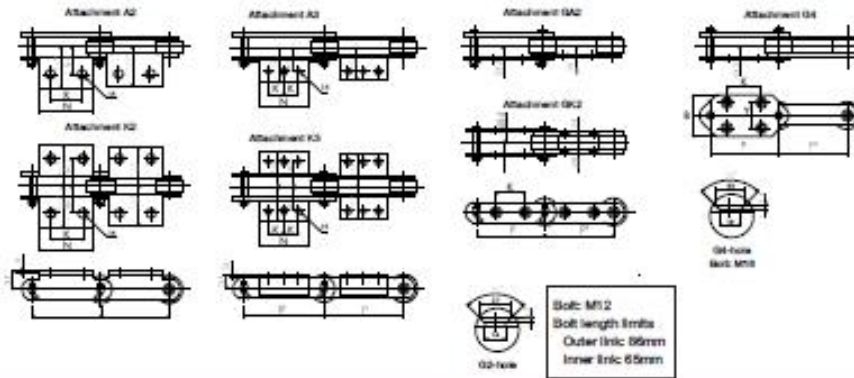
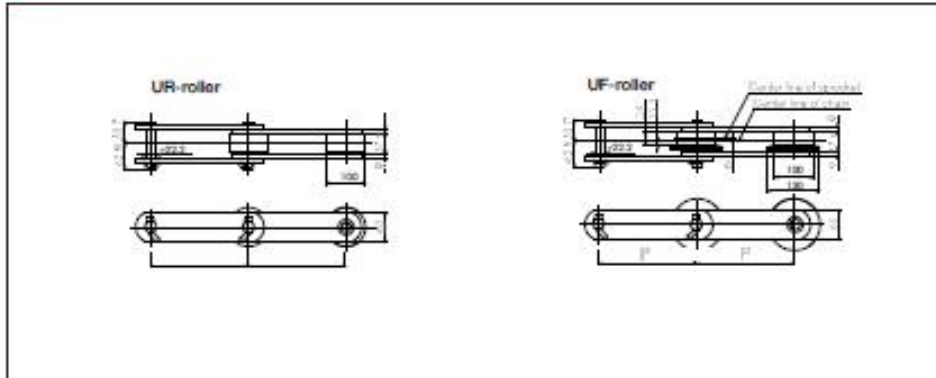


# LAMPIRAN

**D.I.D**

## Dimensional Drawings: DK 32200, DK 32250, DK 32300 and DK 32450 (for Metric series)



Chain No.		Avg. tensile strength kN (kg)		Pitch P	Standard attachments											
Chain size	Roller type	Normal A, J	Heavy duty K, S		A1 = K1		A2 = K2		A3 = K3		SA2 = SK2		GA2/GK2		G4	
					N	N	K	N	K	N	K	K	K	Y	B	
DK 32200	UR,UF			200		120	80					70(40)	100	80	125	
DK 32250	UR,UF	313 (32,000)	500 (51,000)	250		170	125					110(90)	140	100	150	
DK 32300	UR,UF			300		220	180					140	170	100	150	
DK 32450	UR,UF			450		330	280	330	140			220				

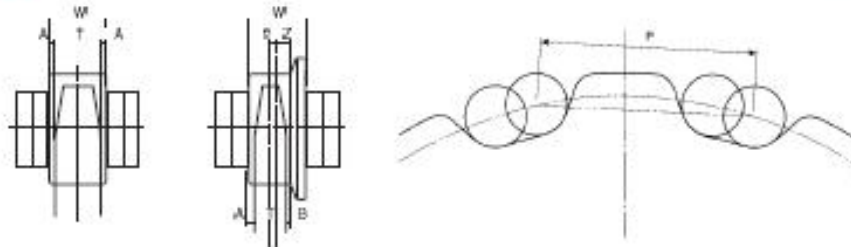
Chain No.		Combination of standard attachments and rollers					Approx. weight kg/m		Attachment weight (kg)					
Chain size	Roller type	A1	A2	A3	SA2	GA2	G4	UR roller	UF roller	A2	A3	K2	K3	G4
		K1	K2	K3	SK2	GK2								
DK 32200	UR,UF		UR,UF			UR,UF	UR,UF	26.2	30.2	0.72		1.44		0.91
DK 32250	UR,UF		UR,UF			UR,UF	UR,UF	24.6	26.2	1.01		2.02		1.48
DK 32300	UR,UF		UR,UF			UR,UF	UR,UF	22.0	23.4	1.31		2.62		1.78
DK 32450	UR,UF		UR,UF	UR,UF		UR,UF		17.8	18.7		1.97		3.97	

