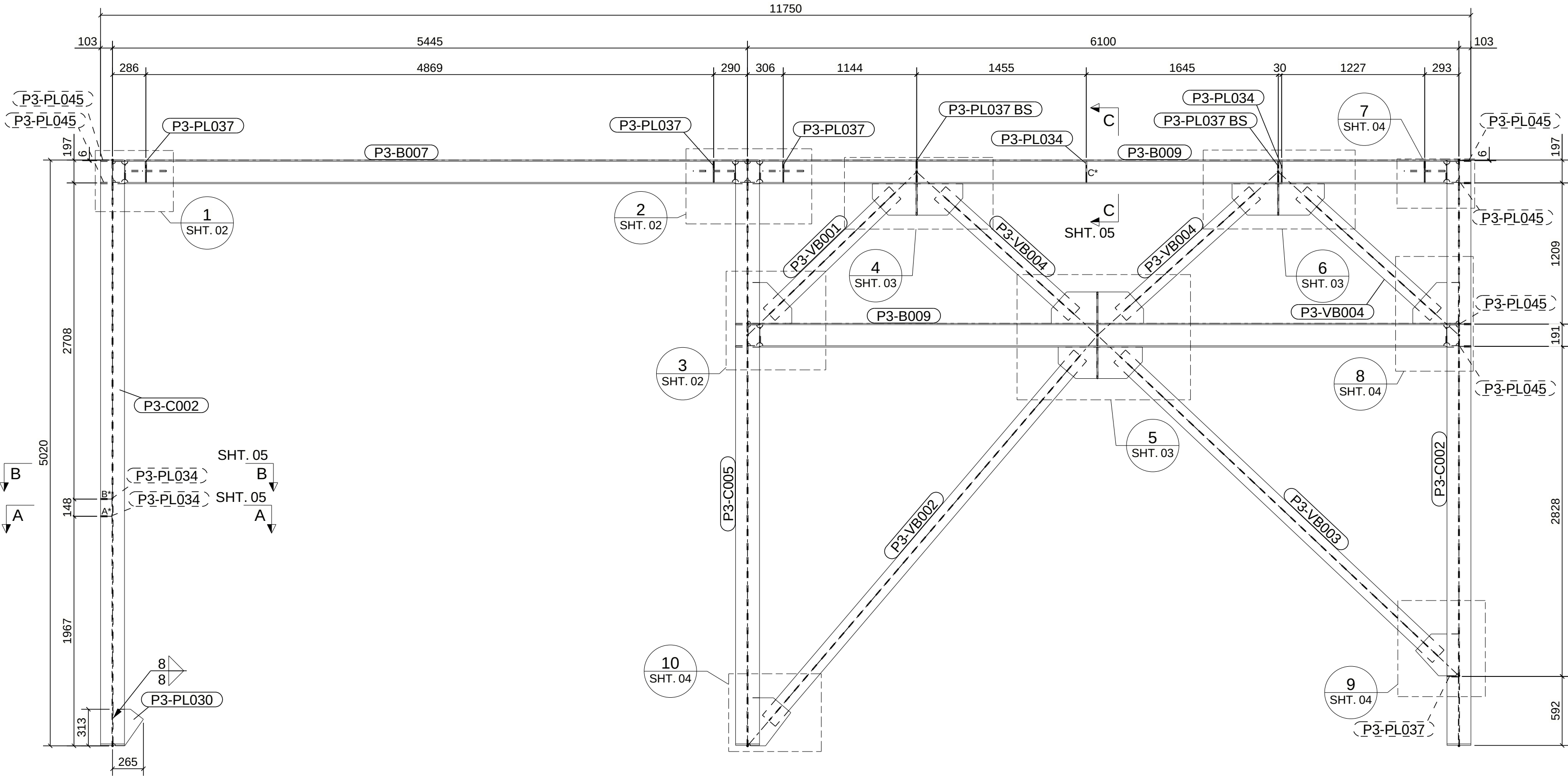


MATERIAL LIST FOR ONE ASSEMBLY MK'D - PAU021-P3-GR2X1-FR1

MARK	DESCRIPTION	LENGTH (mm)	THICKNESS (mm)		QTY	MATERIAL	SAP CODE	UNIT WT (Kg/m)/(kg/m2)	TOTAL WT (Kg)	SURFACE AREA (m²)	WELD CAT	CONST. CAT	WT CAT	REMARK
			WIDTH/O.D/Ft	Wt/Pt.										
P3-B007	200UC46	5233	11	7	1	GRADE 350	SB1153200UC462ZZZI	46.20	241.75	6.30	SP	CC2	MS	
P3-B009	200UC46	5888	11	7	2	GRADE 350	SB1153200UC462ZZZI	46.20	544.02	14.18	SP	CC2	MS	
P3-C002	200UC60	5020	14	9	2	GRADE 350	SB1153200UC595ZZZI	59.50	597.41	12.28	SP	CC2	MS	
P3-C005	200UC60	5020	14	9	1	GRADE 350	SB1153200UC595ZZZI	59.50	298.70	6.14	SP	CC2	MS	
P3-PL030	PL12*260	314	260	12	1	GRADE 350	SP1131012.00ZZZZZI	94.20	5.49	0.13	SP	CC2	LS	
P3-PL034	PL10*98	181	98	10	4	GRADE 350	SP1131010.00ZZZZZI	78.50	5.55	0.16	SP	CC2	LS	
P3-PL035	PL16*367	412	367	16	1	GRADE 350	SP1131016.00ZZZZZI	125.60	13.85	0.24	SP	CC2	LS	
P3-PL036	PL16*359	368	359	16	1	GRADE 350	SP1131016.00ZZZZZI	125.60	12.63	0.22	SP	CC2	LS	
P3-PL037	PL10*98	181	98	10	9	GRADE 350	SP1131010.00ZZZZZI	78.50	12.48	0.37	SP	CC2	LS	
P3-PL038	PL16*269	791	269	16	2	GRADE 350	SP1131016.00ZZZZZI	125.60	48.72	0.84	SP	CC2	LS	
P3-PL039	PL16*270	722	270	16	1	GRADE 350	SP1131016.00ZZZZZI	125.60	22.04	0.38	SP	CC2	LS	
P3-PL040	PL10*98	181	98	10	2	GRADE 350	SP1131010.00ZZZZZI	78.50	2.77	0.08	SP	CC2	LS	
P3-PL041	PL10*93	270	93	10	8	GRADE 350	SP1131010.00ZZZZZI	78.50	15.51	0.45	SP	CC2	LS	
