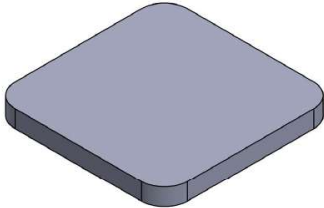
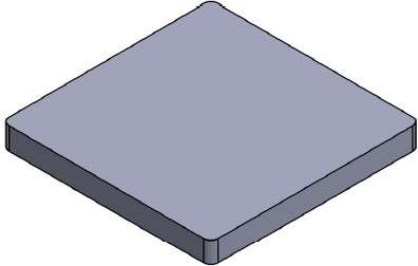
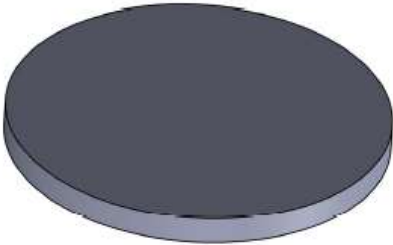
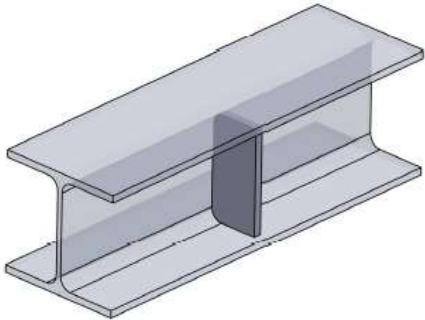
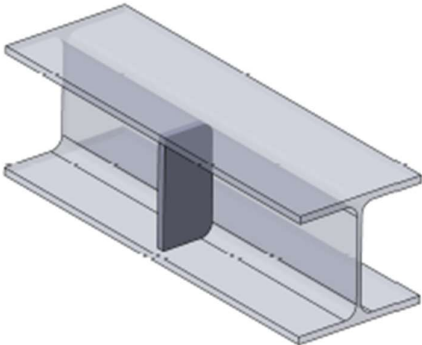
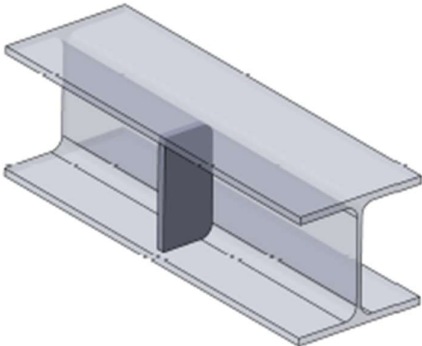
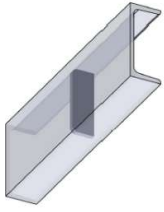
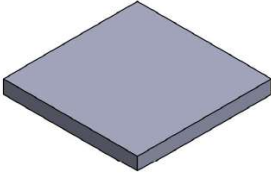

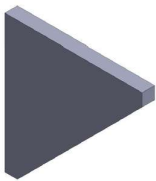


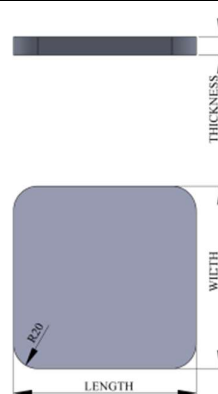
13		PLATES	
13.1	T-PL-001 SQUARE AND RECTANGULAR PLATES	13.2	T-PL-002 SQUARE AND RECTANGULAR CAP PLATES
			
