

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
175 x 100 150 x 125 Ac = 0.014m <sup>2</sup>	2	0°	2	8	10	17	27	39	53	69	87	51	
	3	22.5°	3	13	14	19	30	44	59	77	98		
	4	45°	4	22	29	45	66	89	116	147	147		
	0.020	0.028	0.035	0.042	0.050	0.057	0.071	0.085	0.099	0.113	0.127	0.153	
200 x 100 175 x 125 150 x 150 Ac = 0.017m <sup>2</sup>	-	0°	-	13	17	23	29	34	34	38	41	43	
	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		
	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	4.3-5.5-7.3		
	0.6-0.9-1.8	0.9-1.2-2.1	0.9-1.5-2.4	1.2-1.8-2.7	1.5-2.1-3.1	1.5-2.1-3.1	1.8-2.4-3.4	2.1-2.7-3.7	2.4-3.1-4.0	2.4-2.7-4.0	2.4-3.1-4.3		
250 x 100 200 x 125 175 x 150 Ac = 0.020m <sup>2</sup>	0.026	0.033	0.042	0.052	0.059	0.068	0.085	0.101	0.118	0.137	0.153	0.186	
	-	0°	-	10	15	19	25	31	36	40	43	44	
	1.2-2.1-4.0	1.8-2.4-4.6	2.1-3.4-5.2	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	5.2-6.4-8.8	5.8-7.3-10.2		
	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	4.0-4.6-6.7	4.3-5.2-6.7	4.6-5.5-7.9	4.9-6.1-9.2	5.2-6.4-8.8		
300 x 100 250 x 125 200 x 150 Ac = 0.024m <sup>2</sup>	0.6-0.9-2.1	0.9-1.2-2.4	1.2-1.5-2.7	1.2-2.1-3.1	1.5-2.1-3.1	1.8-2.4-3.4	1.8-2.7-3.7	2.4-3.1-4.0	2.7-3.4-4.6	3.1-3.7-5.2	3.4-4.0-5.5		
	0.031	0.042	0.052	0.061	0.073	0.083	0.104	0.125	0.146	0.165	0.186	0.222	
	-	0°	-	10	16	20	26	32	37	41	44	44	
	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		
350 x 100 Ac = 0.027m <sup>2</sup>	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		
	0.9-1.2-2.4	1.2-1.5-2.7	1.2-2.1-3.1	1.5-2.4-3.4	1.8-2.7-3.7	2.1-2.7-4.0	2.4-3.4-4.6	2.7-3.7-4.9	3.1-4.0-5.2	3.4-4.0-5.5	3.7-4.3-6.1		
	0.042	0.057	0.071	0.085	0.099	0.113	0.142	0.170	0.188	0.227	0.255	0.288	
	-	0°	-	11	16	20	26	32	37	41	44	44	
400 x 100 300 x 125 250 x 150 Ac = 0.030m <sup>2</sup>	1.5-2.7-5.2	2.4-3.4-6.1	2.7-4.0-6.4	3.4-5.2-7.3	4.0-5.8-7.9	4.6-6.1-8.5	5.5-7.0-9.5	6.1-7.6-10.4	6.7-8.2-11.3	7.3-8.8-12.2	7.6-9.2-12.8		
	1.2-2.1-4.3	1.8-2.7-4.9	2.1-3.4-5.5	2.7-4.3-5.8	3.1-4.6-6.4	3.7-4.9-6.7	4.3-5.5-7.6	4.9-6.1-8.2	5.5-6.7-9.2	6.8-7.0-9.8	6.1-7.3-10.4		
	0.9-1.2-2.4	1.2-1.8-3.1	1.5-2.1-3.4	1.8-2.4-3.7	2.1-2.7-4.0	2.4-3.1-4.3	2.7-3.4-4.9	3.1-3.7-5.2	3.4-4.0-5.8	3.7-4.3-6.1	3.7-4.6-6.4		
	0.047	0.064	0.080	0.097	0.113	0.127	0.161	0.194	0.224	0.257	0.288	0.337	
450 x 100 350 x 125 300 x 150 200 x 200 Ac = 0.036m <sup>2</sup>	-	0°	-	12	17	21	27	33	38	42	45	46	
	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		
	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		
	0.9-1.2-2.7	1.2-1.8-3.4	1.5-2.4-3.7	1.8-2.7-4.0	2.1-3.1-4.3	2.4-3.4-4.6	3.1-3.7-5.2	3.4-4.0-5.5	3.7-4.3-6.1	3.7-4.6-6.4	4.0-4.9-6.7		