P3-PL042	PL16*270	775	270	16	1	GRADE 350	SP1131016.00ZZZZZI	125.60	23.84	0.41	SP	CC2	LS	
P3-PL043	PL16*350	375	350	16	1	GRADE 350	SP1131016.00ZZZZZI	125.60	13.47	0.24	SP	CC2	LS	
P3-PL044	PL16*350	391	350	16	1	GRADE 350	SP1131016.00ZZZZZI	125.60	14.25	0.25	SP	CC2	LS	
P3-PL045	PL12*98	182	98	12	20	GRADE 350	SP1131012.00ZZZZZI	94.20	33.36	0.84	SP	CC2	LS	
P3-PL046	PL12*98	179	98	12	6	GRADE 350	SP1131012.00ZZZZZI	94.20	9.01	0.23	SP	CC2	LS	
P3-PL056	PL12*350	364	350	12	1	GRADE 350	SP1131012.00ZZZZZI	94.20	9.32	0.21	SP	CC2	LS	
P3-PL057	PL10*77	98	77	10	4	GRADE 350	SP1131010.00ZZZZZI	78.50	2.26	0.07	SP	CC2	LS	
P3-PL060	PL12*313	350	313	12	1	GRADE 350	SP1131012.00ZZZZZI	94.20	7.76	0.18	SP	CC2	LS	
P3-PL061	PL12*350	382	350	12	1	GRADE 350	SP1131012.00ZZZZZI	94.20	9.73	0.22	SP	CC2	LS	
P3-PL064	PL12*346	350	346	12	1	GRADE 350	SP1131012.00ZZZZZI	94.20	8.45	0.19	SP	CC2	LS	
P3-VB001	TEE146X127X16	1500	9	6	1	GRADE 350	SB1153250UB314ZZZI	15.66	23.49	0.82	SP	CC2	LS	CUT FROM 250 UB 31.4
P3-VB002	TEE146X127X16	4113	9	6	1	GRADE 350	SB1153250UB314ZZZI	15.66	64.41	2.24	SP	CC2	LS	CUT FROM 250 UB 31.4
P3-VB003	TEE146X127X16	3752	9	6	1	GRADE 350	SB1153250UB314ZZZI	15.66	58.75	2.04	SP	CC2	LS	CUT FROM 250 UB 31.4
P3-VB004	TEE146X127X16	1549	9	6	3	GRADE 350	SB1153250UB314ZZZI	15.66	72.80	2.54	SP	CC2	LS	CUT FROM 250 UB 31.4
TOTAL FOR ONE ASSEMBLY									2171.80	52.25				
TOTAL FOR 1 ASSEMBLY									2171.80	52.25				