- Note: 1. The dimensions of the normal and heavy duty chains are the same, but heavy duty chains are made of high-strength and structural steel, and are suitable when higher safety rate, strength or wear resistance is required.  
 2. K values in ( ) for Attachment GA2 and GK2 are for Roller UF.  
 3. With Attachment GA2 and GK2, check the bolt length limits shown above.  
 4. Attachment A3 and K3 are angle welding attachments.

DK Conveyor Chains

Fixing-proof Roller

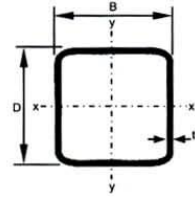
### Tooth Width of Conveyor Chain Sprockets (Standard)



Chain No.	Pitch	W	R-roller		S-roller		M-roller		e		Z		F-roller	
			T	A	T	A	T	A			T	A	B	
DK03075	75	15.9	12	1.95	12	1.95	-	-	2	3.3	9	1.45	0.8	
DK03100	100													
DK03125	125													
DK03150	150													
DK07075	75	22	16	3	16	3	-	-	2.5	4.5	12	2.5	1	
DK07100	100													
DK07125	125													
DK07150	150													
DK09100	100	25.6	19	3.3	19	3.3	19	3.3	3	5	12	3.8	2	
DK09125	125													
DK09150	150													
DK11100	100		30.6	22	4.3	22	4.3	22	4.3	3.5	6.5	16	3.8	2
DK11125	125													
DK11150	150													
DK11200	200													
DK13150	150	36.5	28	4.25	28	4.25	28	4.25	4	8	19	4.75	2.5	
DK13200	200													
DK19200	200	36.5	28	4.25	28	4.25	28	4.25	4	8	19	4.75	2.5	
DK19250	250													
DK19300	300													
DK33200	200	51.8	40	5.9	40	5.9	40	5.9	5	12.5	28	6.9	3.5	
DK33250	250													
DK33300	300													
DK33200	200	57.6	45	6.3	45	6.3	45	6.3	6	13.5	32	6.8	3.5	
DK33250	250													
DK33300	300													
DK33450	450													
DK30250	250	67.4	55	6.2	55	6.2	55	6.2	7	15	36	8.7	4	
DK30300	300													
DK30450	450													
DK30600	600													
DK63300	300	75	65	5	65	5	65	5	8	16.5	43	8	3	
DK63450	450													
DK05101	101.6	22.2	16	3.1	16	3.1	-	-	-	-	-	-	-	-
DK08066	66.27	27.6	-	-	22	2.8	22	2.8	-	-	-	-	-	-
DK08101	101.6	27.6	22	2.8	22	2.8	22	2.8	3	6.5	-	-	-	-
DK09101	101.6	27.6	22	2.8	22	2.8	22	2.8	-	-	-	-	-	-
DK11132	132.4	30.8	22	4.4	22	4.4	22	4.4	3	7.5	16	4.4	2.5	
DK13101	101.6	31	25	3	25	3	25	3	-	-	-	-	-	-
DK19132	132.4	36.5	28	4.25	28	4.25	28	4.25	4	8	19	4.75	2.5	
DK35132	132.4	37.5	28	4.75	28	4.75	28	4.75	4	8.5	19	5.25	3	

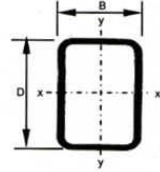
( ) Outer dimension : Welded sheet steel type ( ) Inner dimension : Cast steel type