300 x 150 200 x 200 Ac = 0.036m <sup>2</sup>	0.054	0.073	0.092	0.111	0.130	0.146	0.184	0.222	0.257	0.295	0.337	0.377	
	-	0°	-	13	18	22	28	34	39	43	46	46	
	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		
	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	4.3-5.5-7.3	5.2-6.4-8.8	5.5-6.7-9.8	6.1-7.3-10.4	6.7-7.9-11.0	6.7-8.5-11.6		
200 x 200 Ac = 0.036m <sup>2</sup>	0.9-1.5-3.1	1.2-1.8-3.4	1.5-2.4-4.0	2.1-3.1-4.3	2.4-3.4-4.6	2.7-3.7-4.9	3.4-4.0-5.5	3.7-4.3-6.1	4.0-4.9-6.4	4.0-4.9-7.0	4.3-5.2-7.3		
	0.038	0.050	0.061	0.073	0.085	0.099	0.123	0.146	0.172	0.196	0.222	0.255	
	-	0°	-	11	16	20	26	32	37	41	44	44	
	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		
300 x 150 200 x 200 Ac = 0.024m <sup>2</sup>	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		
	0.9-1.2-2.4	1.2-1.5-2.7	1.2-2.1-3.1	1.5-2.4-3.4	1.8-2.7-3.7	2.1-2.7-4.0	2.4-3.4-4.6	2.7-3.7-4.9	3.1-4.0-5.2	3.4-4.0-5.5	3.7-4.3-6.1		
	0.042	0.057	0.071	0.085	0.099	0.113	0.142	0.170	0.188	0.227	0.255	0.288	
	-	0°	-	11	16	20	26	32	37	41	44	44	
400 x 100 300 x 125 250 x 150 Ac = 0.030m <sup>2</sup>	1.5-2.7-5.2	2.4-3.4-6.1	2.7-4.0-6.4	3.4-5.2-7.3	4.0-5.8-7.9	4.6-6.1-8.5	5.5-7.0-9.5	6.1-7.6-10.4	6.7-8.2-11.3	7.3-8.8-12.2	7.6-9.2-12.8		
	1.2-2.1-4.3	1.8-2.7-4.9	2.1-3.4-5.5	2.7-4.3-5.8	3.1-4.6-6.4	3.7-4.9-6.7	4.3-5.5-7.6	4.9-6.1-8.2	5.5-6.7-9.2	6.8-7.0-9.8	6.1-7.3-10.4		
	0.9-1.2-2.4	1.2-1.8-3.1	1.5-2.1-3.4	1.8-2.4-3.7	2.1-2.7-4.0	2.4-3.1-4.3	2.7-3.4-4.9	3.1-3.7-5.2	3.4-4.0-5.8	3.7-4.3-6.1	3.7-4.6-6.4		
	0.047	0.064	0.080	0.097	0.113	0.127	0.161	0.194	0.224	0.257	0.288	0.337	
450 x 100 350 x 125 300 x 150 200 x 200 Ac = 0.036m <sup>2</sup>	-	0°	-	12	17	21	27	33	38	42	45	46	
	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		
	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		
	0.9-1.2-2.7	1.2-1.8-3.4	1.5-2.4-3.7	1.8-2.7-4.0	2.1-3.1-4.3	2.4-3.4-4.6	3.1-3.7-5.2	3.4-4.0-5.5	3.7-4.3-6.1	3.7-4.6-6.4	4.0-4.9-6.7		
300 x 150 200 x 200 Ac = 0.036m <sup>2</sup>	0.054	0.073	0.092	0.111	0.130	0.146	0.184	0.222	0.257	0.295	0.337	0.377	
	-	0°	-	13	18	22	28	34	39	43	46	46	
	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		
	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	4.3-5.5-7.3	5.2-6.4-8.8	5.5-6.7-9.8	6.1-7.3-10.4	6.7-7.9-11.0	6.7-8.5-11.6		
200 x 200 Ac = 0.036m <sup>2</sup>	0.9-1.5-3.1	1.2-1.8-3.4	1.5-2.4-4.0	2.1-3.1-4.3	2.4-3.4-4.6	2.7-3.7-4.9	3.4-4.0-5.5	3.7-4.3-6.1	4.0-4.9-7.0	4.3-5.2-7.3	4.3-5.5-7.3		
	0.038	0.050	0.061	0.073	0.085	0.099	0.123	0.146	0.172	0.196	0.222	0.255	
	-	0°	-	11	16	20	26	32	37	41	44	44	
	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		