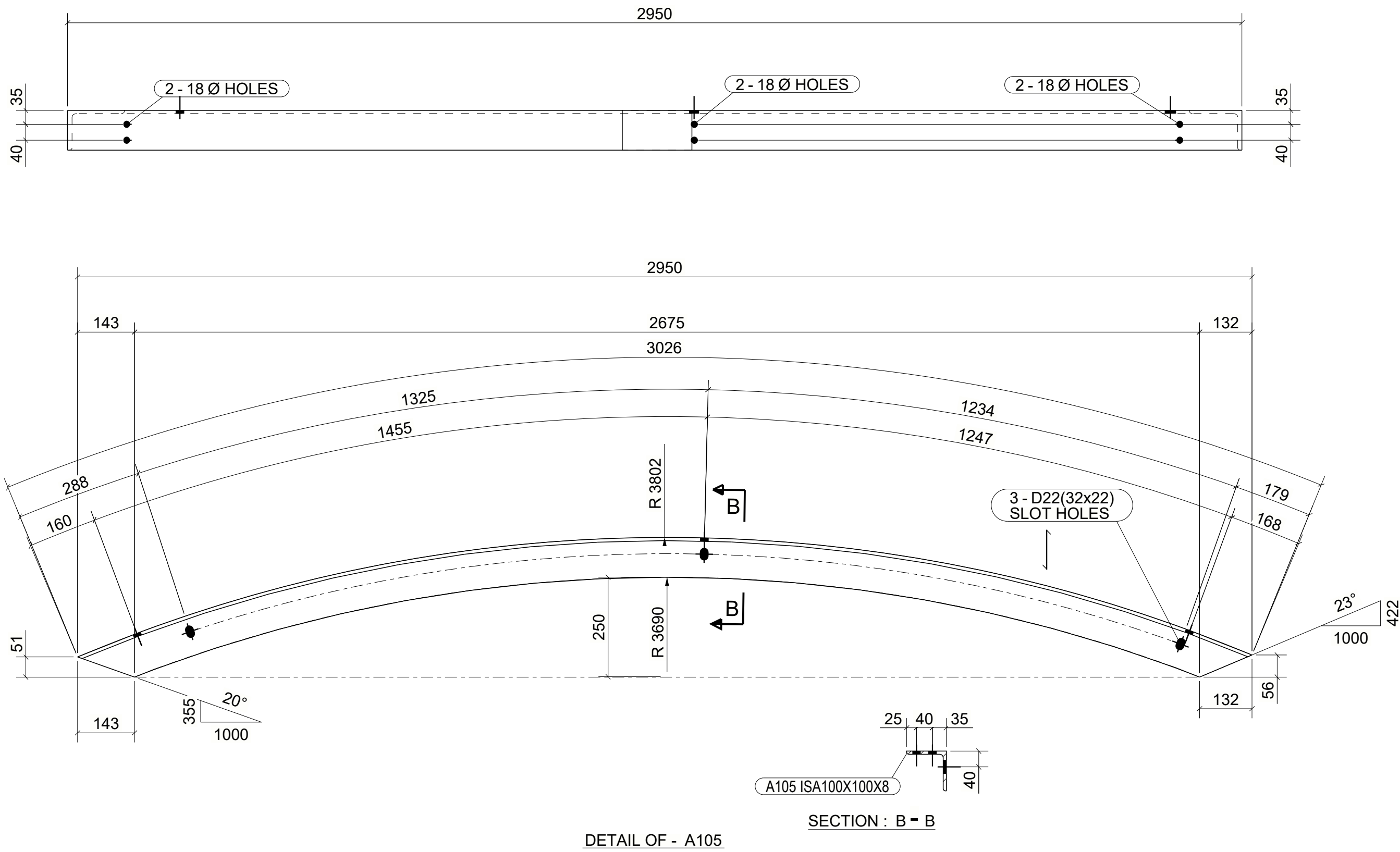
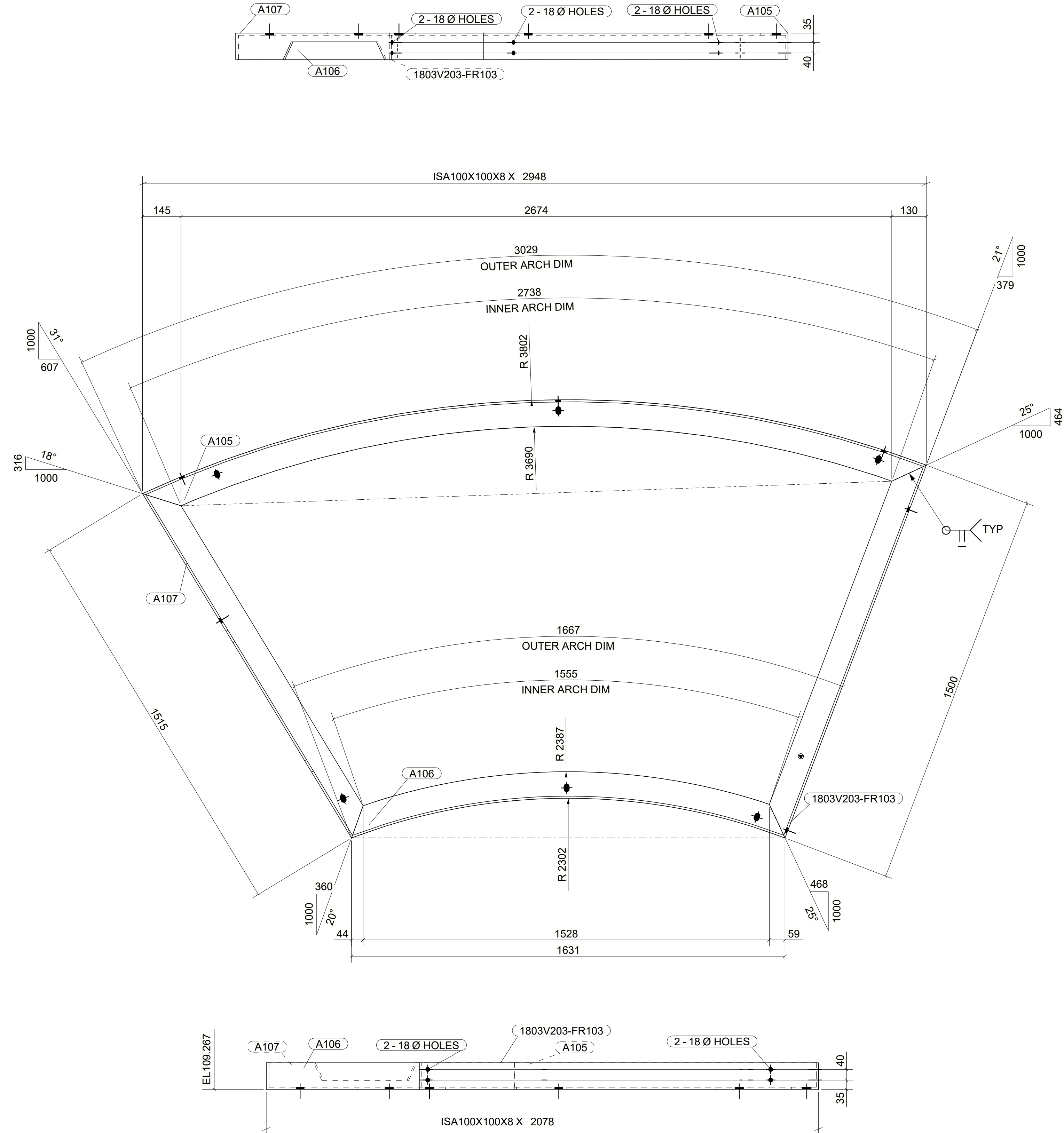
ASSEMBLY DETAIL FOR PAU021-P3-GR2X1-FR1
SCALE 1:30