13.3	T-PL-003 CIRCULAR PLATES	13.4	T-PL-004 HEA SECTION STIFFENER PLATES
			
13.5	T-PL-005 HEB SECTION STIFFENER PLATES	13.6	T-PL-006 IPA SECTION STIFFENER PLATES
			

13	PLATES		
13.7	T-PL-007 UNP SECTION STIFFENER PLATES	13.8	T-PL-008 SQUARE AND RECTANGULAR PLATES
			
13.9	T-PL-199 SPECIAL SQUARE/ RECTANGULAR PLATES WITH 4 BOLT-HOLES	13.10	T-PL-921 GUSSET PLATES
			

13.1 SQUARE AND RECTANGULAR PLATES
PL-001

STANDARD SQUARE PLATES	WEIGHT in kg	
	CS	SS
T-PL-001-50-50-10	0.15	0.16
T-PL-001-100-100-10	0.62	0.63
T-PL-001-150-150-10	1.39	1.41
T-PL-001-150-150-15	2.08	2.12
T-PL-001-200-200-15	3.70	3.77
T-PL-001-250-250-15	5.78	5.89
T-PL-001-300-300-20	11.10	11.31
T-PL-001-350-350-20	15.11	15.39
T-PL-001-400-400-20	19.73	20.11
T-PL-001-450-450-20	24.97	25.45
T-PL-001-500-500-20	30.83	31.42
T-PL-001-550-550-20	37.30	38.01
T-PL-001-600-600-20	44.39	45.24
T-PL-001-650-650-20	52.10	53.09
T-PL-001-700-700-20	60.42	61.58
T-PL-001-800-800-20	78.92	80.42
T-PL-001-850-850-20	89.09	90.79
T-PL-001-900-900-20	99.88	101.79
T-PL-001-950-950-20	111.29	113.41
T-PL-001-1000-1000-20	123.31	125.66
T-PL-001-1050-1050-20	135.95	138.54
T-PL-001-1100-1100-20	149.20	152.05

STANDARD RECTANGULAR PLATES	WEIGHT in kg	
	CS	SS
T-PL-001-100-50-10	0.4	0.4
T-PL-001-150-80-10	0.9	0.96
T-PL-001-150-100-10	1.2	1.2
T-PL-001-200-100-10	1.6	1.6
T-PL-001-200-120-10	1.9	1.92
T-PL-001-200-150-15	3.5	3.6
T-PL-001-200-180-15	4.2	4.32
T-PL-001-250-120-15	3.5	3.6
T-PL-001-250-150-15	4.4	4.5
T-PL-001-250-200-15	5.9	6
T-PL-001-300-200-15	7.1	7.2
T-PL-001-350-200-15	8.2	8.4
T-PL-001-350-200-20	11.0	11.2
T-PL-001-450-200-20	14.1	14.4
T-PL-001-550-200-20	17.3	17.6

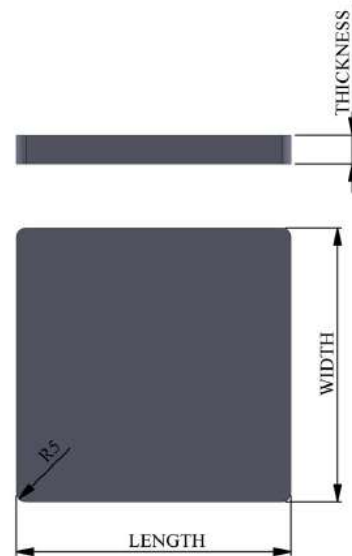


Impact Test Reqd. for the below min design temp.
 For Matl. Code SS (-)196° c, For Matl. Code LTCS , LD , Du , SDu (-)46°c

TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-001-(LENGTH)-(WIDTH)-(THICKNESS)-(CS)	CS	350°c	-20°c
T-PL-001-(LENGTH)-(WIDTH)-(THICKNESS)-(LCS)	LCS	350°c	-46°c
T-PL-001-(LENGTH)-(WIDTH)-(THICKNESS)-(SS)	SS	350°c	-196°c (-105°c) (Refer Note)
T-PL-001-(LENGTH)-(WIDTH)-(THICKNESS)-(AL)	AL	150 °c	(-) 253 °c
T-PL-001-(LENGTH)-(WIDTH)-(THICKNESS)-(Ti)	Ti	150°c	(-) 196 °c
T-PL-001-(LENGTH)-(WIDTH)-(THICKNESS)-(LD)	LD	350°c	(-) 46 °c
T-PL-001-(LENGTH)-(WIDTH)-(THICKNESS)-(Du)	Du	100°c (Operating)	(-) 46 °c
T-PL-001-(LENGTH)-(WIDTH)-(THICKNESS)-(SDu)	S.Du.	100°c (Operating)	(-) 46 °c

