

PLAN HISTORY					
DATE	REV. NO.	DESCRIPTION	DRAWN	CHECKED	APPROVED
2022-08-24	0	8020/8021 호선 LADDER & PLATFORM (T/B ASS'Y FOR C.O.TANK) 제작 도면으로 작성함.	김 지 웅	권 승 현	황 규 성
2022-10-28	0	1. "VLD-T701P/S" 자재 UPPER LUG 수정 함, (P.02)	김 지 웅	권 승 현	황 규 성

PAINTING SPEC.						PAINT SUPPLIER		
PAINT'G SYMBOL	PAINT ITEM OR AREA	MAT'L	SHOP PRIMER	표면 처리	BRAND NAME OF PAINT AND ITS COLOR SHADE	D.F.T (μ)	REMARK	
** PAINT CODE 납기 LIST 참조할 것.								
		ITEM	IN SIDE & OUT SIDE			IN SIDE	OUT SIDE	
		ALL	FINAL	SHOP PRIMER	PRIMER			

NOTE

- 1. 본도는 LADDER & PLATFORM (T/B ASS'Y FOR C.O.TANK) 제작 도면임.
- 2. 모서리 부분은 하기와 같이 GRINDING 할 것.

- 3. 용접은 특기와 하기 표 참조하고 연속 용접 할 것.

* THE LEG LENGTH OF FILLET WELD TO BE AS FOLLOWS.

MAL'T THICKNESS	4.5	6	7~8	9~10	11~12	13	14~15	16~18	19~20
LEG LENGTH	3	4	4.5	5	5.5	6	7	7.5	9

- 4. 제작 시 DECK 상의 SHEER (\$: /)와 CAMBER (φ : /)를 필히 적용할 것.


SHEER :

CAMBER :

- 5. 한 도면에서 서로 상이부분이 있거나 제작상 문제점 발생시 필히 당부와 협의/확정 후 제작 완료할 것.
- 6. 본 도면상에 표기된 자재 중 SS400 ,단조품(SF자재) 및 용접되는 주강품(SC42)은 탄소(C) 함유량이 0.23% 이하가 되어야 함에 유의할 것 (자재 MILL SHEET 제출 요). 또한, 주강품은 용접 시 PRE-HEATING(200℃) 한 후 용접하여 용접균열을 방지할 것.
- 7. BOLT 길이는 NUT 체결후 ABT. 2-3 산이 남도록 할 것.
- 8. 이름/경고판 시공기준 : 모든 이름/경고판은 전면에 페인트나 신나에 녹지않는 비닐테이프를 부착한 상태로 뒤집어 조립하고, 그 후면에 도어 또는 밴트(VENT) 이름을 매직펜으로 기록하여 입력하고, 야드에서 정방향 설치시 나사산의 위치가 불일치 되지 않도록 구멍의 간격을 잘 유지하여 입고 할 것.
(이름, 경고판 재질: SUS316 & SUS316 SCREW BOLT)
- 9. 그리스 니뷸 : JIS B 1575 A-PT 1/8" BALL TYPE 러버캡을 씌울것(MAT'L : SUS304)
- 10. P.O.R NO. : JT2

11. TOTAL WEIGHT : 1396.7 KG/SHIP (표지 포함 12 매)

DEP'T.	SHIP NO.	SHIP TYPE
B126	8020/8021	158,000 DWT CLASS CRUDE OIL CARRIER
TEL.	부서명	도 면 명
2871	선 장 설 계 부	
승 인	황 규 성	MFG. OF LADDER & PLATFORM (T/B ASS'Y FOR C.O.TANK)
검 도	권 승 현	
작 성	김 지 웅	
HYUNDAI SAMHO HEAVY INDUSTRIES CO., LTD. SAMHO SHIPYARD, KOREA		도 면 번 호
		D11T0-B38-56BB - 001
		날 짜
		2022-08-24



製作仕様書(외주구매용)

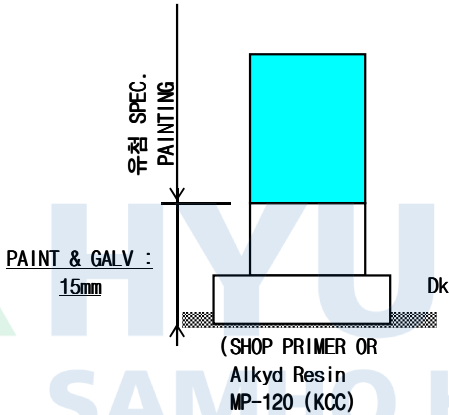
1. GALV. 두께 : HOT DIP GALV. 55~80 μ (단, BOLT/NUT류는 45~65 μ 시공)

2. GREASE NIPPLE은 FULL GREASING하고 규정된 고무 CAP을 씌울것.

3. SS400이 아닌 재질의 BOLT/NUT는 재질을 PUNCHING할것.

4. 도장 : 유첨 SPEC.에 준하되 특히 DECK에 취부되는 부위는
DECK OR WALL에서 15mm까지는 SHOP PRIMER 시공할 것.

5. HOT GALV. : DECK/WALL에서 취부되는 부위는 DECK/WALL에서 15mm까지는
Alkyd Resin MP-C1(KCC) Coating 하여 도금이 되지 않도록 할것.



6. GALV. 용 HOLE 시공할 경우는 GALV. 후 메공하고 GALV. 손상부위 수정 후
입고할 것.

7. 납품 시 P.O.R SHEET와 유첨도를 첨부할 것.

8. MAKER CERTIFICATE (특수재료는 MILL SHEET) 를 첨부할 것.

9. 무도장으로 입고되는 품목으로서 그 품목의 일부분이 도금이 되어있는 경우는
SHOT BLASTING으로부터 도금부분이 훼손되지 않도록 보호 MASKING을 하여 입고할 것.
(단, 도금표면에 다시 PAINTING하는 경우는 제외됨)

10. 의장품 자재 PALLET 고박용 번선 및 고박 ITEM에 대한 묶음 WIRE(철사)는 필히
부식 방지용 COATING WIRE를 사용하여 입고시킬 것.

11. 의장품 자재 입고시 상.하.좌.우로 움직일수 있는 항목들은 상기 10)번항에 의거하여
반드시 고박하여 입고할 것.(안전사고 사전방지)

12. 납품 시 하기와 같은 TAG를 식별하기 쉬운 위치에 적의 부착하여 입고할 것.

1) 용접선 있는 자재는 용접선 부근 50mm 이내 PAINT MARKER 마킹 적용
(설치 후 은폐 도장작업 쉽게 하기 위함)

2) 용접선 없는 자재는 자재 인식표(TAG) 또는 안티 울트라테이프에 마킹 후 부착
(자재 TAG 및 안티 울트라테이프 제거는 의장 1,2부에서 실시함)

3) 적용대상 : 강재로 제작되는 모든 철의장품

4) MARKING 방법 : SHIP NO., BLOCK NO., POR NO., MARKING(PC'S) NO.