## SQUARE HOLLOW SECTIONS



(Metric units)									
Section Size	Wall Thickness	Unit Weight	Section Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
D x B	t	M	A	$I_x$	$I_y$	$i_x$	$i_y$	$Z_x$	$Z_y$
mm	mm	kg/m	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>4</sup>	cm	cm	cm <sup>3</sup>	cm <sup>3</sup>
<b>100 x 100</b>	2.3	6.95	8.85	140.00	140.00	3.97	3.97	27.90	27.90
	3.0	8.95	11.40	176.90	176.90	3.93	3.93	35.38	35.38
	3.2	9.52	12.13	187.00	187.00	3.93	3.93	37.50	37.50
	4.5	13.10	16.67	249.00	249.00	3.87	3.87	49.90	49.90
	6.0	17.00	21.63	311.00	311.00	3.79	3.79	62.30	62.30
	9.0	24.10	30.67	408.00	408.00	3.65	3.65	81.60	81.60
<b>125 x 125</b>	2.3	8.75	11.15	278.02	278.02	4.99	4.99	44.48	44.48
	3.0	11.31	14.40	354.32	354.32	4.95	4.95	56.69	56.69
	3.2	12.00	15.33	376	376	4.95	4.95	60.10	60.10
	4.5	16.61	21.17	506	506	4.89	4.89	80.90	80.90
	6.0	21.70	27.63	641	641	4.82	4.82	103	103
	9.0	31.10	39.67	865	865	4.67	4.67	108	108
<b>150 x 150</b>	4.5	20.10	25.67	896	896	5.91	5.91	120	120
	6.0	26.40	33.63	1,150	1,150	5.84	5.84	153	153
	9.0	38.20	48.67	1,580	1,580	5.69	5.69	210	210
<b>175 x 175</b>	6.0	31.10	39.63	1,860	1,860	6.86	6.86	213	213
	9.0	45.30	57.67	2,600	2,600	6.71	6.71	297	297
<b>200 x 200</b>	6.0	35.80	45.63	2,830	2,830	7.88	7.88	283	283
	8.0	46.90	59.79	3,620	3,620	7.78	7.78	362	362
	9.0	52.30	66.67	3,990	3,990	7.73	7.73	399	399
	12.0	67.90	86.53	4,980	4,980	7.59	7.59	498	498
<b>250 x 250</b>	6.0	45.20	57.63	5,670	5,670	9.92	9.92	454	454
	9.0	66.50	84.67	8,090	8,090	9.78	9.78	647	647
	12.0	86.80	110.50	10,300	10,300	9.63	9.63	820	820
<b>300 x 300</b>	6.0	54.70	69.63	9,960	9,960	12.00	12.00	664	664
	9.0	80.60	102.70	14,300	14,300	11.80	11.80	956	956
	12.0	106.00	134.50	18,300	18,300	11.70	11.70	1,220	1,220
	16.0	138.00	175.20	23,100	23,100	11.50	11.50	1,540	1,540
<b>350 x 350</b>	9.0	94.70	120.70	23,200	23,200	13.90	13.90	1,320	1,320
	12.0	124.00	158.50	29,800	29,800	13.70	13.70	1,700	1,700
	16.0	163.00	207.20	37,900	37,900	13.50	13.50	2,160	2,160
<b>400 x 400</b>	9.0	109.00	138.70	35,100	35,100	15.90	15.90	1,750	1,750
	12.0	143.00	182.50	45,300	45,300	15.80	15.80	2,270	2,270
	16.0	188.00	239.20	57,900	57,900	15.60	15.60	2,900	2,900

