

DENSE BAR STANDARD SIZES WEIGHTTABLE

(UNIT : kg)

【GRAY CAST IRON】

FC ROUND (E-C : φ17~φ240、E-2 : φ250~φ500)

φ	L	1,000mm	2,100mm	φ	L	1,000mm	3,000mm	φ	L	1,000mm	3,000mm
17	mm	1.6	3.4	95	mm	51.0	153.0	210	mm	249.4	748.2
20		2.3	4.8	100		56.5	169.5	220		273.7	821.1
22.5		2.9	6.1	105		62.3	186.9	230		299.9	899.7
25		3.6	7.6	110		68.4	205.2	240		325.7	977.1
28		4.4	9.2	115		74.8	224.4	φ	L	1,000mm	3,000mm
30		5.1	10.7	120		81.4	244.2	250	mm	353.4	1,060.2
32		5.8	12.2	125		88.4	265.2	260		382.1	1,146.3
35		6.9	14.5	130		95.6	286.8	270		412.0	1,236.0
38		8.2	17.2	135		103.1	309.3	285		459.1	1,377.3
φ	L	1,000mm	3,000mm	140		110.8	332.4	300		508.7	1,526.1
40	mm	9.1	27.3	145		118.9	356.7	310		543.2	1,629.6
42.5		10.2	30.6	150		127.2	381.6	325		597.0	1,791.0
45		11.4	34.2	155		135.9	407.7	350		692.4	2,077.2
50		14.1	42.3	160		144.8	434.4	365		753.0	2,259.0
55		17.1	51.3	165		154.0	462.0	380		816.1	2,448.3
60		20.4	61.2	170		163.4	490.2	400		904.3	2,712.9
65		23.9	71.7	175		173.2	519.6	410		950.1	2,850.3
70		27.7	83.1	180		183.2	549.6	435		1,069.5	3,208.5
75		31.8	95.4	185		193.5	580.5	450		1,144.5	3,433.5
80		36.2	108.6	190		204.1	612.3	475		1,275.2	3,825.6
85		40.9	122.7	200		226.2	678.6	500		1,413.0	4,239.0
90		45.8	137.4	205		237.6	712.8				

FC SQUARE (E-C : □40~□230、E-2 : □250~□500)

□	L	1,000mm	3,000mm	□	L	1,000mm	3,000mm	□	L	1,000mm	3,000mm
40	mm	11.5	34.5	105	mm	79.2	237.7	215	mm	332.8	998.4
45		14.5	43.7	110		87.1	261.0	230		380.9	1,142.7
50		18.0	54.0	115		95.1	285.2	□	L	1,000mm	3,000mm
55		21.7	65.3	120		103.5	310.7	250	mm	450.0	1,350.0
60		25.9	77.7	125		112.3	337.0	275		544.5	1,633.5
65		30.4	91.2	130		121.4	364.4	300		648.0	1,944.0
70		35.2	105.8	140		140.9	422.7	325		760.5	2,281.5
75		40.4	121.3	150		161.8	485.4	350		882.0	2,646.0
80		45.9	137.9	160		184.1	552.3	375		1,012.5	3,037.5
85		51.9	155.6	170		207.8	623.6	400		1,152.0	3,456.0
90		58.2	174.6	180		232.6	698.0	450		1,458.0	4,374.0
95		64.8	194.5	190		259.9	779.7	500		1,800.0	5,400.0
100		71.9	215.7	200		287.4	862.2				

FC RECTANGLE (E-C : 20×45~215×245、E-2 : 100×250)

	L	1,000mm	3,000mm		L	1,000mm	3,000mm		L	1,000mm	3,000mm
20 × 45	mm	6.5	19.5	38 × 75	mm	20.5	61.5	75 × 90	mm	48.6	145.8
20 × 55		7.9	23.7	40 × 85		24.5	73.5	75 × 100		54.0	162.0
20 × 85		12.2	36.6	43 × 50		15.5	46.5	75 × 125		67.5	202.5
20 × 105		15.1	45.3	45 × 85		27.5	82.5	75 × 150		81.0	243.0
22 × 70		11.1	33.3	45 × 110		35.6	106.8	80 × 170		97.9	293.7
25 × 50		9.0	27.0	45 × 130		42.1	126.3	90 × 125		81.0	243.0
25 × 60		10.8	32.4	50 × 65		23.4	70.2	90 × 150		97.2	291.6
25 × 75		13.5	40.5	50 × 75		27.0	81.0	100 × 125		90.0	270.0
25 × 100		18.0	54.0	50 × 100		36.0	108.0	100 × 150		108.0	324.0
25 × 125		22.5	67.5	50 × 150		54.0	162.0	100 × 200		144.0	432.0
29 × 53		11.1	33.3	55 × 105		41.6	124.8	110 × 170		134.6	403.8
30 × 60		13.0	39.0	55 × 125		49.5	148.5	125 × 190		171.0	513.0
30 × 80		17.3	51.9	55 × 186		73.7	221.1	130 × 215		201.2	603.6
30 × 145		31.3	93.9	60 × 75		32.4	97.2	140 × 175		176.4	529.2
35 × 75		18.9	56.7	60 × 100		43.2	129.6	215 × 245		379.3	1,137.9
35 × 90		22.7	68.1	65 × 75		35.1	105.3		L	1,000mm	3,000mm
35 × 100		25.2	75.6	65 × 100		46.8	140.4	100 × 250	mm	180.0	540.0
35 × 125		31.5	94.5	65 × 125		58.5	175.5				
35 × 150		37.8	113.4	70 × 130		65.5	196.5				