제품품별 납기 LIST							SHIP NO.	8020/8021	01
							DWG NO.	D11T0-B38-56BB	
P.O.R NO	SEQ NO	BLOCK	STAGE	MARK NO	DESCRIPTION	PAINT CODE	Q'TY /SHIP	WEIGHT (KG/SET)	설치부서
JT2	1	D11P0	C1	VLD-T701P	VERTICAL LADDER	PT	1	24.9	
	2	D11BL(P)	BS	VLD-T702P	VERTICAL LADDER	PT	1	18.5	
	3	D11BL(P)	BS	ILD-T701P	INCLINED LADDER	PT	1	245.6	
	4	D11BL(P)	BS	PFD-T701P	PLATFORM	PT	1	254.0	
	5	D11BL(P)	BS	PFD-T702P	PLATFORM	PT	1	185.3	
	6	D11S0	C1	VLD-T701S	VERTICAL LADDER	PT	1	24.9	
	7	D11BL(S)	BS	VLD-T702S	VERTICAL LADDER	PT	1	18.5	
	8	D11BL(S)	BS	ILD-T701S	INCLINED LADDER	PT	1	245.6	
	9	D11BL(S)	BS	PFD-T701P	PLATFORM	PT	1	254.0	
	10	D11AL(S)	BS	PFD-T702P	PLATFORM	PT	1	125.4	
	11								
	12								
	13								
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	32								
	33								
	34								



DETAIL OF VERTICAL LADDER

SHIP NO.	8020 / 8021	02
DWG NO.	D11T0-B38-56BB	

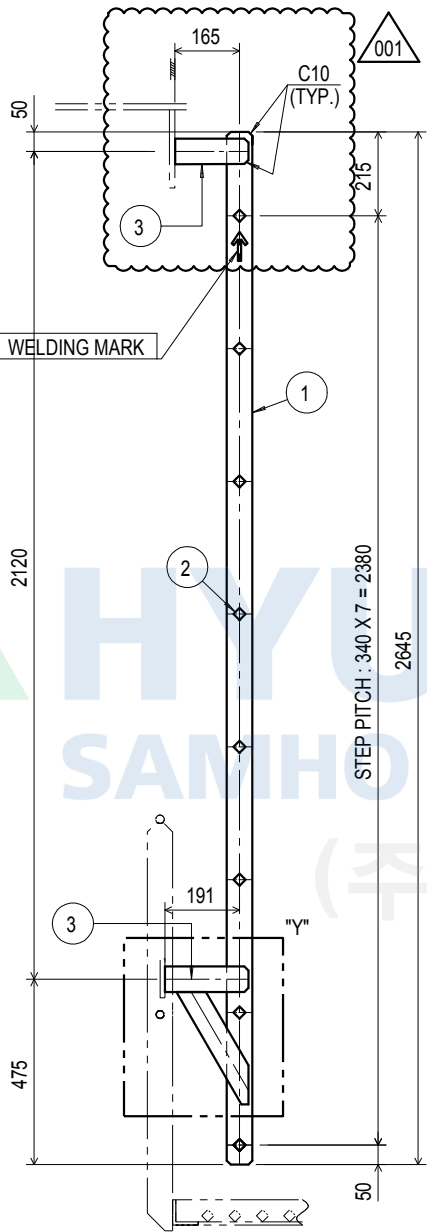
BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
D11P0	VLD-T701P	1	24.9	본도 제작
D11S0	VLD-T701S	1	24.9	대칭 제작

※ PAINT SYMBOL : PT
※ 폭 350MM
※ STEP PITCH : 340MM

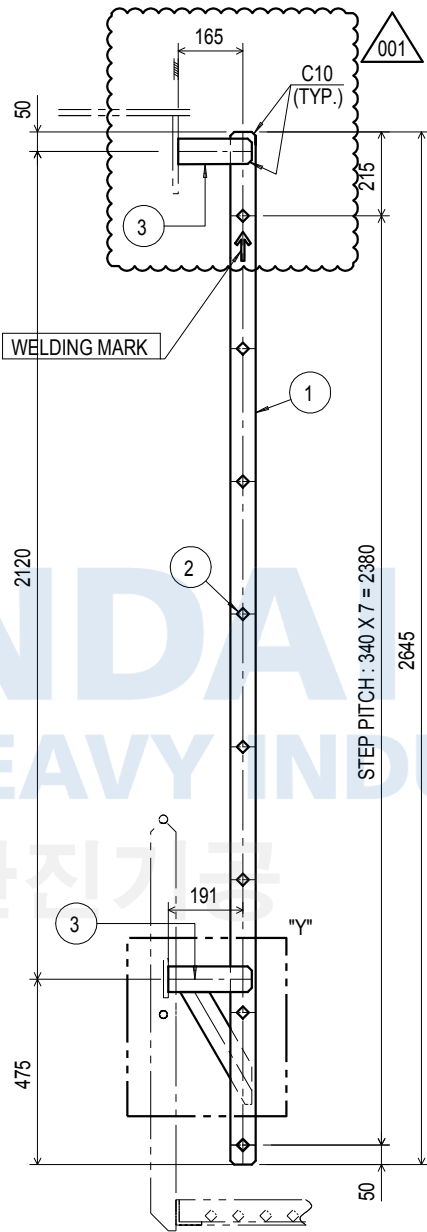
설치 BLOCK

D11P0 D11S0

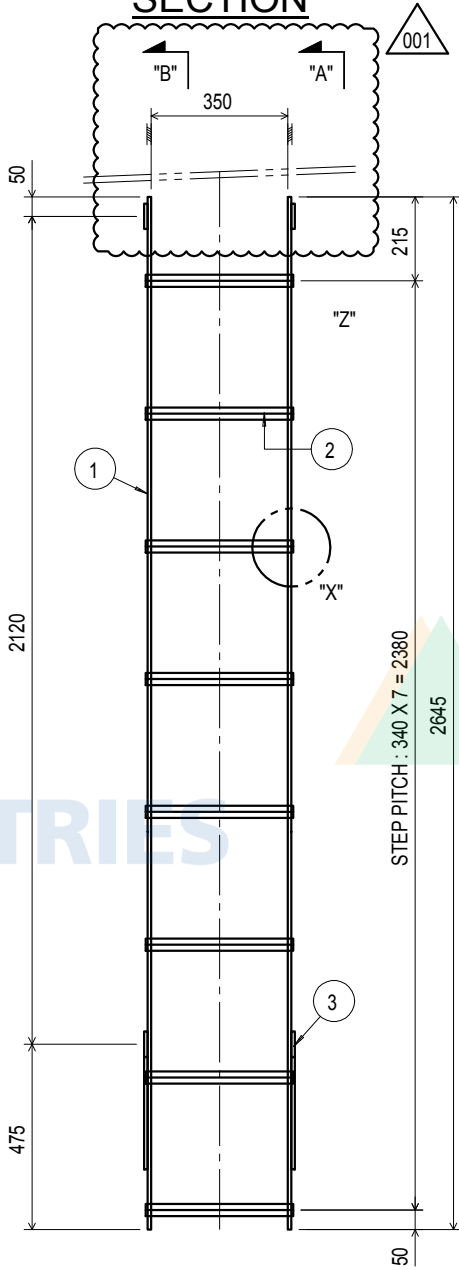
VIEW - "A"