Sidewall Supply Grilles

# SUPPLY PERFORMANCE DATA

See Notes and Tables on Page 202E.

Size WXH	Vel. m/s	Vel. Press [Pa]	Tot Press [Pa]	1.52	2.03	2.54	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	
															NC 20
500 x 100 400 x 125	0°	22.5°	45°	2	3	5	6	8	10	16	23	31	40	51	
				2	4	7	10	13	17	27	39	53	69	87	
				3	5	8	11	14	19	30	44	59	77	98	
				4	7	12	16	22	29	45	66	89	116	147	
350 x 150 250 x 200 Ac = 0.043m <sup>2</sup>	0°	22.5°	45°	0.066	0.087	0.109	0.130	0.151	0.175	0.217	0.260	0.305	0.347	0.392	
				-	-	-	13	18	22	28	34	43	46		
				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	8.2-10.1-14.0	8.8-10.7-14.9	9.5-11.6-15.9		
				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	7.0-8.5-11.9	7.6-9.2-12.8		
600 x 100 450 x 125 400 x 150	0°	22.5°	45°	0.073	0.099	0.123	0.146	0.172	0.196	0.246	0.295	0.345	0.382	0.441	
				-	-	-	14	19	23	29	35	44	47		
				2.1-3.4-7.0	3.1-4.6-7.9	4.0-5.9-8.8	4.6-6.7-9.8	5.5-7.6-10.7	6.1-7.9-11.3	7.3-9.2-12.5	8.8-10.7-14.9	9.5-11.6-15.9	10.7-13.1-18.0		
				1.8-2.7-5.5	2.4-3.7-6.4	3.1-4.6-7.0	3.7-5.5-7.9	4.3-6.1-8.5	4.9-6.4-9.2	5.8-7.3-10.1	6.7-7.9-11.0	7.6-9.2-12.8	8.5-10.4-14.3		
300 x 200 250 x 250 Ac = 0.056m <sup>2</sup>	0°	22.5°	45°	0.085	0.113	0.142	0.170	0.198	0.227	0.283	0.340	0.397	0.453	0.510	
				-	-	10	15	20	24	30	36	41	45	48	
				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	6.7-8.8-12.2	7.9-9.8-13.7	8.8-10.7-14.6	9.5-11.6-15.9	10.7-13.1-18.0		
				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	8.5-10.4-14.3		
600 x 125 500 x 150 350 x 200 300 x 250 Ac = 0.064m <sup>2</sup>	0°	22.5°	45°	0.097	0.130	0.163	0.196	0.229	0.260	0.326	0.392	0.456	0.519	0.585	
				-	-	10	15	20	24	30	36	41	45	48	
				2.4-4.0-7.9	3.7-5.2-9.2	4.6-6.7-10.4	5.5-7.9-11.3	6.4-8.8-12.2	7.3-9.5-13.1	8.5-10.4-14.3	9.2-11.6-15.9	10.1-12.2-17.1	10.7-13.1-18.3		
				1.8-3.1-6.4	3.1-4.3-7.3	3.7-5.5-8.2	4.3-6.4-9.2	5.2-7.0-9.8	5.8-7.6-10.4	6.7-8.2-11.6	7.3-9.2-12.8	7.9-9.8-13.7	8.5-10.4-14.6		
550 x 150 400 x 200 Ac = 0.069m <sup>2</sup>	0°	22.5°	45°	0.113	0.153	0.191	0.229	0.267	0.307	0.382	0.458	0.534	0.614	0.689	
				-	-	11	16	21	25	31	37	42	46	49	
				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		
				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		