DENSE BAR STANDARD SIZES WEIGHTTABLE

(UNIT : kg)

[DUCTILE CAST IRON]

FCD ROUND (D-4・D-S : φ40~φ500、D-5 : φ40~φ200)

※Sizes upto φ200mm can be manufactured D-6 materials.

φ	L	1,000mm	3,000mm	φ	L	1,000mm	3,000mm	φ	L	1,000mm	3,000mm
40	mm	9.1	27.3	105	mm	62.3	186.9	185	mm	193.5	580.5
45		11.4	34.2	110		68.4	205.2	200		226.2	678.6
50		14.1	42.3	115		74.8	224.4	220		273.7	821.1
55		17.1	51.3	120		81.4	244.2	230		299.9	899.7
60		20.4	61.2	125		88.4	265.2	250		353.4	1,060.2
65		23.9	71.7	130		95.6	286.8	285		459.1	1,377.3
70		27.7	83.1	135		103.1	309.3	300		508.7	1,526.1
75		31.8	95.4	145		118.9	356.7	350		692.4	2,077.2
80		36.2	108.6	150		127.2	381.6	400		904.3	2,712.9
85		40.9	122.7	155		135.9	407.7	450		1,144.5	3,433.5
90		45.8	137.4	165		154.0	462.0	500		1,413.0	4,239.0
95		51.0	153.0	170		163.4	490.2				
100		56.5	169.5	175		173.2	519.6				

※APPLICABLE JIS STANDARD=D-4 : FCD400、D-S : FCD450、D-5 : FCD500

D-4 SQUARE

□	L	1,000mm	3,000mm	□	L	1,000mm	3,000mm	□	L	1,000mm	3,000mm
55	mm	21.7	65.3	85	mm	51.9	155.6	125	mm	112.3	337.0
65		30.4	91.2	95		64.8	194.5	150		161.8	485.4
75		40.4	121.3	105		79.2	237.7				

D-4 RECTANGLE

	L	1,000mm	3,000mm		L	1,000mm	3,000mm		L	1,000mm	3,000mm
50 × 75	mm	27.0	81.0	75 × 100	mm	54.0	162.0	156 × 207	mm	232.5	697.5
50 × 100		36.0	108.0	75 × 150		81.0	243.0	204 × 394		578.7	1,736.1
50 × 150		54.0	162.0	100 × 150		108.0	324.0	275 × 435		861.3	2,583.9
65 × 100		46.8	140.4	110 × 245		194.0	582.0	355 × 405		1,035.2	3,105.6

D-5 RECTANGLE

	L	1,000mm	3,000mm		L	1,000mm	3,000mm		L	1,000mm	3,000mm
43 × 50	mm	15.5	46.5	60 × 75	mm	32.4	97.2	100 × 150	mm	108.0	324.0
50 × 65		23.4	70.2								

DENSE BAR SEMI STANDARD SIZES WEIGHTTABLE

(UNIT : kg)

[GRAY CAST IRON]

[GRAY CAST IRON]

[DUCTILE CAST IRON]

E-C RECTANGLE

E-2 RECTANGLE

D-4 RECTANGLE

	L	1,000mm	3,000mm		L	1,000mm	3,000mm	φ	L	1,000mm	2,100mm
35 × 40	mm	10.1	30.3	150 × 510	mm	550.8	1,652.4	20	mm	2.3	4.8
60 × 73		31.5	94.5	150 × 710		766.8	2,300.4	30		5.1	10.7
62 × 115		51.3	153.9	150 × 910		982.8	2,948.4	35		6.9	14.5
64 × 86		39.6	118.8								
72 × 76		39.4	118.2								
74 × 85		45.3	135.9								
77 × 95		52.7	158.1								
75 × 120		64.8	194.4								
80 × 150		86.4	259.2								
115 × 180		149.0	447.0								

[DUCTILE CAST IRON]

D-4 SQUARE

D-4 RECTANGLE

D-4 SQUARE

	L	1,000mm	3,000mm		L	1,000mm	3,000mm	□	L	1,000mm	3,000mm
111 × 136	mm	108.7	326.1	215	mm	332.8	998.4	215	mm	332.8	998.4
250 × 350		630.0	1,890.0	325		760.5	2,281.5	325		760.5	2,281.5
				510		1,872.7	5,618.1	510		1,872.7	5,618.1

※Semi standard sizes are not always in stock. Your inquiry is welcome.