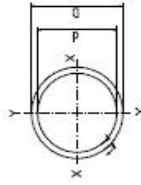
## RECTANGULAR HOLLOW SECTIONS



(Metric units)									
Section Size	Wall Thickness	Unit Weight	Section Area	Moment of Inertia		Radius of Gyration		Modulus of Section	
D x B	t	M	A	$I_x$	$I_y$	$i_x$	$i_y$	$Z_x$	$Z_y$
mm	mm	kg/m	cm <sup>2</sup>	cm <sup>4</sup>	cm <sup>4</sup>	cm	cm	cm <sup>3</sup>	cm <sup>3</sup>
150 x 75	3.0	10.13	12.90	379.41	129.85	5.42	3.17	50.58	34.62
	3.2	10.80	13.73	402	137	5.41	3.16	53.60	36.60
	4.5	14.85	18.91	538.22	182.03	5.33	3.10	71.77	48.54
	6.0	19.33	24.63	677.58	226.32	5.24	3.03	90.34	60.35
	9.0	27.60	35.17	905	297	5.07	2.91	121.00	79.20
150 x 100	3.0	11.31	14.40	460.45	247.47	5.65	4.14	61.39	49.49
	3.2	12.00	15.33	488	262	5.64	4.14	65.10	52.50
	4.5	16.60	21.17	658	352	5.58	4.08	87.70	70.40
	6.0	21.70	27.63	835	444	5.50	4.01	111.08	88.80
	9.0	31.10	39.67	1,430	595	5.33	3.87	151	119
200 x 100	4.5	20.10	25.67	1,330	455	7.20	4.21	133	90.90
	6.0	26.40	33.63	1,700	577	7.12	4.14	170	115
	9.0	38.20	48.67	2,350	782	6.94	4.01	235	156
200 x 150	6.0	31.10	39.63	2,270	1,460	7.56	6.06	227	194
	9.0	45.30	57.67	3,170	2,020	7.41	5.93	317	270
	12.0	58.50	74.53	3,920	2,500	7.25	5.79	392	330
250 x 150	6.0	35.80	45.63	3,890	1,770	9.23	6.23	311	236
	9.0	52.30	66.67	5,480	2,470	9.06	6.09	438	330
	12.0	67.90	86.53	6,850	3,070	8.90	5.95	548	409
300 x 200	6.0	45.20	57.63	7,370	3,960	11.30	8.29	491	396
	9.0	66.50	84.67	10,500	5,630	11.20	8.16	702	563
	12.0	86.80	110.50	13,400	7,110	11.00	8.02	890	711
400 x 200	6.0	54.70	69.63	14,800	5,090	14.60	8.55	739	509
	9.0	80.60	102.70	21,300	7,270	14.40	8.42	1,070	727
	12.0	106.00	134.50	27,300	9,230	14.20	8.28	1,360	923



Standard Sectional Dimension of Pipe Steel SCH-40 Steel and Its Sectional Area, Unit Weight and Sectional Characteristic



Nominal Size in	Outside Diameter D mm	Inside Diameter d mm	Thickness (t) mm	Sec. of Area (cm <sup>2</sup> )	Unit Weight (kg/m)	Sectional Properties				Note
						Geometrical Moment of Inertia (I) (cm <sup>4</sup> )	Radius of Gyration of Area (i) (cm)	Modulus of Section (cm <sup>3</sup> )	Outside Surface Area (m <sup>2</sup> /m)	
1/2	21.7	16.1	2.8	1.7	1.31	0.758	0.676	0.699	0.07	
3/4	27.2	21.4	2.9	2.2	1.74	1.657	0.865	1.218	0.09	
1	34.0	27.2	3.4	3.3	2.57	3.871	1.089	2.277	0.11	
1 1/4	42.7	35.5	3.6	4.4	3.47	8.518	1.388	3.990	0.13	
1 1/2	48.6	41.2	3.7	5.2	4.10	13.235	1.593	5.446	0.15	
2	60.5	52.7	3.9	6.9	5.44	27.888	2.006	9.219	0.19	
2 1/2	76.3	65.9	5.2	11.6	9.12	73.751	2.520	19.332	0.24	
3	89.1	78.1	5.5	14.4	11.34	126.677	2.962	28.435	0.28	
4	114.3	102.3	6.0	20.4	16.03	300.059	3.835	52.504	0.36	
5	139.8	126.6	6.6	27.6	21.68	613.707	4.715	87.798	0.44	
6	165.2	151.0	7.1	35.2	27.68	1103.491	5.595	133.594	0.52	
8	216.3	199.9	8.2	53.6	42.08	2904.983	7.363	268.607	0.68	
10	267.4	248.8	9.3	75.4	59.20	6284.202	9.131	470.023	0.84	
12	318.5	297.9	10.3	99.7	78.29	11848.396	10.903	744.012	1.00	
14	355.6	333.4	11.1	120.1	94.30	17831.216	12.186	1002.881	1.12	
16	406.4	381.0	12.7	157.0	123.31	30450.281	13.927	1498.537	1.28	

