

Note to Designer: The information presented in this Standard Detail has been prepared in accordance with recognized engineering principles and is for general use. It should not be used for specific application without competent professional examination and verification of its suitability and applicability by a licensed professional engineer. Contents within the inner border line shall not be altered.

NO.	DESCRIPTION OF REVISIONS	DATE
1	Original Issue	7-12
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STEEL LIST																															
Mark	Bero	90° Dia.		96° Dia.		102° Dia.		108° Dia.		114° Dia.		120° Dia.		126° Dia.		132° Dia.		138° Dia.		144° Dia.											
		No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth	No	Size	Lgth									
a1	A	5	*5	9'-3	5	*5	9'-6	5	*5	9'-9	5	*5	10'-3	5	*5	10'-9	6	*5	11'-0	6	*5	11'-3	6	*5	11'-9	6	*5	12'-3	6	*6	12'-6
a2	A	4	*5	9'-9	5	*5	10'-0	5	*5	10'-3	5	*5	10'-9	5	*5	11'-3	5	*6	11'-6	6	*5	11'-9	6	*6	12'-3	6	*6	13'-0	6	*6	13'-3
a3	A	4	*5	10'-3	4	*5	10'-6	5	*5	10'-9	5	*5	11'-3	5	*6	12'-0	5	*6	12'-6	6	*6	13'-0	6	*6	13'-6	6	*6	14'-3	6	*7	13'-9
a4	A	4	*5	10'-6	4	*5	11'-0	5	*6	11'-3	5	*6	11'-9	5	*6	12'-6	5	*7	12'-9	5	*7	13'-0	6	*7	13'-6	6	*7	14'-3	6	*7	14'-6
a5	A	4	*5	11'-0	4	*6	11'-6	4	*6	12'-0	5	*6	12'-6	5	*7	13'-0	5	*7	13'-3	5	*7	13'-9	5	*7	14'-3	6	*7	15'-0	6	*7	15'-3
a6	A	4	*6	11'-6	4	*6	12'-0	4	*6	12'-6	4	*7	13'-0	5	*7	13'-6	5	*7	13'-9	5	*7	14'-3	5	*7	14'-9	6	*7	15'-6	6	*8	15'-9
a7	A	4	*6	12'-0	4	*6	12'-6	4	*7	13'-0	4	*7	13'-6	5	*7	14'-3	5	*7	14'-6	5	*7	15'-0	5	*8	15'-6	5	*8	16'-3	6	*8	16'-6
a8	A	3	*5	8'-3	4	*5	8'-6	4	*5	8'-9	4	*5	9'-0	4	*5	9'-6	4	*5	9'-9	5	*5	10'-0	5	*5	10'-3	5	*5	10'-9	5	*5	11'-0
a9	A	3	*5	9'-3	3	*5	9'-6	4	*5	9'-9	4	*5	10'-0	4	*5	10'-6	4	*5	10'-9	4	*5	11'-3	5	*6	11'-6	5	*6	12'-0	5	*6	12'-3
a10	A	3	*5	10'-3	3	*5	10'-6	3	*6	10'-9	4	*6	11'-3	4	*6	11'-9	4	*6	12'-0	4	*6	12'-3	4	*6	12'-9	5	*7	13'-3	5	*7	13'-9
a11	A	3	*5	11'-0	3	*6	11'-6	3	*6	12'-0	3	*6	12'-3	4	*7	12'-9	4	*7	13'-0	4	*7	13'-6	4	*7	14'-0	4	*7	14'-9	5	*8	15'-3
a12	A	3	*6	12'-0	3	*6	12'-6	3	*6	13'-0	3	*7	13'-6	3	*7	14'-0	4	*7	14'-3	4	*7	14'-9	4	*8	15'-3	4	*8	16'-0	4	*8	16'-6
b1	str	2	*4	28'-0	2	*4	29'-6	2	*4	31'-0	2	*4	32'-6	2	*4	34'-0	2	*4	35'-6	2	*4	37'-0	2	*4	38'-6	2	*4	40'-0	2	*4	41'-6