13.2 SQUARE AND RECTANGULAR CAP PLATES
PL-002

STANDARD RECT. CAP PLATES	FOR SECTION	WEIGHT in kg	
		CS	SS
T-PL-002-54-54-6	SHS 60	0.14	0.14
T-PL-002-74-74-6	SHS 80	0.26	0.26
T-PL-002-94-94-6	SHS 100	0.42	0.42
T-PL-002-114-114-6	SHS 120	0.61	0.62
T-PL-002-144-144-6	SHS 150	0.98	1.00
T-PL-002-194-194-6	SHS 200	1.77	1.81
T-PL-002-244-244-6	SHS 250	2.80	2.86
T-PL-002-294-294-6	SHS 300	4.07	4.15
T-PL-002-79-54-6	SHS 60 AT 45°	0.20	0.20
T-PL-002-107-74-6	SHS 80 AT 45°	0.37	0.38
T-PL-002-135-94-6	SHS 100 AT 45°	0.60	0.61
T-PL-002-164-114-6	SHS 120 AT 45°	0.88	0.90
T-PL-002-206-144-6	SHS 150 AT 45°	1.40	1.42
T-PL-002-277-194-6	SHS 200 AT 45°	2.53	2.58
T-PL-002-348-244-6	SHS 250 AT 45°	4.00	4.08
T-PL-002-418-294-6	SHS 300 AT 45°	5.79	5.90
T-PL-002-144-94-6	RHS 150 x 100	0.64	0.65
T-PL-002-194-94-6	RHS 200 x 100	0.86	0.88
T-PL-002-194-114-6	RHS 200 x 120	1.04	1.06
T-PL-002-194-144-6	RHS 200 x 150	1.32	1.34
T-PL-002-294-194-6	RHS 300 x 200	2.69	2.74
T-PL-002-394-194-6	RHS 400 x 200	3.60	3.67
T-PL-002-206-94-6	RHS 150 x 100 AT 45° (1)	0.91	0.93
T-PL-002-144-135-6	RHS 150 x 100 AT 45° (2)	0.92	0.93
T-PL-002-277-94-6	RHS 200 x 100 AT 45° (1)	1.23	1.25
T-PL-002-194-135-6	RHS 200 x 100 AT 45° (2)	1.23	1.26
T-PL-002-277-114-6	RHS 200 x 120 AT 45° (1)	1.49	1.52
T-PL-002-194-164-6	RHS 200 x 120 AT 45° (2)	1.50	1.53
T-PL-002-277-144-6	RHS 200 x 150 AT 45° (1)	1.88	1.91
T-PL-002-194-206-6	RHS 200 x 150 AT 45° (2)	1.88	1.92
T-PL-002-418-194-6	RHS 300 x 200 AT 45°	3.82	3.89
T-PL-002-560-194-6	RHS 400 x 200 AT 45°	5.12	5.21



TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-002-(LENGTH)-(WIDTH)-(THICKNESS)-(CS)	CS	350°c	-20°c
T-PL-002-(LENGTH)-(WIDTH)-(THICKNESS)-(LCS)	LCS	350°c	-46°c
T-PL-002-(LENGTH)-(WIDTH)-(THICKNESS)-(SS)	SS	350°c	-196°c (-105°c) (Refer Note)
T-PL-002-(LENGTH)-(WIDTH)-(THICKNESS)-(AL)	AL	150 °c	(-) 253 °c
T-PL-002-(LENGTH)-(WIDTH)-(THICKNESS)-(Ti)	Ti	150°c	(-) 196 °c
T-PL-002-(LENGTH)-(WIDTH)-(THICKNESS)-(LD)	LD	350°c	(-) 46 °c
T-PL-002-(LENGTH)-(WIDTH)-(THICKNESS)-(Du)	Du	100°c (Operating)	(-) 46 °c
T-PL-002-(LENGTH)-(WIDTH)-(THICKNESS)-(SDu)	S.Du.	100°c (Operating)	(-) 46 °c

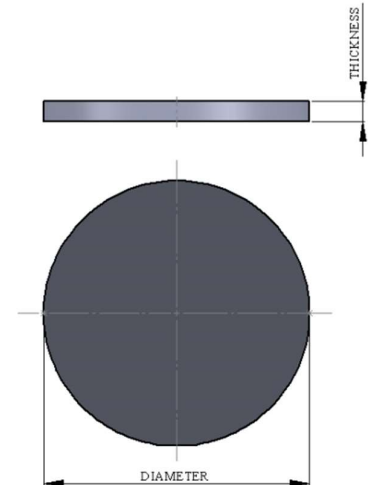
NOTE

Impact Test Req'd. for the below min design temp.
For Matl. Code SS (-)196° c , For Matl. Code LTCS , LD , Du , SDu (-)46°c

13.3 CIRCULAR PLATES
PL-003

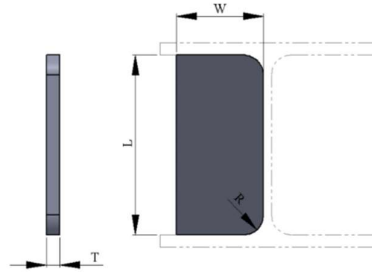
STANDARD BASE PLATES	WEIGHT in kg	
	CS	SS
T-PL-003-100-10	0.6	0.6
T-PL-003-150-10	1.4	1.4
T-PL-003-150-15	2.1	2.1
T-PL-003-200-15	3.7	3.8
T-PL-003-250-15	5.8	5.9
T-PL-003-300-20	11.1	11.3
T-PL-003-350-20	15.1	15.4
T-PL-003-400-20	19.7	20.1
T-PL-003-450-20	25.0	25.4
T-PL-003-500-20	30.8	31.4
T-PL-003-550-20	37.3	38.0
T-PL-003-600-20	44.4	45.2
T-PL-003-650-20	52.1	53.1