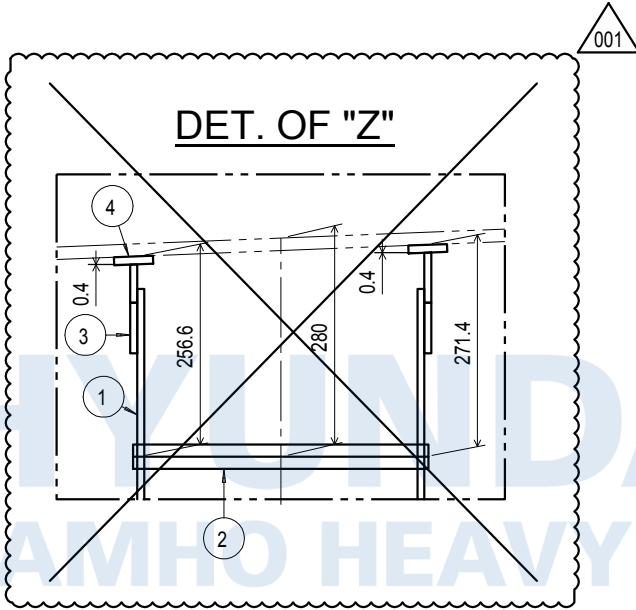
VIEW - "B"



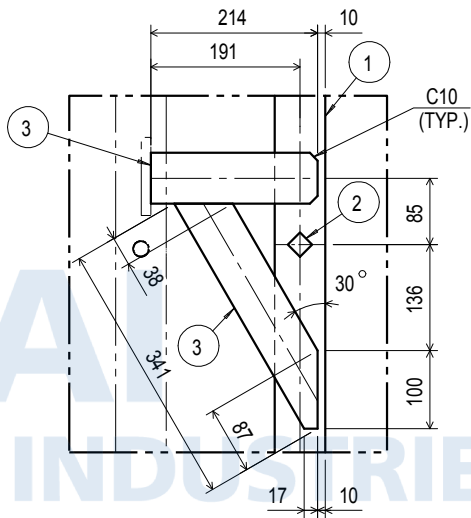
SECTION



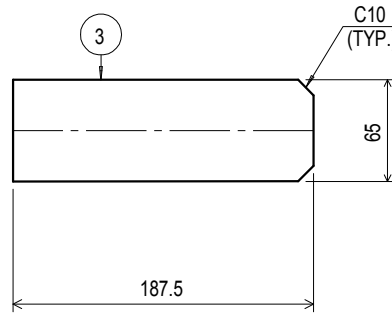
DET. OF "Z"



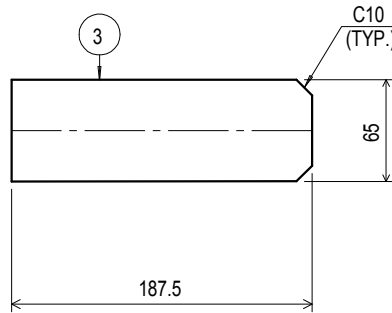
DET. OF "Y"



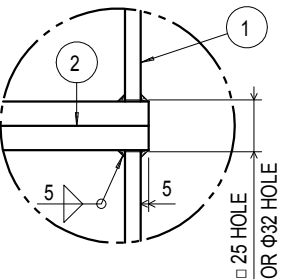
DET. OF "UPPER LUG"
(VEIW - "A")



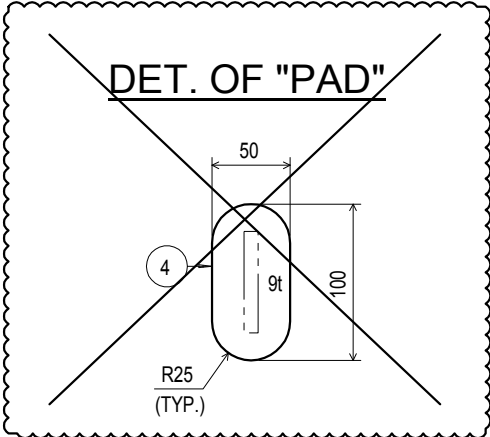
DET. OF "UPPER LUG"
(VEIW - "B")



DET. OF "X"



DET. OF "PAD"



UPPER LUG 형상 수정 함

NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK
4	PAD	10t PLATE	SS400 or SS275	2		
3	LUG	65 X 9t F.B	SS400 or SS275	6		
2	STEP	22 SQ.BAR	SS400 or SS275	8		
1	SIDE FRAME	65 X 9t F.B	SS400 or SS275	2		



DETAIL OF VERTICAL LADDER

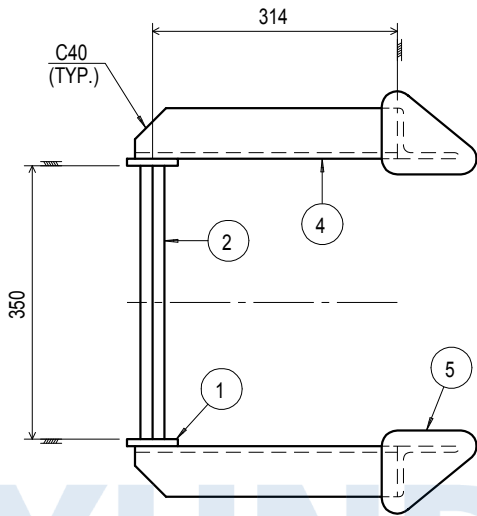
SHIP NO.	8020 / 8021	03
DWG NO.	D11T0-B38-56BB	

BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
D11BL(P)	VLD-T702P	1	18.5	본도 제작
D11BL(S)	VLD-T702S	1	18.5	대칭 제작

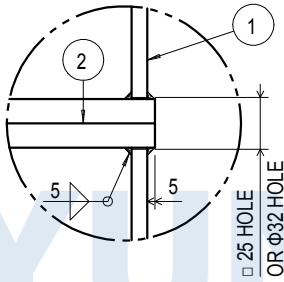
※ PAINT SYMBOL : PT
※ 폭 350MM
※ STEP PITCH : 340MM

D11BL(P)
D11BL(S)

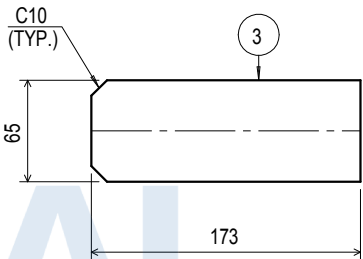
PLAN



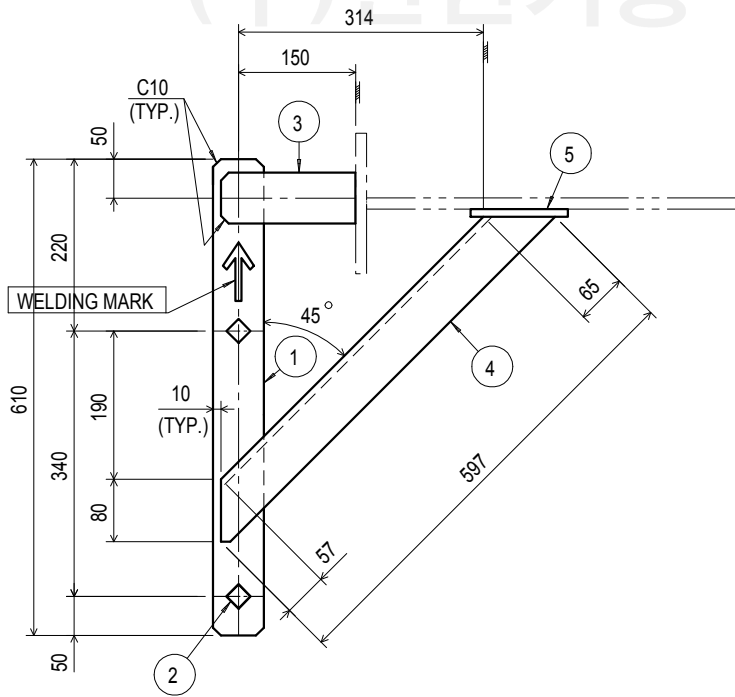
DET. OF "X"