b2	str	8	*4	28'-0	8	*4	29'-6	8	*4	31'-0	10	*4	32'-6	10	*4	34'-0	10	*4	35'-6	10	*4	37'-0	12	*4	38'-6	12	*4	40'-0	12	*4	41'-6
b3	str	2	*4	21'-0	2	*4	27'-0	2	*4	29'-0	2	*4	25'-0	2	*4	25'-0	2	*4	28'-9	2	*4	33'-9	2	*4	26'-3	2	*4	30'-3	2	*4	34'-0
b4	str	2	*4	7'-6	2	*4	13'-6	2	*4	15'-9	2	*4	6'-0	2	*4	12'-0	2	*4	15'-9	2	*4	20'-6	2	*4	11'-0	2	*4	16'-6	2	*4	20'-0
b5	str							2	*4	2'-6						2	*4	3'-0	2	*4	7'-6				2	*4	3'-0	2	*4	6'-3	
b6	str																														
b7	str	2	*4	14'-6	2	*4	15'-6	2	*4	16'-6	2	*4	17'-6	2	*4	18'-6	2	*4	19'-6	2	*4	20'-6	2	*4	21'-6	2	*4	22'-9	2	*4	23'-9
b8	str	8	*4	14'-0	8	*4	15'-0	8	*4	16'-0	8	*4	17'-0	8	*4	18'-0	8	*4	19'-0	10	*4	20'-0	10	*4	21'-0	10	*4	22'-0	10	*4	23'-0
b9	str	2	*4	8'-9	2	*4	10'-6	2	*4	12'-3	2	*4	14'-0	2	*4	16'-3	2	*4	18'-3	2	*4	14'-3	2	*4	16'-6	2	*4	18'-3	2	*4	20'-3
b10	str	2	*4	3'-6	2	*4	5'-3	2	*4	7'-3	2	*4	8'-6	2	*4	10'-9	2	*4	12'-9	2	*4	8'-9	2	*4	10'-9	2	*4	12'-9	2	*4	14'-9
b11	str							2	*4	2'-0	2	*4	3'-3	2	*4	5'-3	2	*4	7'-3	2	*4	3'-3	2	*4	5'-3	2	*4	7'-6	2	*4	9'-3
b12	str															2	*4	1'-9							2	*4	2'-0	2	*4	3'-6	
c	str	4	*4	10'-6	4	*4	11'-0	4	*4	11'-6	4	*4	12'-0	4	*4	12'-6	4	*4	13'-0	4	*4	13'-6	4	*4	14'-0	4	*4	14'-6	4	*4	15'-0
d	A	6	*6	12'-3	6	*6	12'-9	6	*7	13'-3	6	*7	13'-9	6	*7	14'-6	6	*7	15'-0	6	*8	16'-0	6	*8	16'-6	6	*8	17'-0			
e1	C	4	*5	4'-0	5	*5	4'-0	5	*5	4'-3	5	*5	4'-6	5	*5	4'-6	6	*5	4'-9	6	*5	5'-0	6	*5	5'-0	6	*6	5'-3	6	*6	5'-6
e2	C	4	*5	4'-3	5	*5	4'-3	5	*5	4'-6	5	*5	4'-9	5	*5	5'-0	5	*5	5'-3	6	*6	5'-6	6	*6	5'-6	6	*6	5'-9	6	*6	6'-0
e3	C	4	*5	4'-6	4	*5	4'-9	5	*5	5'-0	5	*5	5'-3	5	*5	5'-6	5	*6	5'-9	6	*6	6'-0	6	*6	6'-0	6	*6	6'-3	6	*7	7'-3
e4	C	4	*5	5'-0	4	*5	5'-3	4	*5	5'-6	5	*5	5'-6	5	*6	5'-9	5	*6	6'-0	5	*6	6'-0	5	*7	7'-3	6	*7	7'-3	6	*7	7'-9
e5	C	4	*5	5'-3	4	*5	5'-6	4	*5	5'-9	5	*6	6'-0	5	*6	6'-3	5	*6	6'-6	5	*7	7'-9	5	*7	7'-9	6	*7	8'-3	6	*8	8'-9
e6	C	4	*5	5'-6	4	*5	5'-9	4	*6	6'-0	4	*6	6'-3	5	*7	7'-6	5	*7	7'-9	5	*7	8'-0	5	*7	8'-3	5	*8	9'-0	6	*8	9'-3
e7	C	4	*5	5'-9	4	*6	6'-3	4	*6	6'-6	4	*7	7'-6	4	*7	8'-0	5	*7	8'-3	5	*7	8'-6	5	*8	9'-0	5	*8	9'-6	6	*8	9'-9
e8	C	2	*5	6'-0	2	*6	6'-6	2	*6	6'-9	2	*7	8'-0	2	*7	8'-3	3	*7	8'-6	3	*7	8'-9	3	*8	9'-6	3	*8	9'-9	3	*8	10'-0