650 x 150 450 x 200 400 x 250 300 x 300 Ac = 0.084m <sup>2</sup>	0°	22.5°	45°	0.127	0.170	0.212	0.225	0.297	0.340	0.425	0.510	0.595	0.680	0.765	
				-	-	11	16	21	25	31	37	42	46	49	
				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		
				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		
750 x 150 450 x 250 350 x 300 Ac = 0.099m <sup>2</sup>	0°	22.5°	45°	0.151	0.203	0.253	0.302	0.354	0.404	0.505	0.604	0.708	0.807	0.911	
				-	-	11	16	21	25	31	37	42	46	49	
				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	11.6-14.0-19.1	12.5-15.3-21.0	13.1-16.2-22.6		
				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	10.4-12.8-18.0		
Ac = 0.099m <sup>2</sup>	0°	22.5°	45°	1.5-2.4-4.9	2.1-3.4-5.8	2.7-4.3-6.4	3.4-5.2-7.0	4.0-5.5-7.6	4.3-5.8-7.9	5.2-6.4-8.8	5.8-7.0-9.8	6.1-7.6-10.7	6.7-8.2-11.3	7.0-8.5-12.2	
				2.7-4.3-6.4	3.4-5.2-7.0	4.0-5.5-7.6	4.3-5.8-7.9	5.2-6.4-8.8	5.8-7.0-9.8	6.1-7.6-10.4	6.7-8.2-11.3	7.0-8.5-12.2	8.5-10.4-14.3	9.2-11.3-15.6	10.1-12.2-16.8
				2.7-4.3-6.4	3.4-5.2-7.0	4.0-5.5-7.6	4.3-5.8-7.9	5.2-6.4-8.8	5.8-7.0-9.8	6.1-7.6-10.4	6.7-8.2-11.3	7.0-8.5-12.2	8.5-10.4-14.3	9.2-11.3-15.6	10.1-12.2-16.8
				2.7-4.3-6.4	3.4-5.2-7.0	4.0-5.5-7.6	4.3-5.8-7.9	5.2-6.4-8.8	5.8-7.0-9.8	6.1-7.6-10.4	6.7-8.2-11.3	7.0-8.5-12.2	8.5-10.4-14.3	9.2-11.3-15.6	10.1-12.2-16.8

# 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	
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°	22.5°	45°	45°	0°	0°	22.5°	22.5°	45°	45°	0°
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	-	-	14	19	24	28	34	40	45	49	52
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	-	-	15	20	25	29	35	41	46	50	53
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	-	-	16	21	26	30	36	42	47	51	54
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	14.0-17.1-23.8	14.9-18.6-25.9	15.9-19.8-27.5
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	8.5-10.7-14.9	9.8-11.6-16.7	10.1-12.8-17.1
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	-	-	17	22	27	31	37	43	48	52	56
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	-	-	18	23	28	33	39	45	50	55	59
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	21.4-26.5-37.2	22.6-28.4-39.0	24.1-30.2-41.1
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.