STANDARD CAP PLATES	FOR PIPE	WEIGHT in kg	
		CS	SS
T-PL-003-28-6	DN 25	0.03	0.03
T-PL-003-42-6	DN 40	0.07	0.07
T-PL-003-54-6	DN 50	0.11	0.11
T-PL-003-83-6	DN 80	0.25	0.26
T-PL-003-108-6	DN 100	0.43	0.44
T-PL-003-135-6	DN 125	0.67	0.69
T-PL-003-162-6	DN 150	0.97	0.99
T-PL-003-213-6	DN 200	1.68	1.71
T-PL-003-267-6	DN 250	2.64	2.69
T-PL-003-318-6	DN 300	3.74	3.81
T-PL-003-350-6	DN 350	4.53	4.62
T-PL-003-400-6	DN 400	5.92	6.03
T-PL-003-451-6	DN 450	7.52	7.67
T-PL-003-502-6	DN 500	9.32	9.50
T-PL-003-604-6	DN 600	13.50	13.75
T-PL-003-705-6	DN 700	18.39	18.74
T-PL-003-756-6	DN 750	21.14	21.55
T-PL-003-807-6	DN 800	24.09	24.55
T-PL-003-858-6	DN 850	27.23	27.75
T-PL-003-908-6	DN 900	30.50	31.08
T-PL-003-959-6	DN 950	34.02	34.67
T-PL-003-1010-6	DN 1000	37.74	38.46
T-PL-003-1061-6	DN 1050	41.64	42.44
T-PL-003-1112-6	DN 1100	45.74	46.62



TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-003-(DIAMETER)-(THICKNESS)-(CS)	CS	350°C	-20°C
T-PL-003-(DIAMETER)-(THICKNESS)-(LCS)	LCS	350°C	-46°C
T-PL-003-(DIAMETER)-(THICKNESS)-(SS)	SS	350°C	-196°C (-105°C) (Refer Note)
T-PL-003-(DIAMETER)-(THICKNESS)-(AL)	AL	150 °c	(-) 253 °c
T-PL-003-(DIAMETER)-(THICKNESS)-(Ti)	Ti	150°C	(-) 196 °c
T-PL-003-(DIAMETER)-(THICKNESS)-(LD)	LD	350°C	(-) 46 °c
T-PL-003-(DIAMETER)-(THICKNESS)-(Du)	Du	100°C (Operating)	(-) 46 °c
T-PL-003-(DIAMETER)-(THICKNESS)-(SDu)	S.Du.	100°C (Operating)	(-) 46 °c

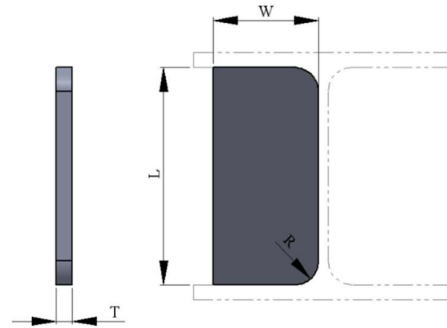
NOTE
 Impact Test Req'd. for the below min design temp.
 For Matl. Code SS (-)196° c , For Matl. Code LCS , LD , Du , SDu (-)46°c

13.4 HEA SECTION STIFFENER PLATES
PL-004


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-004-000A-CS	CS	150 °c	(-) 20 °c
T-PL-004-000A-SS	SS	150°c	-196°c (-105°c) (Refer Note)

TYPE	PLATE DIMENSIONS				SECTION (REF)	WEIGHT in kg	
	L	W	T	R		CS	SS
T-PL-004-000A	80	40	10	12	HEA 100	0.25	0.26
T-PL-004-000B	98	45	10	12	HEA 120	0.35	0.35
T-PL-004-000C	116	55	10	12	HEA 140	0.50	0.51
T-PL-004-000D	134	65	10	15	HEA 160	0.68	0.70
T-PL-004-000E	152	75	10	15	HEA 180	0.89	0.91
T-PL-004-000F	170	85	10	18	HEA 200	1.13	1.16
T-PL-004-000G	188	95	10	18	HEA 220	1.40	1.43
T-PL-004-000H	206	105	10	21	HEA 240	1.70	1.73
T-PL-004-000I	225	115	10	24	HEA 260	2.03	2.07
T-PL-004-000J	244	125	10	24	HEA 280	2.39	2.44
T-PL-004-000K	262	130	10	27	HEA 300	2.67	2.72
T-PL-004-000L	279	135	10	27	HEA 320	2.96	3.01
T-PL-004-000M	297	135	10	27	HEA 340	3.15	3.21
T-PL-004-000N	315	135	10	27	HEA 360	3.34	3.40
T-PL-004-000O	352	135	10	27	HEA 400	3.73	3.80
T-PL-004-000P	398	135	10	27	HEA 450	4.22	4.30
T-PL-004-000Q	444	135	10	27	HEA 500	4.71	4.80
T-PL-004-000R	492	135	10	27	HEA 550	5.21	5.31
T-PL-004-000S	540	135	10	27	HEA 600	5.72	5.83
T-PL-004-000T	588	130	15	27	HEA 650	9.00	9.17
T-PL-004-000U	636	130	15	27	HEA 700	9.74	9.92
T-PL-004-000V	734	130	15	30	HEA 800	11.24	11.45
T-PL-004-000W	830	130	15	30	HEA 900	12.71	12.95
T-PL-004-000X	928	130	15	30	HEA 1000	14.21	14.48