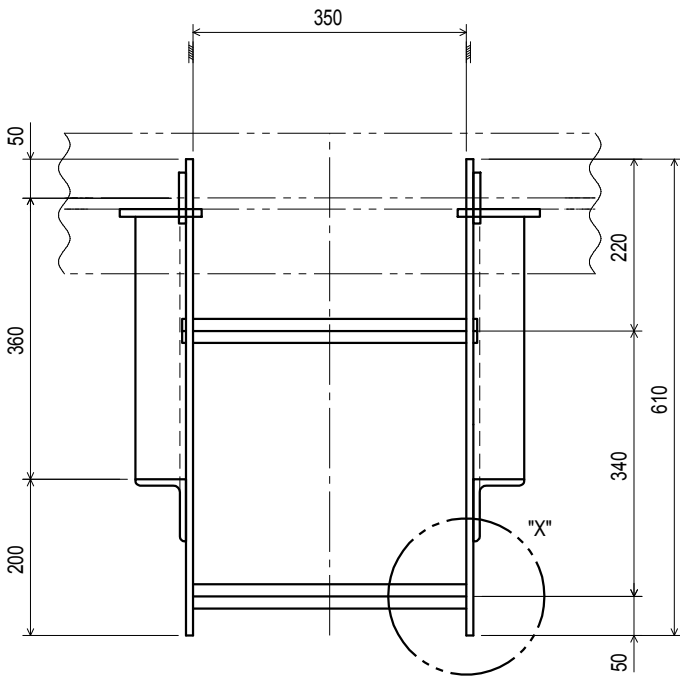
DET. OF "UPPER LUG"



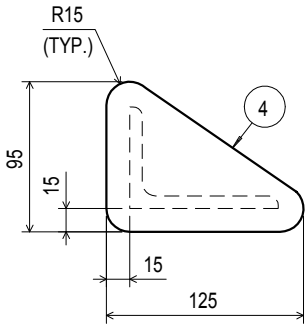
VIEW - "A"



VIEW - "B"



DET. OF "PAD"



5	PAD	10t PLATE	SS400 or SS275	2		
4	LOWER LUG	65 X 65 X 8t E.A	SS400 or SS275	2		
3	UPPER LUG	65 X 9t F.B	SS400 or SS275	2		
2	STEP	22 SQ.BAR	SS400 or SS275	2		
1	SIDE FRAME	65 X 9t F.B	SS400 or SS275	2		
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK

O8020-D11T0B3856BB-003



※ STEP PITCH : 250임에 유의할 것.

DETAIL OF INCLINED LADDER

※ 각도에 주의하여 제작할 것.(65도)

SHIP NO. 8020 / 8021 04
DWG NO. D11T0-B38-56BB

NOTE

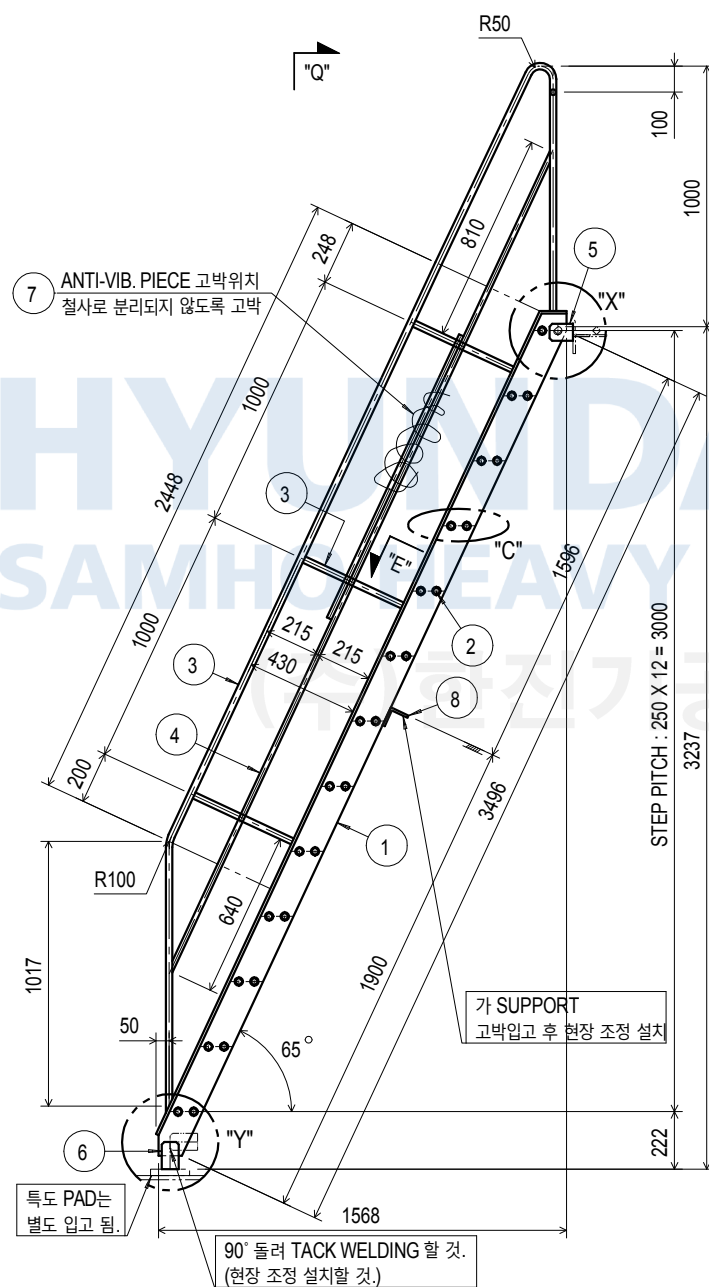
1. 본도는 PORT SIDE 를 나타내었으며, STB'D SIDE 는 대칭 제작 할 것.
2. PAINT CODE : PT
3. LOWER LUG는 90° 돌려 TACK WELDING할 것.(현장 조정 설치할 것.)

BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
D11BL(P)	ILD-T701P	1	245.6	본도 제작
D11BL(S)	ILD-T701S	1	245.6	대칭 제작