Size W X H	Vel. m/s	1.52	2.03	2.54	NC 20					NC 30					NC 40					NC 50								
					3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14	3.05	3.56	4.06	5.08	6.10	7.11	8.13	9.14
750 x 400	m <sup>3</sup> /s	0.441	0.585	0.747	0.883	1.030	1.180	1.470	1.760	2.050	2.350	2.640																
650 x 450	NC	-	-	16	21	26	30	36	42	47	51	54																
600 x 500	Throw	5.2-8.2-16.8	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																
550 x 550	In	1.3-6.7-13.4	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>	m	2.4-4.3-8.5	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																
900 x 400	m <sup>3</sup> /s	0.510	0.680	0.850	1.020	1.190	1.360	1.700	2.040	2.380	2.730	3.070																
750 x 450	NC	-	10	17	22	27	31	37	43	48	52	55																
700 x 500	Throw	5.5-8.8-18.0	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																
600 x 600	In	4.3-7.0-14.3	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>	m	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	12.2-14.9-20.4																
900 x 450	m <sup>3</sup> /s	0.610	0.812	1.010	1.210	1.420	1.620	2.030	2.430	2.890	3.240	3.640																
800 x 500	NC	-	11	18	23	28	32	38	44	49	53	56																
700 x 550	Throw	5.8-9.5-19.5	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																
600 x 650	In	4.6-7.6-15.6	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>	m	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	14.0-17.4-24.1																
900 x 500	m <sup>3</sup> /s	0.660	0.878	1.100	1.320	1.540	1.760	2.200	2.630	3.070	3.510	3.950																
750 x 600	NC	-	11	18	23	28	32	38	44	49	53	56																
700 x 650	Throw	6.1-10.1-20.4	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																
600 x 750	In	4.9-7.9-16.5	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>	m	3.1-4.9-10.1	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																
1200 x 450	m <sup>3</sup> /s	0.788	1.050	1.320	1.580	1.850	2.110	2.630	3.160	3.690	4.220	4.720																
900 x 600	NC	-	12	19	24	29	33	39	45	50	54	57																
750 x 750	Throw	6.7-11.0-22.3	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																
600 x 850	In	5.5-8.8-17.7	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>	m	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	17.2-20.1-27.5																
1200 x 500	m <sup>3</sup> /s	0.888	1.180	1.470	1.770	2.070	2.360	2.950	3.540	4.130	4.720	5.290																
750 x 750	NC	-	13	20	25	30	34	40	46	51	55	58																
600 x 950	Throw	7.0-11.3-23.8	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																
550 x 1050	In	5.5-9.2-18.9	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>	m	3.7-5.8-11.9	5.2-7.6-13.7	6.4-9.5-15.3	7.6-11.3-15.6	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																

Sidewall Supply Grilles

# 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)				

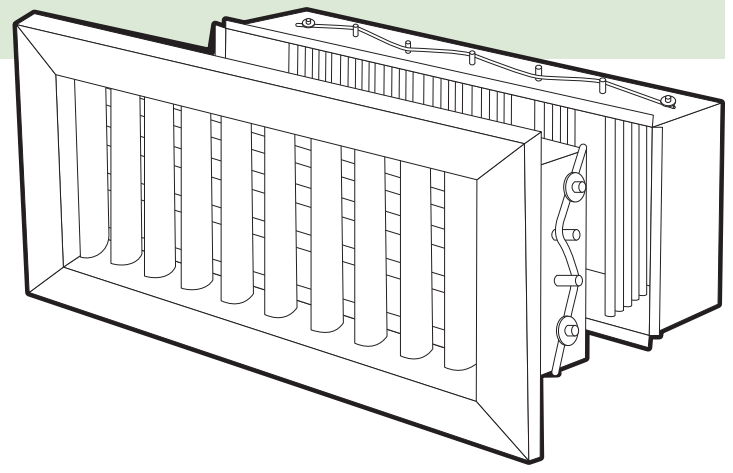
  

Single Deflection. Double Deflection. Curved Frame, Single Deflection. Curved Frame, Double Deflection. Modular Double Deflection.	Direction of Front Blades, (L - Parallel to long dimension, S - Parallel to short dimension).	Blade Spacing (mm).	Removable Core Frame*.	Optional Frame Styles.	Opposed Blade 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.