Note :

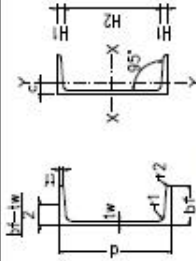
JIS G 3454 - Pressure Service  
 JIS G 3454 - High Pressure Service  
 JIS G 3454 - High Temperature Service

Standard Sectional Dimension of Single Channel Steel and Its Sectional Area, Unit Weight and Sectional Characteristic

d x bf mm mm		Sectional Dimension					Center of Grav. @ mm mm		Sectional Properties							Compact Section Criteria			*)		
		tw	tf	r1	r2	H1			H2	Unit Weight kg/m	Sec. of Area cm <sup>2</sup>	Geometrical Moment of Inertia (cm <sup>4</sup> ) Ix Iy	Radius of Gyration of Area (cm) ix iy	Modulus of Section (cm <sup>3</sup> ) Sx Sy	bf/2tf	d/tw	rT (cm)	d/af (cm)	Lc (cm)	Lu (cm)	
[ 50 x 38	5.0	7.0	7.0	3.5	14.9	20.3	1.37	7.10	5.57	26.40	9.10	1.93	1.13	10.56	3.74	2.71	10.00	1.21	1.88	48.4	299.3
[ 65 x 42	5.5	7.5	4.0	16.0	33.1	1.42	9.03	7.09	57.50	14.10	2.52	1.25	17.69	5.07	2.80	11.82	1.36	2.06	53.5	272.6	
[ 75 x 40	5.0	7.0	8.0	4.0	15.9	43.3	1.28	8.82	6.92	75.30	12.20	2.92	1.18	20.08	4.49	2.86	15.00	1.32	2.68	51.0	210.0
[ 80 x 45	6.0	8.0	8.0	4.0	17.0	45.9	1.45	11.00	8.63	106.00	19.40	3.10	1.33	26.50	6.36	2.81	13.33	1.48	2.22	57.4	253.2
[ 100 x 50	5.0	7.5	8.0	4.0	16.8	66.4	1.54	11.92	9.36	188.00	26.00	3.97	1.48	37.60	7.51	3.33	20.00	1.67	2.67	63.7	211.0
[ 50	6.0	8.5	8.5	4.5	18.2	63.6	1.55	13.50	10.60	206.00	29.30	3.91	1.47	41.20	8.49	2.94	16.67	1.66	2.35	63.7	239.1
[ 120 x 55	7.0	9.0	9.0	4.5	19.3	81.3	1.60	17.00	13.35	364.00	43.20	4.63	1.59	60.67	11.08	3.06	17.14	1.85	2.42	70.1	232.1
[ 125 x 65	6.0	8.0	8.0	4.0	17.9	89.2	1.90	17.11	13.43	424.00	61.80	4.98	1.90	67.84	13.43	4.06	20.83	2.21	2.40	82.9	234.0
[ 140 x 60	7.0	10.0	10.0	5.0	21.5	97.0	1.75	20.40	16.01	605.00	62.70	5.45	1.75	86.43	14.75	3.00	20.00	2.02	2.33	76.5	241.1
[ 150 x 75	6.5	10.0	10.0	5.0	22.2	105.7	2.28	23.71	18.61	861.00	117.00	6.03	2.22	114.80	22.41	3.75	23.08	2.52	2.00	95.6	281.3
[ 75	9.0	12.5	15.0	7.5	29.1	91.7	2.31	30.59	24.01	1050.00	147.00	5.86	2.19	140.00	28.32	3.00	16.67	2.49	1.60	95.6	351.6
[ 160 x 65	7.5	10.5	10.5	5.5	22.6	114.7	1.84	24.00	18.84	925.00	85.30	6.21	1.89	115.63	18.30	3.10	21.33	2.20	2.34	82.9	240.0
[ 180 x 75	7.0	10.5	11.0	5.5	23.6	132.9	2.13	27.20	21.35	1380.00	131.00	7.12	2.19	153.33	24.39	3.57	25.71	2.56	2.29	95.6	246.1
[ 200 x 80	7.5	11.0	12.0	6.0	25.2	149.7	2.21	31.33	24.59	1950.00	168.00	7.89	2.32	195.00	29.02	3.64	26.67	2.74	2.27	102.0	247.5
[ 90	8.0	13.5	14.0	7.0	29.9	140.2	2.74	38.65	30.34	2490.00	277.00	8.03	2.68	249.00	44.25	3.33	25.00	3.03	1.65	114.7	341.8
[ 220 x 80	9.0	9.0	12.5	6.5	27.1	165.9	2.14	37.40	29.36	2690.00	197.00	8.48	2.30	244.55	33.62	3.20	24.44	2.73	2.20	102.0	255.7
[ 240 x 85	9.5	13.0	13.0	6.5	28.2	183.6	2.23	42.30	33.21	3600.00	248.00	9.23	2.42	300.00	39.55	3.27	25.26	2.91	2.17	108.3	259.0
[ 250 x 90	9.0	13.0	14.0	7.0	29.4	191.3	2.40	44.07	34.59	4180.00	294.00	9.74	2.58	334.40	44.55	3.46	27.78	3.09	2.14	114.7	263.3
[ 90	11.0	14.5	17.0	8.5	33.5	182.9	2.40	51.17	40.17	4680.00	329.00	9.56	2.54	374.40	49.85	3.10	22.73	3.06	1.92	114.7	293.7