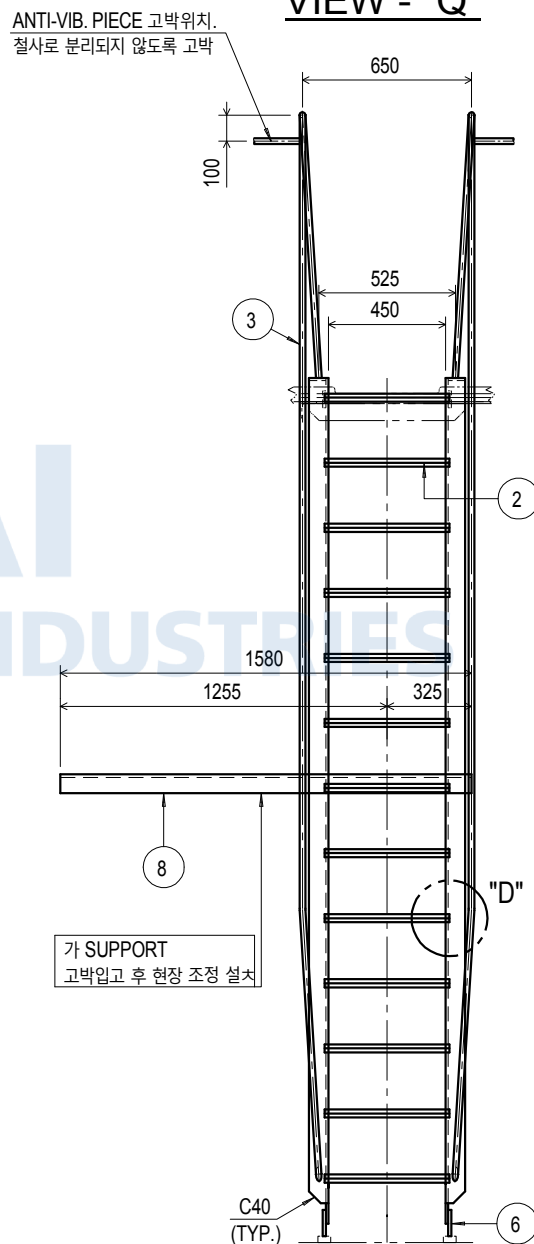
설치 BLOCK

D11BL(P)
D11BL(S)

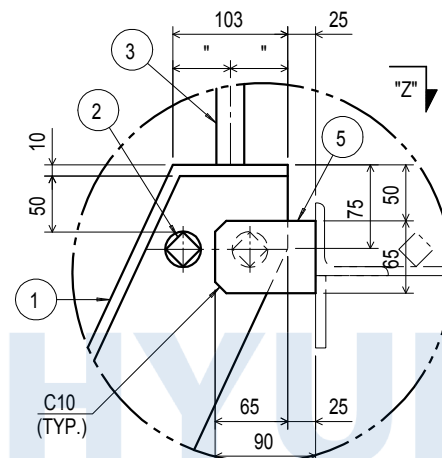
LOOKING TO FWD.



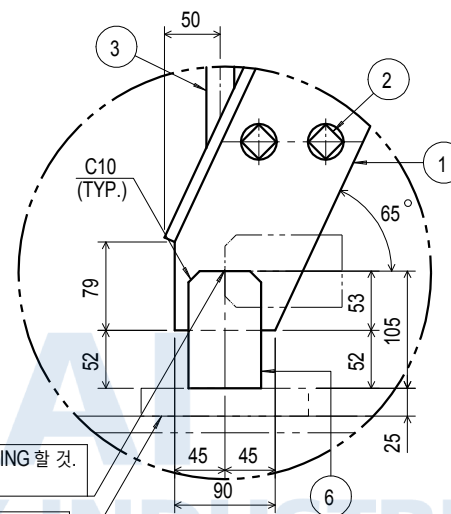
VIEW - "Q"



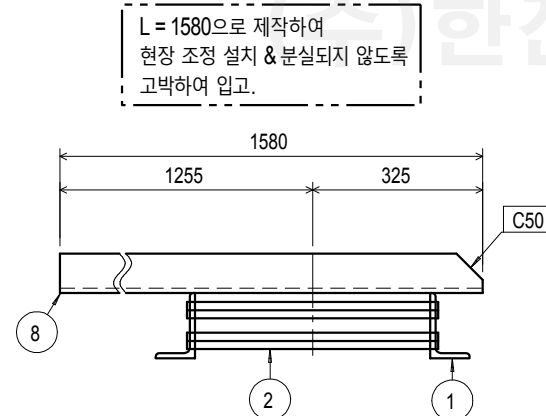
DET. OF "X"



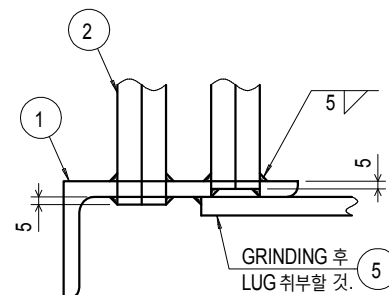
DET. OF "Y"



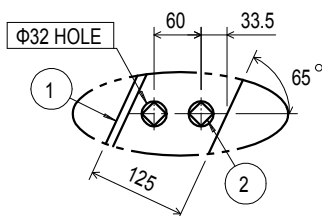
DET. OF SUPPORT



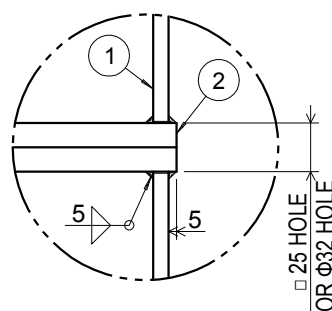
VIEW - "Z"



DET. OF "C"



DET. OF "D"



NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK
8	가 SUPPORT	75 X 75 X 9t E.A	SS400 or SS275	1		고박입고
7	ANTI-VIB. PIECE	Φ22 R.BAR (L=1200)	SS400 or SS275	1		고박입고
6	LOWER LUG	65 X 12t F.B	SS400 or SS275	2		
5	UPPER LUG	65 X 12t F.B	SS400 or SS275	2		
4	MID RAIL	Φ19 R.BAR	SS400 or SS275	2		
3	TOP RAIL & POST	Φ25 R.BAR	SS400 or SS275	2		
2	STEP	22 SQ.BAR	SS400 or SS275	26		
1	SIDE FRAME	125 X 75 X 10t U.A	SS400 or SS275	2		