MARK	DESCRIPTION	LENGTH (mm)	THICKNESS (mm)		QTY	MATERIAL	SAP CODE	UNIT WT (Kg/m)/(kg/m2)	TOTAL WT (Kg)	SURFACE AREA (m²)	WELD CAT	CONST. CAT	WT CAT	REMARK
			WIDTH/O.D/Ft	Wt/Pt.										
P-B017	460UB67	4170	13	9	1	GRADE 350	SB1153460UB67.1ZZI	67.10	279.84	6.89	SP	CC2	MS	
P-C002	UC305X305X198	1462	31	19	1	GRADE 350	SB1152UC305305198I	198.10	289.67	2.83	SP	CC2	EHS	
P-C011	UC305X305X198	1021	31	19	1	GRADE 350	SB1152UC305305198I	198.10	202.22	1.96	SP	CC2	EHS	
P-C014	UC305X305X198	1021	31	19	1	GRADE 350	SB1152UC305305198I	198.10	202.22	1.96	SP	CC2	EHS	
P-C018	UC305X305X198	1462	31	19	1	GRADE 350	SB1152UC305305198I	198.10	289.67	2.83	SP	CC2	EHS	
P-PL041	PL10*90.8	429	91	10	10	GRADE 350	SP1131010.00ZZZZZI	78.50	30.49	0.88	SP	CC2	LS	
P-PL142	PL8*179	298	179	8	1	GRADE 350	SP1131008.00ZZZZZI	62.80	3.27	0.11	SP	CC2	LS	
P-PL143	PL12*147.7	277	148	12	3	GRADE 350	SP1131012.00ZZZZZI	94.20	11.54	0.28	SP	CC2	LS	
P-PL154	PL12*128.6	148	129	12	2	GRADE 350	SP1131012.00ZZZZZI	94.20	3.51	0.09	SP	CC2	LS	
P-PL196	PL16*288.3	402	288	16	2	GRADE 350	SP1131016.00ZZZZZI	125.60	18.83	0.34	SP	CC2	LS	
P-PL207	PL16*431.5	562	432	16	1	GRADE 350	SP1131016.00ZZZZZI	125.60	22.56	0.39	SP	CC2	LS	
P-PL209	PL16*431.5	562	432	16	1	GRADE 350	SP1131016.00ZZZZZI	125.60	22.56	0.39	SP	CC2	LS	
P-PL302	PL10*146.8	277	147	10	1	GRADE 350	SP1131010.00ZZZZZI	78.50	3.19	0.09	SP	CC2	LS	
P-PL312	PL8*179	298	179	8	1	GRADE 350	SP1131008.00ZZZZZI	62.80	3.27	0.11	SP	CC2	LS	
P-PL313	PL12*277.1	298	277	12	2	GRADE 350	SP1131012.00ZZZZZI	94.20	14.29	0.33	SP	CC2	LS	
P-PL314	PL12*147.7	277	148	12	3	GRADE 350	SP1131012.00ZZZZZI	94.20	11.54	0.28	SP	CC2	LS	
P-PL558	PL10*90.8	429	91	10	4	GRADE 350	SP1131010.00ZZZZZI	78.50	12.20	0.35	SP	CC2	LS	
P-PL573	PL40*315	457	315	40	2	GRADE 350	SP1131040.00ZZZZZE	314.00	90.41	0.70	SP	CC2	LS	
P-PL576	PL10*147.4	277	147	10	5	GRADE 350	SP1131010.00ZZZZZI	78.50	16.00	0.45	SP	CC2	LS	
P-PL578	PL12*185	190	185	12	2	GRADE 350	SP1131012.00ZZZZZI	94.20	6.62	0.16	SP	CC2	LS	
P-PL579	PL12*277.1	298	277	12	2	GRADE 350	SP1131012.00ZZZZZI	94.20	14.29	0.33	SP	CC2	LS	
P-PL581	PL20*277.1	448	277	20	2	GRADE 350	SP1131020.00ZZZZZI	157.00	34.87	0.50	SP	CC2	LS	
P-PL582	PL20*414	448	414	20	2	GRADE 350	SP1131020.00ZZZZZI	157.00	57.81	0.80	SP	CC2	LS	
P-PL584	PL12*147.7	220	148	12	2	GRADE 350	SP1131012.00ZZZZZI	94.20	5.83	0.14	SP	CC2	LS	
P-PL585	PL20*147.7	277	148	20	2	GRADE 350	SP1131020.00ZZZZZI	157.00	12.82	0.20	SP	CC2	LS	
P-PL586	PL12*128.5	148	129	12	2	GRADE 350	SP1131012.00ZZZZZI	94.20	3.51	0.09	SP	CC2	LS	
P-PL587	PL20*276.5	452	277	20	2	GRADE 350	SP1131020.00ZZZZZI	157.00	35.12	0.50	SP	CC2	LS	
P-PL588	PL20*147	276	147	20	2	GRADE 350	SP1131020.00ZZZZZI	157.00	12.73	0.20	SP	CC2	LS	
P-PL591	PL10*195.5													