Note :

\*) Material : JIS G 3101 - SS 400  
 Fy = 2500 kg/cm<sup>2</sup> if tf ≤ 16 mm  
 Fy = 2400 kg/cm<sup>2</sup> if 16 mm < tf ≤ 40 mm  
 Fy = 2200 kg/cm<sup>2</sup> if tf > 40 mm



Standard Sectional Dimension of Equal Angle Steel and Its Sectional Area, Unit Weight and Sectional Characteristic

Sectional Dimension				Sectional Properties										Note					
A	B	t	K	r1	r2	Center of grav. (c)	Sec. of Area	Unit Weight	Geometrical Moment of Inertia (cm <sup>4</sup> )			Radius of Gyration of Area (cm)			Modulus of Section (cm <sup>3</sup> )				
mm	mm	mm	mm	mm	mm	mm	mm	kg/m	I <sub>x</sub> -I <sub>y</sub>	I <sub>x</sub>	I <sub>y</sub>	I <sub>uv</sub>	i <sub>x</sub> -i <sub>y</sub>	i <sub>x</sub>	i <sub>y</sub>	i <sub>uv</sub>	S <sub>x</sub> -S <sub>y</sub>	S <sub>v</sub>	S <sub>u</sub>
L	25 x 25	3.0	7.0	4.0	2.0	0.72	1.43	1.12	0.80	0.33	1.26	0.75	0.48	0.94	0.33	0.71	0.45	0.33	0.71
L	30 x 30	3.0	7.0	4.0	2.0	0.84	1.73	1.36	1.42	0.59	2.26	0.91	0.58	1.14	0.66	0.50	1.07	0.50	1.07
L	40 x 40	3.0	7.5	4.5	2.0	1.09	2.34	1.84	3.53	1.46	5.60	1.23	0.79	1.55	1.21	0.95	1.21	0.95	1.98
		4.0	10.0	6.0	3.0	1.12	3.08	2.42	4.48	1.87	7.12	1.21	0.78	1.52	1.18	0.95	1.55	1.18	2.52
		5.0	9.5	4.5	3.0	1.17	3.76	2.95	5.42	2.25	8.59	1.20	0.77	1.51	1.92	1.36	1.51	1.92	3.04
L	45 x 45	4.0	10.5	6.5	3.0	1.24	3.49	2.74	6.50	2.70	10.30	1.36	0.88	1.72	1.99	1.54	1.72	1.99	3.24
		5.0	11.5	6.5	3.0	1.28	4.30	3.38	7.91	3.29	12.50	1.36	0.87	1.70	2.46	1.82	2.46	1.82	3.93
L	50 x 50	4.0	10.5	6.5	3.0	1.37	3.89	3.05	9.06	3.76	14.40	1.53	0.98	1.92	2.50	1.94	2.50	1.94	4.07