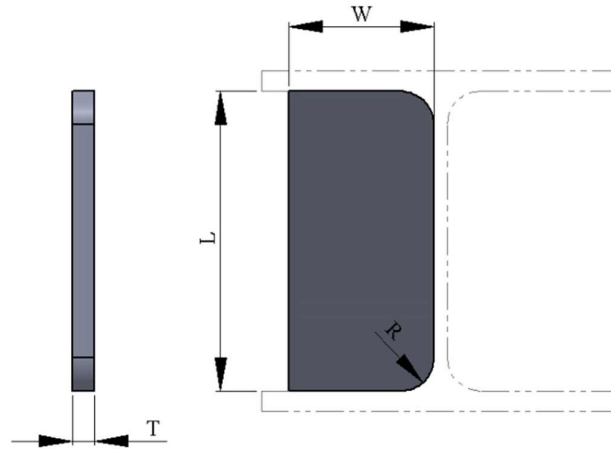
NOTE
Impact Test Reqd. for the below min design temp.
For Matl. Code SS (-)196° c

13.5 HEB SECTION STIFFENER PLATES
PL-005


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-005-000A-CS	CS	150 °c	(-) 20 °c
T-PL-005-000A-SS	SS	150°c	-196°c (-105°c) (Refer Note)

TYPE	PLATE DIMENSIONS				SECTION (REF)	WEIGHT in kg	
	L	W	T	R		CS	SS
T-PL-005-000A	80	35	10	12	HEB 100	0.22	0.22
T-PL-005-000B	98	45	10	12	HEB 120	0.35	0.35
T-PL-005-000C	116	55	10	12	HEB 140	0.50	0.51
T-PL-005-000D	134	65	10	15	HEB 160	0.68	0.70
T-PL-005-000E	152	75	10	15	HEB 180	0.89	0.91
T-PL-005-000F	170	85	10	18	HEB 200	1.13	1.16
T-PL-005-000G	188	95	10	18	HEB 220	1.40	1.43
T-PL-005-000H	206	105	10	21	HEB 240	1.70	1.73
T-PL-005-000I	225	115	10	24	HEB 260	2.03	2.07
T-PL-005-000J	244	125	10	24	HEB 280	2.39	2.44
T-PL-005-000K	262	135	10	27	HEB 300	2.78	2.83
T-PL-005-000L	279	135	10	27	HEB 320	2.96	3.01
T-PL-005-000M	297	135	10	27	HEB 340	3.15	3.21
T-PL-005-000N	315	135	10	27	HEB 360	3.34	3.40
T-PL-005-000O	352	130	15	27	HEB 400	5.39	5.49
T-PL-005-000P	398	130	15	27	HEB 450	6.09	6.21
T-PL-005-000Q	444	130	15	27	HEB 500	6.80	6.93
T-PL-005-000R	492	130	15	27	HEB 550	7.53	7.68
T-PL-005-000S	540	130	15	27	HEB 600	8.27	8.42
T-PL-005-000T	588	130	15	27	HEB 650	9.00	9.17
T-PL-005-000U	636	130	15	27	HEB 700	9.74	9.92
T-PL-005-000V	734	130	20	30	HEB 800	14.98	15.27
T-PL-005-000W	830	130	20	30	HEB 900	16.94	17.26
T-PL-005-000X	928	130	20	30	HEB 1000	18.94	19.30