BOLT LIST FOR ONE ASSEMBLY			
Type	Size	Length	Qty
8.8XOX	M20	45	6

MATERIAL LIST FOR ONE ASSEMBLY MKD 1803V203-FR103 1 NOS.Required						
MARK	DESCRIPTION	GRADE	LENGTH	QTY.	UNIT WT (Kg)	TOTAL WT(Kg)
1803V203-FR103	ISA100X100X8	E250	1500	1	18.13	18.13
A105	ISA100X100X8	E250	2950	1	35.66	35.66
A106	ISA100X100X8	E250	1667	1	20.15	20.15
A107	ISA100X100X8	E250	1515	1	18.32	18.32
TOTAL FOR ONE ASSEMBLY IN Kg					=	92.27
TOTAL FOR 1 ASSEMBLIES IN Kg					=	92.27



FINISH NOTES:-
P – INDICATES ASSEMBLY TO BE FULLY PAINTED.
Y – INDICATES ASSEMBLY TO BE FULLY GALVANIZED.
F – INDICATES COMPLETELY ENCASED TYPE FIRE PROOFING.
H – INDICATES PARTIALLY ENCASED FIREPROOFING THAT IS BEAM WITH ONLY TOP OF TOP FLANGE PAINTED.
M – INDICATES PARTIAL FIREPROOFING FOR MARKED DIMENSION/ EXTEND AND REMAINING LENGTH TO BE FULLY PAINTED.
Z – INDICATES ASSEMBLY TO BE GALVANIZED AND PAINTED.
O.P – INDICATES ONLY PRIMER.