※Information included in this list are subject to change with or without notice.

※Please contact us for sizes other than those listed above.

【TOLERANCE RANGE】

◆DIMENSIONAL TOLERANCE

SHAPE	MATERIAL SIZES	DIAMETER TOLERANCE (mm)		
		E-C · E-2	D-4	D-S · D-5
ROUND	~ ϕ 45mm	0 ~ + 1.0mm	0 ~ + 2.0mm	0 ~ + 3.0mm
	ϕ 45 ~ ϕ 100mm	0 ~ + 1.5mm	0 ~ + 2.5mm	0 ~ + 3.5mm
	ϕ 100 ~ ϕ 150mm	0 ~ + 2.0mm	0 ~ + 3.0mm	- 0.5 ~ + 4.0mm
	ϕ 150 ~ ϕ 200mm	- 0.5 ~ + 3.0mm	- 0.5 ~ + 4.0mm	- 1.0 ~ + 5.0mm
	ϕ 200 ~ ϕ 270mm	- 1.0 ~ + 4.0mm	- 1.0 ~ + 5.0mm	- 2.0 ~ + 6.0mm
	ϕ 270 ~ ϕ 350mm	- 1.5 ~ + 7.0mm	- 2.0 ~ + 8.0mm	- 2.5 ~ + 9.0mm
	ϕ 350 ~ ϕ 500mm	- 2.0 ~ + 8.0mm	- 3.0 ~ + 10.0mm	- 3.0 ~ + 10.0mm
SQUARE & FLAT	~ \square 45mm	0 ~ + 1.5mm	0 ~ + 2.5mm	0 ~ + 2.5mm
	\square 45 ~ \square 100mm	0 ~ + 2.0mm	0 ~ + 3.0mm	0 ~ + 3.0mm
	\square 100 ~ \square 140mm	0 ~ + 3.0mm	0 ~ + 4.0mm	0 ~ + 4.0mm
	\square 140 ~ \square 200mm	0 ~ + 4.0mm	0 ~ + 4.0mm	0 ~ + 4.0mm
	\square 200 ~ \square 510mm	- 1.0 ~ + 7.0mm	0 ~ + 4.0mm	0 ~ + 4.0mm
	\square 510 ~ \square 910mm	- 2.0 ~ + 10.0mm	-	-

* Convex and irregular shapes are within dimensional tolerances.

* For flat shape, the reference length is the long side.

◆MACHINING ALLOWANCE

SHAPE	MATERIAL SIZES	MACHINING ALLOWANCE (ONE SIDE)	
		E-C · E-2	D-4 · D-S · D-5
ROUND	~ ϕ 25mm	1.0mm (0.5mm)	1.6mm (0.8mm)
	ϕ 25 ~ ϕ 45mm	1.6mm (0.8mm)	2.0mm (1.0mm)
	ϕ 45 ~ ϕ 100mm	3.0mm (1.5mm)	3.0mm (1.5mm)
	ϕ 100 ~ ϕ 150mm	4.0mm (2.0mm)	4.0mm (2.0mm)
	ϕ 150 ~ ϕ 270mm	5.0mm (2.5mm)	5.0mm (2.5mm)
	ϕ 270 ~ ϕ 435mm	10.0mm (5.0mm)	12.0mm (6.0mm)
	ϕ 435 ~ ϕ 500mm	12.0mm (6.0mm)	14.0mm (7.0mm)
SQUARE & FLAT	~ \square 25mm	3.0mm (1.5mm)	4.0mm (2.0mm)
	\square 25 ~ \square 45mm	4.0mm (2.0mm)	5.0mm (2.5mm)
	\square 45 ~ \square 100mm	5.0mm (2.5mm)	7.0mm (3.5mm)
	\square 100 ~ \square 150mm	6.0mm (3.0mm)	8.0mm (4.0mm)
	\square 150 ~ \square 200mm	8.0mm (4.0mm)	10.0mm (5.0mm)
	\square 200 ~ \square 300mm	10.0mm (5.0mm)	12.0mm (6.0mm)
	\square 300 ~ \square 510mm	12.0mm (6.0mm)	14.0mm (7.0mm)
	\square 510 ~ \square 910mm	12.0mm (6.0mm)	

* Convex and irregular shapes are within dimensional tolerances.

* For flat shape, the reference length is the long side.



ITOGI C&E GROUP

Casting for industrial foundation 産業の礎に
Environment for our future この国の未来に