		5.0	11.5	6.5	3.0	1.41	4.80	3.77	11.10	4.58	17.50	1.52	0.98	1.91	3.09	2.30	3.09	2.30	4.95
		6.0	12.5	6.5	4.5	1.44	5.64	4.43	12.60	5.23	20.00	1.49	0.96	1.88	3.54	2.57	3.54	2.57	5.66
L	60 x 60	4.0	10.5	6.5	3.0	1.61	4.69	3.68	16.00	6.62	25.40	1.85	1.19	2.33	3.64	2.91	3.64	2.91	5.99
		5.0	11.5	6.5	3.0	1.66	5.80	4.55	19.60	8.09	31.20	1.84	1.18	2.32	4.52	3.45	4.52	3.45	7.35
		6.0	14.0	8.0	4.0	1.69	6.91	5.42	22.80	8.28	36.24	1.82	1.09	2.29	5.29	3.46	5.29	3.46	8.54
L	65 x 65	5.0	13.5	8.5	3.0	1.77	6.37	5.00	25.30	10.50	40.10	1.99	1.28	2.51	5.35	4.19	5.35	4.19	8.72
		6.0	14.5	8.5	4.0	1.81	7.53	5.91	29.40	12.20	46.60	1.98	1.27	2.49	6.27	4.77	6.27	4.77	10.14
		8.0	16.5	8.5	6.0	1.88	9.76	7.66	36.80	15.30	58.30	1.94	1.25	2.44	7.97	5.75	7.97	5.75	12.68
L	70 x 70	6.0	14.5	8.5	4.0	1.93	8.13	6.38	37.10	15.30	58.90	2.14	1.37	2.69	7.32	5.61	7.32	5.61	11.90
		7.0	16.0	9.0	4.5	1.97	9.40	7.38	42.40	17.64	67.01	2.12	1.37	2.67	8.43	6.33	8.43	6.33	13.54
L	75 x 75	6.0	14.5	8.5	4.0	2.06	8.73	6.85	46.10	19.00	73.20	2.30	1.48	2.90	8.47	6.52	8.47	6.52	13.80
		8.0	18.0	10.0	5.0	2.13	11.50	9.03	58.90	24.51	93.41	2.26	1.46	2.85	10.97	8.14	10.97	8.14	17.61
		8.0	17.5	8.5	6.0	2.17	12.69	9.96	64.40	26.70	102.00	2.25	1.45	2.84	12.08	8.70	12.08	8.70	19.23
		12.0	20.5	8.5	6.0	2.29	15.56	13.00	81.90	34.50	129.00	2.22	1.44	2.79	15.72	10.65	15.72	10.65	24.32
L	80 x 80	6.0	14.5	8.5	4.0	2.18	9.33	7.32	56.40	23.20	89.60	2.46	1.58	3.10	9.59	7.53	9.59	7.53	15.84
		8.0	18.0	10.0	5.0	2.26	12.30	9.66	72.30	29.55	115.17	2.42	1.55	3.06	12.60	9.25	12.60	9.25	20.36

Note :