- NOTES:-
1. ALL DIMENSIONS ARE IN MILLIMETRES & LEVELS ARE IN METRES.
 2. THIS DRAWING SHOULD NOT BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
 3. USE E250 GRADE FOR BASE PLATE AND BASE PLATE RELATED STIFFNERS. USE E250 GRADE FOR STRUCTURAL MEMBERS AND REMAINS ALL OTHER PLATES. U.O.S.
 4. ☛ DENOTES SHOP MARK SHALL BE PROVIDED BY THE FABRICATOR ON FLANGE OF MEMBER/FACE OF PLATES ON EACH ASSEMBLY AS SHOWN. ON SHOP DETAIL DRAWINGS SAME IS TO BE REFERRED FOR ORIENTATION, DURING ERECTION OF THE ASSEMBLY.
 5. USE 8.8 GRADE BOLTS EACH BOLT WILL HAVE 2 WASHERS & 1 NUT. ALL STRUCTURAL BOLTS SHALL BE HOT DIP GALVANIZED.
 6. ALL SHOP WELDS ARE 6 MM (FILLET) CONTINUOUS WELDED ALLAROUND & SITE WELDS SHALL BE 8MM (FILLET) UNO.
 7. FABRICATION SHALL BE DONE AS PER SPECIFICATION, CONTRACT TERMS & CONDITIONS.
 8. FIRE PROOFING AROUND BOLTED CONNECTION SHALL BE DONE AT SITE AFTER ERECTION OF BOLTED CONNECTION.
 9. PROVIDE FULL THICKNESS BEVEL WELD WHERE FILLET WELD ACCESS NOT AVAILABLE AND ALL BEVEL WELDS ARE FULL THICK AND CONVEX TYPE WHERE PART EXTENDED OTHERWISE FLUSH.
 10. PROVIDE SUITABLE BEVEL WELD ACCESS HOLES AT BOTH SIDES OF BEVEL EDGES.



BILL OF MATERIAL					429	TS540X4.0	3558	2	I54923 Y37355		
MATERIAL LIST FOR ASSEMBLY MCK 1 7ER-B					ASSY QTY 1	429	TS541X5.0.4	1958	2	I54923 Y37355	
PART NO.	ITEM	SIZE	QTY	UNIT	QTY	MATERIAL	429	TS572X4.0	2654	1	I54923 Y37355
68	TS580X0.6	2867	1	I54923 Y37355	726	PL#388	799	1	I54923 Y37355		
						PL#P30					
1042	PL#P90	184	1	I51730 I52062 I536080	1740	PL#P30	284	1	I51730 I52062 I536080		
1120	PL#P30	170	1	I51730 I52062 I536080	1740	PL#P30	411	2	I51730 I52062 I536080		
1269	TS580X0.6	2867	1	I54923 Y37355	1775	PL#183	232	1	I51730 I52062 I536080		
1606	TS550X4.5	1694	2	I54923 Y37355	1980	PL#100	168	2	I51730 I52062 I536080		
	TS591.5X4.5	489	2	I54923 Y37355	2025	PL#100	132	2	I51730 I52062 I536080		
2040	PL#P50	200	2	I51730 I52062 I536080	2249	PL#P75	160	2	I51730 I52062 I536080		
2040	PL#P50	200	2	I51730 I52062 I536080	2249	PL#P75	160	2	I51730 I52062 I536080		
2112	PL#P100	200	2	I51730 I52062 I536080	2263	PL#P25	113	2	I51730 I52062 I536080		
2213	PL#P96	100	2	I51730 I52062 I536080	2268	PL#P44	182	1	I51730 I52062 I536080		
2428	PL#P25	180	2	I51730 I52062 I536080	2275	PL#P50	52	4	I51730 I52062 I536080		
2428	PL#P50	133	4	I51730 I52062 I536080	2315	PL#P50	135	4	I51730 I52062 I536080		
2510	PL#P248	500	2	I51730 I52062 I536080	2414	PL#P43	56	4	I51730 I52062 I536080		
2511	PL#P75	120	2	I51730 I52062 I536080	2485	PL#197X5	175	24	I51730 I52062 I536080		
2512	PL#P50	150	4	I51730 I52062 I536080	2917	PL#P100	108	8	I51730 I52062 I536080		
2919	PL#12P260	261	2	I51730 I52062 I536080							
2920	PL#P250	100	8	I51730 I52062 I536080							
2921	PL#P100	8	150	I51730 I52062 I536080							
2924	PL#107250	250	2	I51730 I52062 I536080							

