3-19.8	12.5-15.6-21.4	13.4-16.5-22.9		
	885 x 500	0.660	0.878	1.100	1.320	1.540	1.760	2.200	2.630	3.070	3.510	3.950		
	740 x 600	-	11	18	23	28	32	38	44	49	53	56		
	660 x 650	0°	8.8-13.1-23.8	11.0-16.5-26.5	13.4-19.8-29.0	15.6-22.6-31.4	17.7-24.1-33.6	22.0-27.2-37.5	24.1-29.6-41.2	26.2-32.0-44.5	27.8-34.5-47.6	29.3-36.6-50.0		
	585 x 600	22.5°	7.0-10.4-18.9	8.8-13.1-21.4	10.7-15.9-23.2	12.5-18.0-25.0	14.0-19.2-26.8	17.7-21.7-29.9	19.2-23.8-32.9	21.0-25.9-35.7	22.3-27.5-38.1	23.5-29.3-40.0		
	Ac = 0.42 m <sup>2</sup>	45°	4.6-6.7-11.9	5.5-8.2-13.1	6.7-9.8-14.6	7.6-11.3-15.9	8.8-12.2-16.8	11.0-13.4-18.6	11.9-14.9-20.4	13.1-15.9-22.3	14.0-17.1-23.8	14.6-18.3-25.0		
	1195 x 450	0.788	1.050	1.320	1.580	1.850	2.110	2.630	3.160	3.690	4.220	4.720		
	895 x 600	-	12	19	24	29	33	39	45	50	54	57		
	700 x 500	0°	9.5-14.3-25.9	12.2-18.0-29.0	14.3-22.0-31.7	16.8-24.7-34.5	19.2-26.5-37.2	24.1-29.6-39.6	26.5-32.6-45.1	28.4-35.4-48.8	30.5-38.1-52.2	32.3-40.3-54.9		
	585 x 600	22.5°	7.6-11.6-20.7	9.8-14.4-23.3	11.6-17.7-25.3	13.4-19.8-27.5	15.3-21.4-29.9	19.2-23.8-32.9	21.4-26.2-36.0	22.6-28.4-39.7	24.4-30.5-41.8	25.9-32.0-42.7		
	Ac = 0.51m <sup>2</sup>	45°	3.4-5.5-11.3	4.9-7.0-13.1	6.1-9.2-14.6	7.0-11.0-15.9	8.5-12.5-17.4	9.5-13.4-18.6	11.9-14.9-20.4	13.1-16.2-22.6	14.3-17.7-24.4	15.3-18.9-26.2		
	1175 x 500	0.888	1.180	1.470	1.770	2.070	2.360	2.950	3.540	4.130	4.720	5.290		
	780 x 750	-	13	20	25	30	34	40	46	51	55	58		
	700 x 500	0°	10.1-14.9-27.5	12.8-18.9-30.5	15.3-22.9-31.4	17.7-26.2-36.3	20.4-28.4-39.0	25.6-31.7-43.6	28.1-34.5-47.6	29.9-37.5-51.5	32.3-40.3-54.9	34.2-42.7-58.6		
	585 x 600	22.5°	7.9-11.9-22.0	10.4-15.3-24.4	12.2-18.3-25.0	14.0-21.0-29.0	16.5-22.6-31.1	20.4-25.3-34.8	22.6-27.5-38.1	23.8-29.9-41.2	25.9-32.0-42.7	27.5-34.2-46.7		
	Ac = 0.56m <sup>2</sup>	45°	3.7-5.8-11.9	5.2-7.6-13.7	6.4-9.5-15.3	8.8-13.1-18.3	10.4-14.0-19.5	12.8-15.9-22.0	14.0-17.4-23.8	14.9-18.6-25.9	16.2-20.1-29.3	17.1-21.4-29.3		

# SD, DD, TLC & MDD

## Grille Description Code Examples and Suggested Specifications

SD	L or S	20 or 32	RC	25	OBD-1	– W x H (DUCT)	FINISH
DD	L or S	20 or 32	RC	50			
TLC-SD	L	20	–	CMF			
TLC-DD	L	20	–				
MDD	–	20 or 32	RC (Screw)				

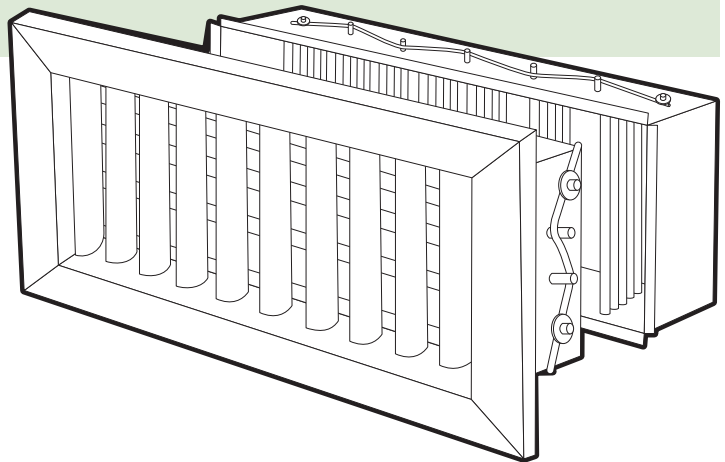
  

Single Deflection. Double Deflection. Curved Frame, Single Deflection. Curved Frame, Double Deflection. Modular Double Deflection.	Direction of Front Blades, (L - Parallel to long dimension, S - Parallel to short dimension).	Blade Spacing (mm).	Removable Core Frame*.	Optional Frame Styles.	Opposed Blade Damper.	Width x Height Dimensions.	Holyoake White. Mill Aluminium. Powder Coat.
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All Holyoake sidewall supply registers shall be of extruded aluminium construction, with true airfoil shaped single, or double deflection blades. Optional opposed blade volume control damper, which can be screw driver operated through the face of the grille. All shall be as manufactured by Holyoake.

\* = See page 228E (For MDD, see page 210E).

Guide Product Weights	
Description	Approximate Weight in Kg.
MDD	SUBJECT TO CORE ELEMENTS
Contact your local Holyoake Branch	



### Note

Where appropriate, seismic restraints may be required, but are not supplied.