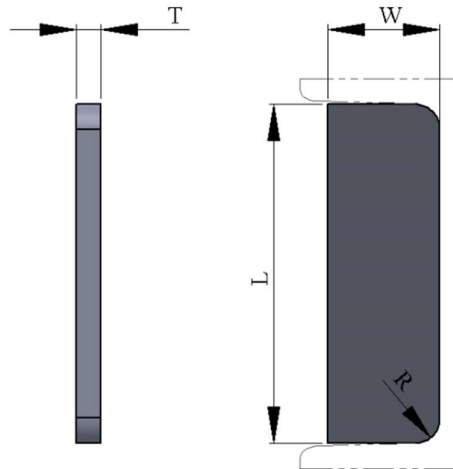
NOTE
Impact Test Reqd. for the below min design temp.
For Matl. Code SS (-)196° c

13.6 IPE SECTION STIFFENER PLATES
PL-006


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-006-000A-CS	CS	150 °c	(-) 20 °c
T-PL-006-000A-SS	SS	150°c	-196°c (-105°c) (Refer Note)

TYPE	PLATE DIMENSIONS				SECTION (REF)	WEIGHT in kg	
	L	W	T	R		CS	SS
T-PL-006-000A	69	15	10	5	IPE 80	0.1	0.1
T-PL-006-000B	88	15	10	7	IPE 100	0.1	0.1
T-PL-006-000C	107	20	10	7	IPE 120	0.2	0.2
T-PL-006-000D	126	25	10	7	IPE 140	0.2	0.3
T-PL-006-000E	145	30	10	9	IPE 160	0.3	0.3
T-PL-006-000F	164	30	10	9	IPE 180	0.4	0.4
T-PL-006-000G	183	35	10	12	IPE 200	0.5	0.5
T-PL-006-000H	201	40	10	12	IPE 220	0.6	0.6
T-PL-006-000I	220	45	10	15	IPE 240	0.8	0.8
T-PL-006-000J	249	55	10	15	IPE 270	1.1	1.1
T-PL-006-000K	278	60	10	15	IPE 300	1.3	1.3
T-PL-006-000L	307	65	10	18	IPE 330	1.6	1.6
T-PL-006-000M	334	65	10	18	IPE 360	1.7	1.7
T-PL-006-000N	373	75	10	21	IPE 400	2.2	2.2
T-PL-006-000O	420	80	10	21	IPE 450	2.6	2.7
T-PL-006-000P	468	85	10	21	IPE 500	3.1	3.2
T-PL-006-000Q	515	90	10	24	IPE 550	3.6	3.7
T-PL-006-000R	562	95	10	24	IPE 600	4.2	4.3

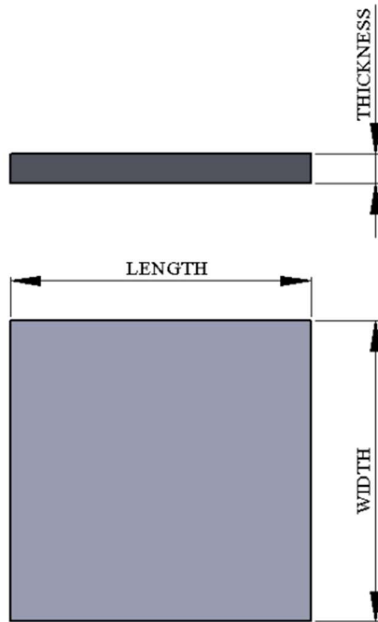
NOTE
Impact Test Reqd. for the below min design temp.
For Matl. Code SS (-196° c

13.7 UNP SECTION STIFFENER PLATES
PL-007


TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-007-000A-CS	CS	150 °c	(-) 20 °c
T-PL-007-000A-SS	SS	N/A	-196°c (-105°c) (Refer Note)

TYPE	PLATE DIMENSIONS				SECTION (REF)	WEIGHT in kg	
	L	W	T	R		CS	SS
T-PL-007-000A	84	35	10	8.5	UNP 100	0.23	0.24
T-PL-007-000B	96	40	10	9	UNP 120	0.30	0.31
T-PL-007-000C	118	40	10	10	UNP 140	0.37	0.38
T-PL-007-000D	140	50	10	10.5	UNP 160	0.55	0.56
T-PL-007-000E	154	50	10	11	UNP 180	0.60	0.62
T-PL-007-000F	172	55	10	11.5	UNP 200	0.74	0.76
T-PL-007-000G	192	60	10	12.5	UNP 220	0.90	0.92
T-PL-007-000H	212	65	10	13	UNP 240	1.08	1.10
T-PL-007-000I	228	70	10	14	UNP 260	1.25	1.28
T-PL-007-000J	248	75	10	15	UNP 280	1.46	1.49
T-PL-007-000K	264	80	10	16	UNP 300	1.66	1.69
T-PL-007-000L	278	70	10	17.5	UNP 320	1.53	1.56
T-PL-007-000M	312	70	10	16	UNP 350	1.71	1.75
T-PL-007-000N	342	75	10	16	UNP 380	2.01	2.05
T-PL-007-000O	362	85	10	18	UNP 400	2.42	2.46