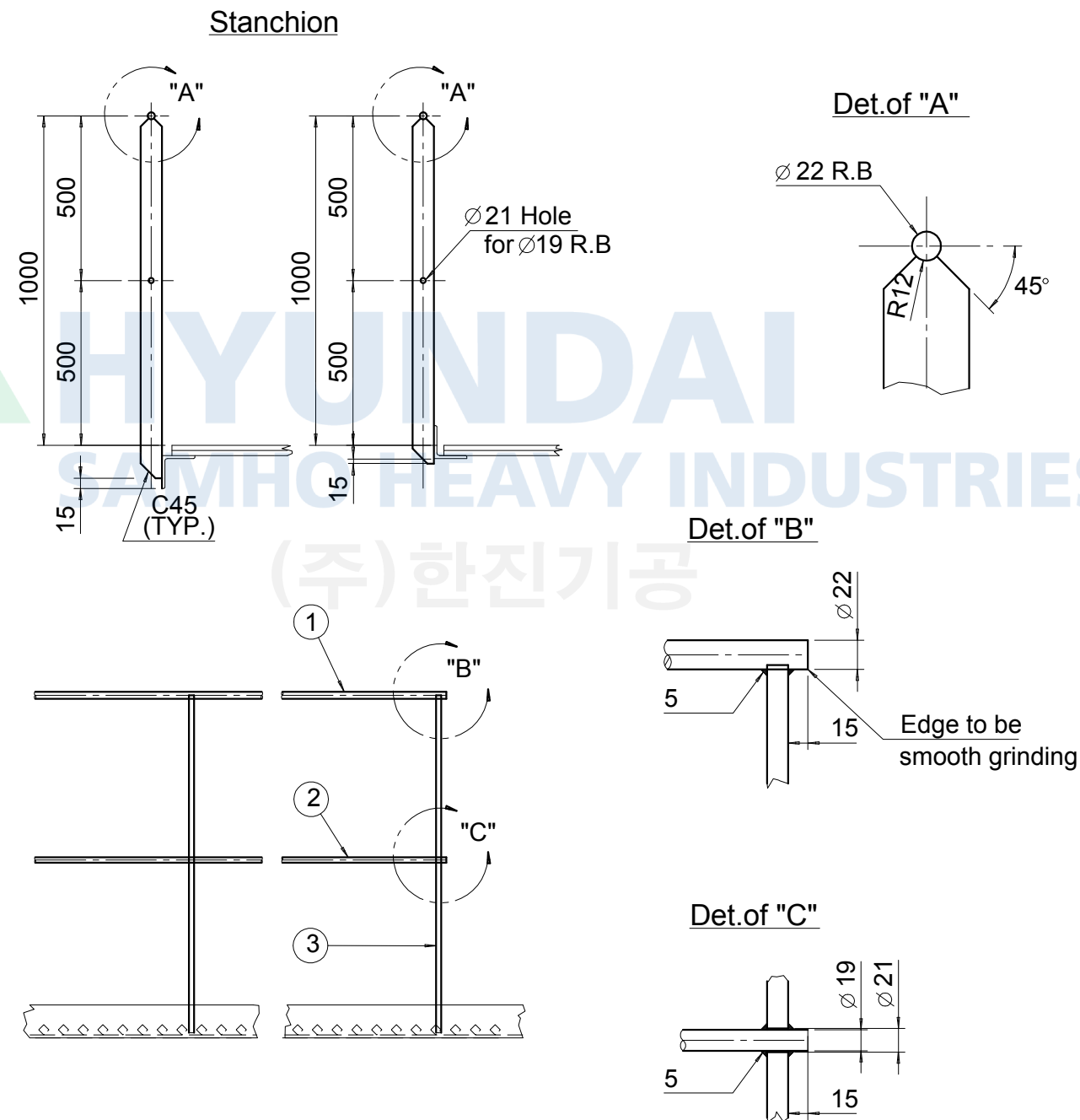
O8020-D11T0B3856BB-004

08020-D11T0B3856BB-005



HANDRAIL (TYPE - D1)

No.	Description	Size	Mat'l	Q'ty /Set	Wt(kg)	Remark
1	Top rail	Ø22 R.B	SS400 or SS275	1		PAINT ONLY
2	Mid rail	Ø 19 R.B	SS400 or SS275	1		PAINT ONLY
3	Stanchion	65X16t F.B	SS400 or SS275	1		PAINT ONLY



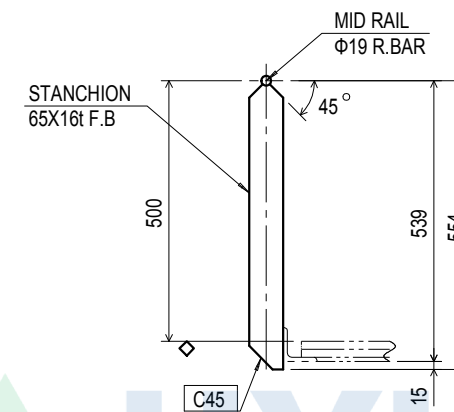
Note

- 1.Stanchion space : Abt. 1500mm
- 2.Application : Access platforms in cargo tank for tanker including product oil carrier
- 3.Surface treatment shall be done in accordance with Painting specification.

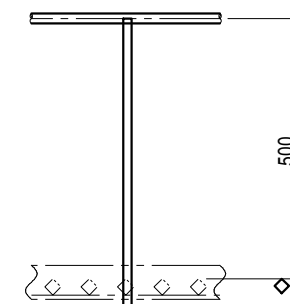
DETAIL OF STANCHION FOR PLATFORM

SHIP NO.	8020 / 8021	05
DWG NO.	D11T0-B38-56BB	

TYPE - M1



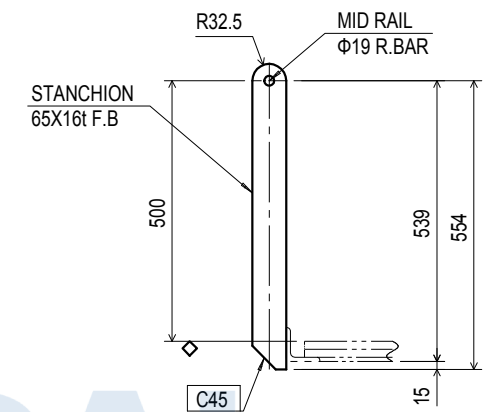
(MID STANCHION에 적용)