- NOTES:
1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN meters.
 2.  DENOTES SHOP MARK PROVIDED BY THE FABRICATOR ON FLANGE OF MEMBER / FACE OF PLATES ON EACH ASSEMBLY AS SHOWN ON SHOP DETAIL DRAWING SAME IS TO BE REFERRED FOR ORIENTATION DURING ERECTION OF THE ASSEMBLY.
 3. DRAWING SHALL NOT BE SCALED AND ONLY DIMENSION SPECIFIED SHALL BE FOLLOWED
 4. ALL BUTT JOINT EFFICIENCY SHALL BE MORE THAN 95% OF FULL STRENGTH TO TRANSMIT FORCES TO THE JOINTS
 5. ALL PREPARATION OF BUTT WELD AND NOTCH FOR WELDING REF:DRG.NO.: 3MO081 SHI001.

SHOP FILLET WELDING DETAIL												
PART THICK LEAST OF T1 & T2												
PART THICK T1/T2	4	5	6	8	10	12	16	20	22	25	28 & ABOVE	
WELD THICK "T"	3	4	5	6	8	10	12	16	16	16	16	

ALL ITEM TO BE PAINTED WITH PART No./MEMBER MARKING
WITH PREFIX HAVING FRAME NO MARKINGS.



B



2

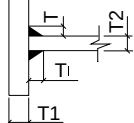


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NOTES:

1. ALL DIMENSIONS ARE IN mm AND LEVELS ARE IN meters.
2.  DENOTES SHOP MARK PROVIDED
BY THE FABRICATOR ON FLANGE OF MEMBER /
FACE OF PLATES ON EACH ASSEMBLY AS SHOWN
ON SHOP DETAIL DRAWING SAME IS TO BE REFERRED
FOR ORIENTATION DURING ERECTION OF THE ASSEMBLY.
3. DRAWING SHALL NOT BE SCALED AND ONLY DIMENSION SPECIFIED SHALL BE FOLLOWED
4. ALL BUTT JOINT EFFICIENCY SHALL BE MORE THAN 95% OF FULL STRENGTH TO TRANSMIT FORCES TO THE JOINTS
5. FOR PREPARATION OF BUTT WELD AND NOTCH FOR WELDING
REF.DRG.NO. 3M0081 SH001.

SHOP FILLET WELDING DETAIL														
PART THICK LEAST OF T1 & T2														
PART THICK T1/T2	4	5	6	8	10	12	16	20	22	25	28 & ABOVE			
WELD THICK "T"	3	4	5	6	8	10	12	16	16	16	16			



ALL ITEM TO BE PAINTED WITH PART NO./MEMOR MARKING
WITH PREFIX HAVING FRAME NO MARKINGS.