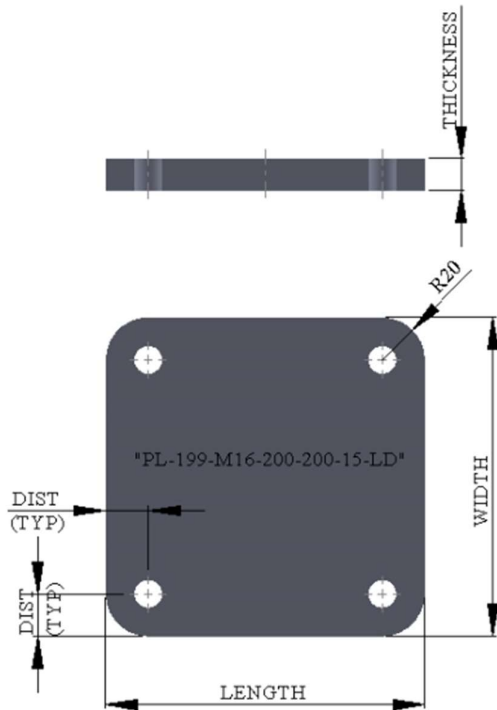
NOTE
Impact Test Req'd. for the below min design temp.
For Matl. Code SS (-)196° c

13.8 SQUARE AND RECTANGULAR PLATES
PL-008


PREFERRED PLATES DIMENSIONS					
LENGTH x WIDTH	WEIGHT in kg		LENGTH x WIDTH	WEIGHT in kg	
	CS	SS		CS	SS
50 x 50 x 10	0.20	0.2	100 x 50 x 10	0.39	0.40
100 x 100 x 10	0.79	0.8	150 x 80 x 10	0.94	0.96
150 x 150 x 10	1.77	1.8	150 x 100 x 10	1.18	1.20
150 x 150 x 15	2.65	2.7	200 x 100 x 10	1.57	1.60
200 x 200 x 15	4.71	4.8	200 x 120 x 10	1.88	1.92
250 x 250 x 15	7.36	7.5	200 x 150 x 15	3.53	3.60
300 x 300 x 15	10.60	10.8	200 x 180 x 15	4.24	4.32
350 x 350 x 20	19.23	19.6	250 x 120 x 15	3.53	3.60
400 x 400 x 20	25.12	25.6	250 x 150 x 15	4.42	4.50
450 x 450 x 20	31.79	32.4	250 x 200 x 15	5.89	6.00
500 x 500 x 20	39.25	40	300 x 200 x 15	7.07	7.20
550 x 550 x 20	47.49	48.4	350 x 200 x 15	8.24	8.40
600 x 600 x 20	56.52	57.6	350 x 200 x 20	10.99	11.20
650 x 650 x 20	66.33	67.6	450 x 200 x 20	14.13	14.40
700 x 700 x 20	76.93	78.4	550 x 200 x 20	17.27	17.60

TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-008-(LENGTH)-(WIDTH)-(THICKNESS)-(CS)	CS	350°c	-20°c
T-PL-008-(LENGTH)-(WIDTH)-(THICKNESS)-(LCS)	LCS	350°c	-46°c
T-PL-008-(LENGTH)-(WIDTH)-(THICKNESS)-(SS)	SS	350°c	-196°c (-105°c) (Refer Note)
T-PL-008-(LENGTH)-(WIDTH)-(THICKNESS)-(AL)	AL	150 °c	(-) 253 °c
T-PL-008-(LENGTH)-(WIDTH)-(THICKNESS)-(Ti)	Ti	150°c	(-) 196 °c
T-PL-008-(LENGTH)-(WIDTH)-(THICKNESS)-(LD)	LD	350°c	(-) 46 °c
T-PL-008-(LENGTH)-(WIDTH)-(THICKNESS)-(Du)	Du	100°c (Operating)	(-) 46 °c
T-PL-008-(LENGTH)-(WIDTH)-(THICKNESS)-(SDu)	S.Du.	100°c (Operating)	(-) 46 °c

NOTE
 Impact Test Reqd. for the below min design temp.
 For Matl. Code SS (-)196° c , For Matl. Code LCS , LD , Du , SDu (-)46°c

13.9 SPECIAL SQUARE /RECTANGULAR PLATE WITH 4 BOLT HOLES
PL-199


PLACEMENT OF BOLT-HOLES		
BOLT	DIA.	"DIST."
M10	Ø11	20mm
M12	Ø13	25mm
M16	Ø18	30mm
M20	Ø22	30mm
M24	Ø26	35mm
M30	Ø33	45mm

TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL199-(LENGTH)-(WIDTH)-(THICKNESS)-(CS)	CS	350°c	-20°c
T-PL-199-(LENGTH)-(WIDTH)-(THICKNESS)-(LCS)	LCS	350°c	-46°c
T-PL-199-(LENGTH)-(WIDTH)-(THICKNESS)-(SS)	SS	350°c	-196°c (-105°c) (Refer Note)
T-PL-199-(LENGTH)-(WIDTH)-(THICKNESS)-(AL)	AL	150 °c	(-) 253 °c
T-PL199-(LENGTH)-(WIDTH)-(THICKNESS)-(Ti)	Ti	150°c	(-) 196 °c
T-PL-199-(LENGTH)-(WIDTH)-(THICKNESS)-(LD)	LD	350°c	(-) 46 °c
T-PL-199-(LENGTH)-(WIDTH)-(THICKNESS)-(Du)	Du	100°c (Operating)	(-) 46 °c
T-PL-199-(LENGTH)-(WIDTH)-(THICKNESS)-(SDu)	S.Du.	100°c (Operating)	(-) 46 °c

Notes.

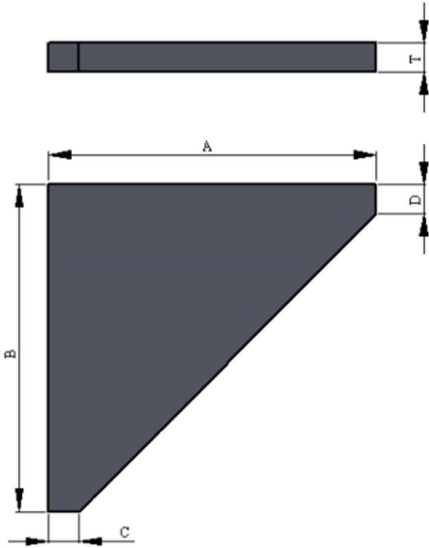
For material specification see pipe support work instruction

Example Part no. Name: PL-199-M16-200-200-15-LD - to be stamped or similar to plate. (see view)

Bolt type text only for reference to bolt holes sizes. (Bolt sets to be ordered separately.)

Impact Test Reqd. for the below min design temp.

For Matl. Code SS (-)196° c , For Matl. Code LCS , LD , Du , SDu (-)46°c

13.10 GUSSET PLATE
PL-921


STD. THICK (T)
10
15
20

PREFERRED PLATE DIMENSIONS				
A	B	C	D	T
70	70	10	10	10
90	90	10	10	10
110	110	20	20	10
140	140	20	20	10
150	100	20	20	10
150	150	20	20	10
180	180	20	20	10
200	100	20	20	10
200	200	20	20	15
250	100	20	20	15
250	250	20	20	15

TYPICAL PART NUMBER	AVAILABLE MATERIAL SHORT CODE	STD DETAIL TEMPERATURE LIMITATION	
		MAX. DESIGN TEMP	MIN. DESIGN TEMP.
T-PL-921-000A-CS#A=DIM=B=(DIM)C=(DIM)D=(DIM)T=(DIM)	CS	350°c	-20°c
T-PL-921-000A-LCS#A=DIM=B=(DIM)C=(DIM)D=(DIM)T=(DIM)	LCS	350°c	-46°c
T-PL-921-000A-SS#A=DIM=B=(DIM)C=(DIM)D=(DIM)T=(DIM)	SS	350°c	-196°c (-105°c) (Refer Note)
T-PL-921-000A-AL#A=DIM=B=(DIM)C=(DIM)D=(DIM)T=(DIM)	AL	150 °c	(-) 253 °c
T-PL-921-000A-Ti#A=DIM=B=(DIM)C=(DIM)D=(DIM)T=(DIM)	Ti	150°c	(-) 196 °c
T-PL-921-000A-LD#A=DIM=B=(DIM)C=(DIM)D=(DIM)T=(DIM)	LD	350°c	(-) 46 °c
T-PL-921-000A-Du#A=DIM=B=(DIM)C=(DIM)D=(DIM)T=(DIM)	Du	100°c (Operating)	(-) 46 °c
T-PL-921-000A-S Du#A=DIM=B=(DIM)C=(DIM)D=(DIM)T=(DIM)	S.Du.	100°c (Operating)	(-) 46 °c

NOTE
 Impact Test Reqd. for the below min design temp.
 For Matl. Code SS (-)196° c , For Matl. Code LCS , LD , Du , SDu (-)46°c