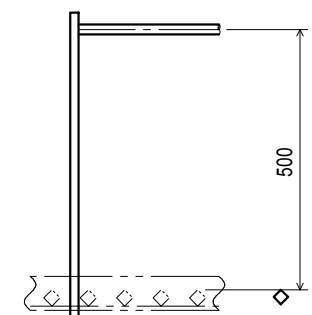
TOP RAIL : Ø22 R.BAR

MID RAIL : Ø19 R.BAR


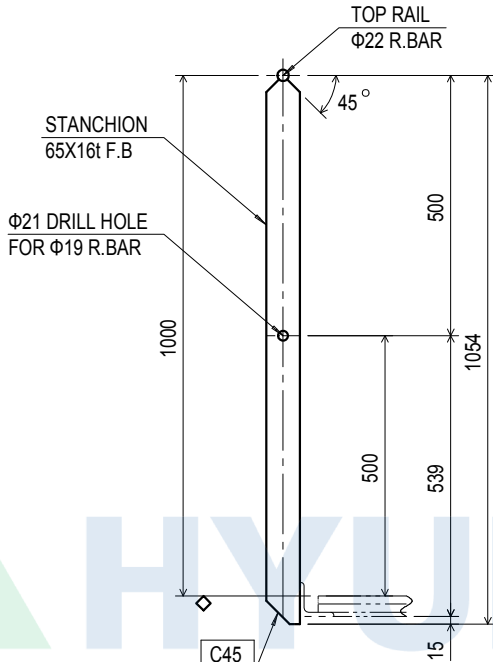
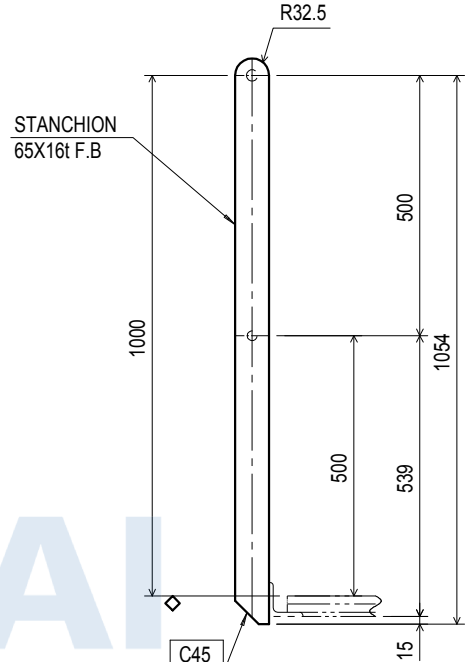
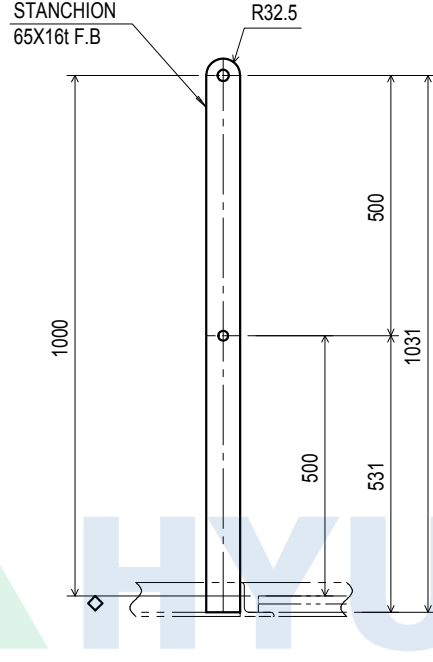
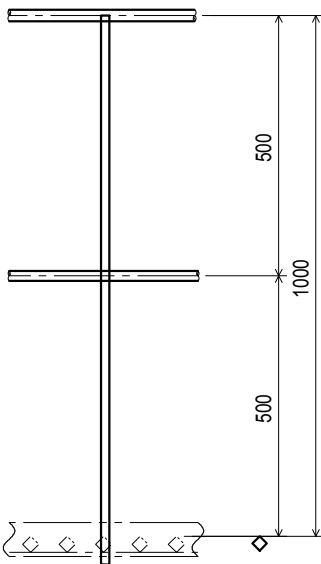
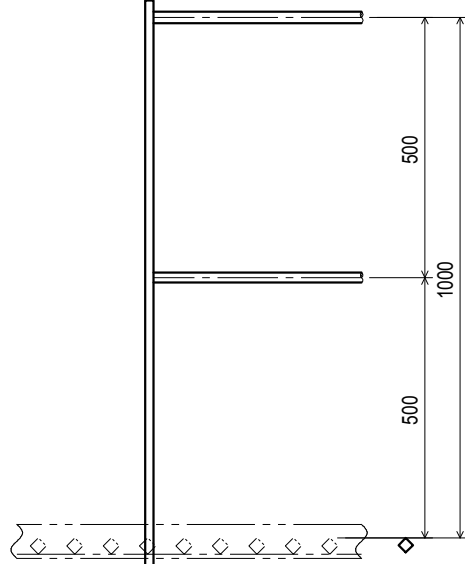
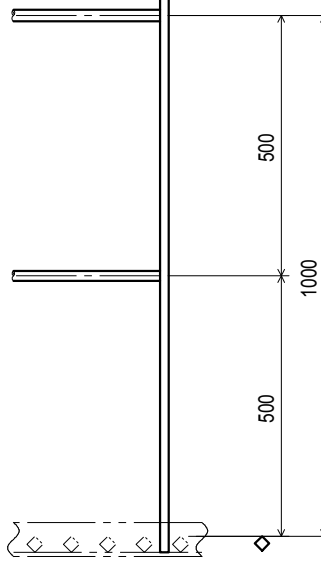
TYPE - E1



(END STANCHION에 적용)



STANCHION : 65 X 16t F.B

	DETAIL OF STANCHION FOR PLATFORM			SHIP NO.	8020 / 8021	06
				DWG NO.	D11T0-B38-56BB	
TYPE - M		TYPE - E		TYPE - S		<div>BLANK</div>
						
(MID STANCHION에 적용)		(END STANCHION에 적용)		(END STANCHION에 적용)		
						
TOP RAIL : Φ22 R.BAR		STANCHION : 65 X 16t F.B		TOP RAIL : Φ22 R.BAR		
MID RAIL : Φ19 R.BAR				MID RAIL : Φ19 R.BAR		

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08020-D11T0B3856BB-006



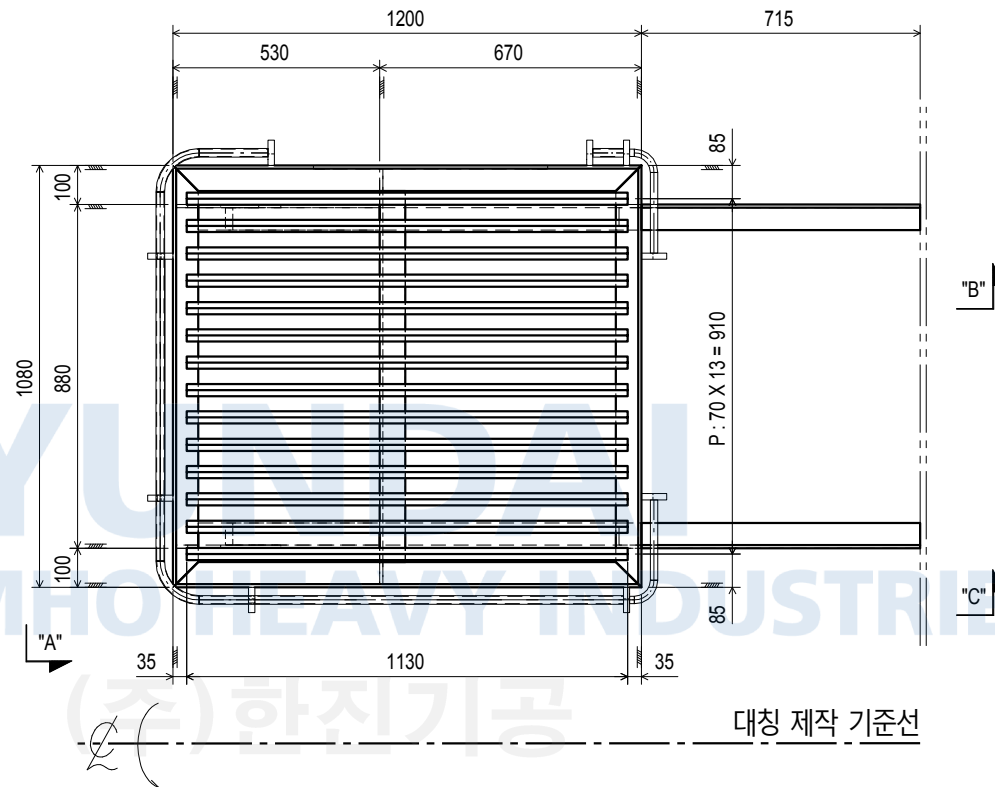
SHIP NO.	8020 / 8021	07
DWG NO.	D11T0-B38-56BB	／

1. 본도는 PORT SIDE 를 나타내었으며, STB'D SIDE 는 대칭 제작 할 것.
2. PAINT CODE : PT
3. HANDRAIL(STANCHION) 제작시 DETAIL 도면 (PAGE : 05, 06) 참조할 것.