e9	C	12	*5	6'-0	13	*6	6'-6	13	*6	6'-9	14	*7	8'-0	14	*7	8'-3	15	*7	8'-6	15	*7	8'-9	16	*8	9'-6	16	*8	9'-9	17	*8	10'-0
e10	C	5	*5	6'-0	5	*6	6'-6	5	*6	6'-9	6	*7	8'-0	6	*7	8'-3	6	*7	8'-6	6	*7	8'-9	7	*8	9'-6	7	*8	9'-9	7	*8	10'-0
e11	C	3	*5	5'-9	3	*6	6'-3	3	*6	6'-6	3	*6	6'-9	3	*7	8'-0	3	*7	8'-3	4	*7	8'-6	4	*7	9'-0	4	*7	9'-3	4	*7	9'-6
e12	C	3	*5	5'-3	3	*5	5'-9	3	*5	6'-0	3	*6	6'-3	4	*6	6'-6	4	*6	6'-9	4	*7	7'-9	4	*7	8'-3	4	*7	8'-6	4	*7	8'-9
e13	C	3	*5	4'-9	3	*5	5'-0	3	*5	5'-3	4	*5	5'-9	4	*6	6'-0	4	*6	6'-3	4	*6	6'-6	4	*6	6'-9	4	*7	7'-9	5	*7	8'-0
e14	C	3	*5	4'-6	3	*5	4'-6	4	*5	4'-9	4	*5	5'-0	4	*5	5'-3	4	*5	5'-6	4	*5	5'-9	4	*6	6'-0	5	*6	6'-0	5	*6	6'-3
e15	C	3	*5	4'-0	4	*5	4'-0	4	*5	4'-3	4	*5	4'-6	4	*5	4'-6	4	*5	4'-9	4	*5	5'-0	5	*5	5'-0	5	*5	5'-3	5	*5	5'-6
f1	str	5	*4	7'-3	5	*4	7'-9	6	*4	8'-0	6	*4	8'-3	6	*4	8'-9	6	*4	9'-0	7	*4	9'-3	7	*4	9'-9	7	*4	10'-0	7	*4	10'-3
f2	str	5	*4	8'-3	5	*4	8'-6	5	*4	9'-0	6	*4	9'-3	6	*4	9'-6	6	*4	10'-0	6	*4	10'-3	7	*4	10'-9	7	*4	11'-3	7	*4	11'-6
f3	str	5	*4	9'-0	5	*4	9'-6	5	*4	9'-9	5	*4	10'-3	6	*4	10'-6	6	*4	11'-0	6	*4	11'-6	6	*4	12'-0	7	*4	12'-3	7	*4	12'-9
f4	str	4	*4	10'-0	5	*4	10'-3	5	*4	10'-9	5	*4	11'-3	5	*4	11'-6	6	*4	12'-0	6	*4	12'-6	6	*4	13'-0	6	*4	13'-6	7	*4	14'-0
f5	str	3	*4	6'-6	3	*4	6'-9	3	*4	7'-0	3	*4	7'-3	3	*4	7'-6	4	*4	7'-9	4	*4	8'-0	4	*4	8'-3	4	*4	8'-6	4	*4	8'-9
f6	str	3	*4	7'-9	3	*4	8'-0	3	*4	8'-3	3	*4	8'-6	3	*4	8'-9	3	*4	9'-0	4	*4	9'-6	4	*4	9'-9	4	*4	10'-3	4	*4	11'-6
f7	str	2	*4	8'-9	2	*4	9'-0	3	*4	9'-6	3	*4	9'-9	3	*4	10'-3	3	*4	10'-6	3	*4	11'-0	3	*4	11'-6	4	*4	11'-9	4	*4	12'-0
f8	str	2	*4	10'-0	2	*4	10'-3	2	*4	10'-9	3	*4	11'-0	3	*4	11'-6	3	*4	11'-9	3	*4	12'-6	3	*4	13'-0	3	*4	13'-6	4	*4	13'-9
g	str	2	*4	11'-6	2	*4	12'-3	2	*4	12'-9	2	*4	13'-6	2	*4	14'-3	2	*4	15'-0	2	*4	15'-9	2	*4	16'-3	2	*4	17'-0	2	*4	17'-9
m1	str	4	*4	29'-9	4	*4	31'-3	4	*4	33'-0	5	*4	34'-6	5	*4	36'-0	5	*4	37'-9	5	*4	39'-3	6	*4	40'-9	6	*4	42'-6	6	*4	44'-0
m2	str	1	*4	29'-9	1	*4	31'-3	1	*4	33'-0	1	*4	34'-6	1	*4	36'-0	1	*4	37'-9	1	*4	39'-3	1	*4	40'-9	1	*4	42'-6	1	*4	44'-0
m3	str	4	*4	20'-0	4	*4	21'-3	4	*4	22'-6	5	*4	24'-0	5	*4	25'-3	5	*4	26'-6	5	*4	27'-9	6	*4	29'-3	6	*4	30'-6	6	*4	31'-9
m4	str	1	*4	20'-0	1	*4	21'-3	1	*4	22'-6	1	*4	24'-0	1	*4	25'-3	1														