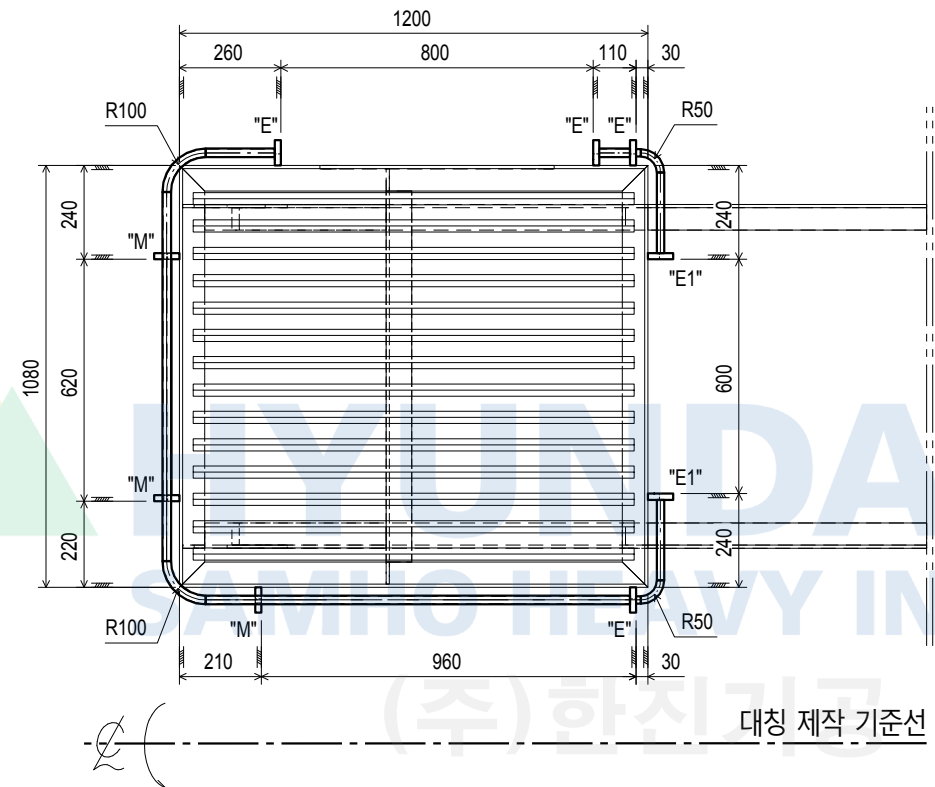
BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
D11BL(P)	PFD-T701P	1	254.0	본도 제작
D11BL(S)	PFD-T701S	1	254.0	대칭 제작

D11BL(P)
D11BL(S)

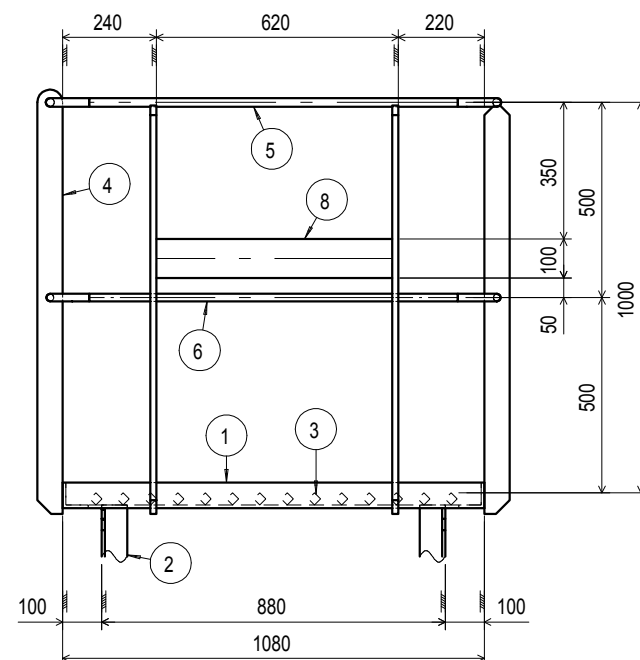
PLATFORM PLAN



HANDRAIL PLAN



VIEW - "A"



8	STIFFENER	100 X 12t F.B	SS400 or SS275	1		
7	STIFFENER	65 X 9t F.B	SS400 or SS275	1		
6	MID RAIL	Φ19 R.BAR	SS400 or SS275	2		
5	TOP RAIL	Φ22 R.BAR	SS400 or SS275	2		
4	STANCHION	65 X 16t F.B	SS400 or SS275	9		
3	STEP	22 SQ.BAR	SS400 or SS275	14		
2	SUPPORT	65 X 65 X 8t E.A	SS400 or SS275	1		
1	SIDE FRAME	65 X 65 X 8t E.A	SS400 or SS275	1		
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK



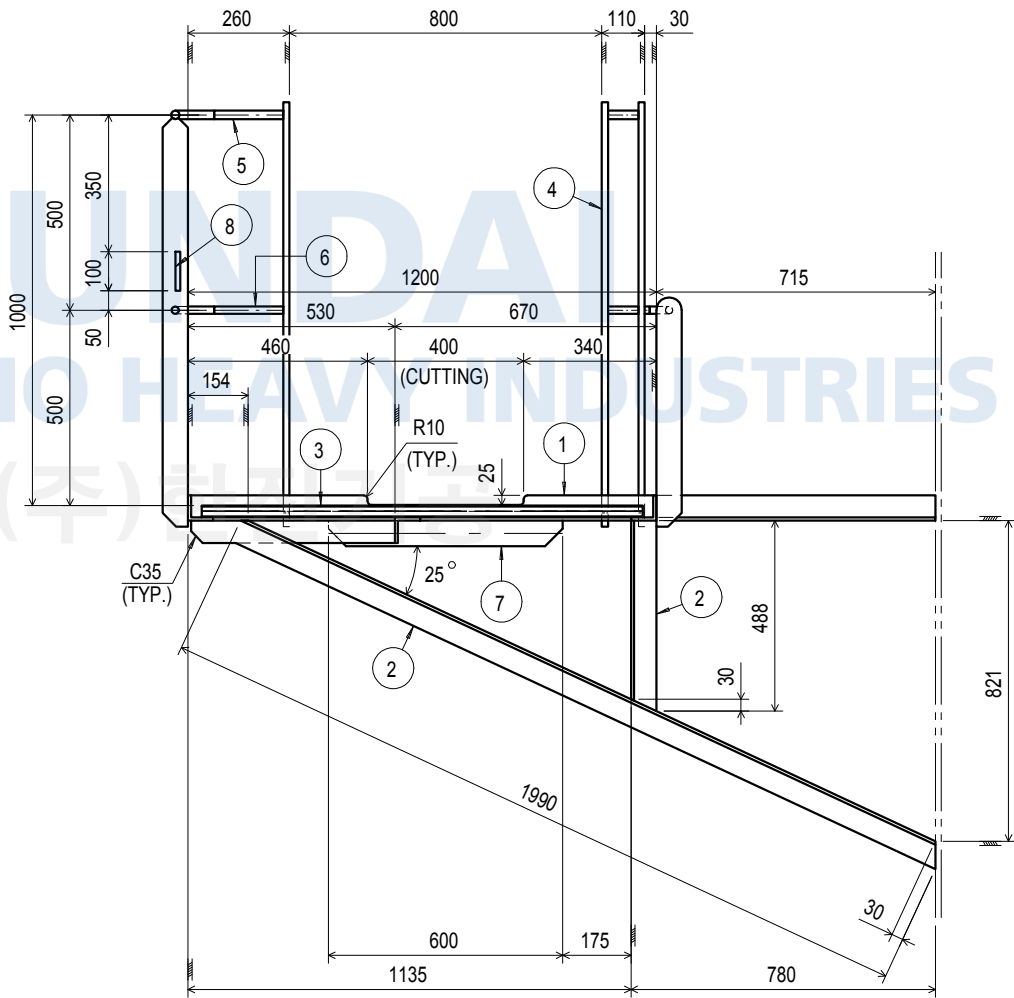
DEATIL OF PLATFORM (2 / 2)

SHIP NO.	8020 / 8021	08
DWG NO.	D11T0-B38-56BB	

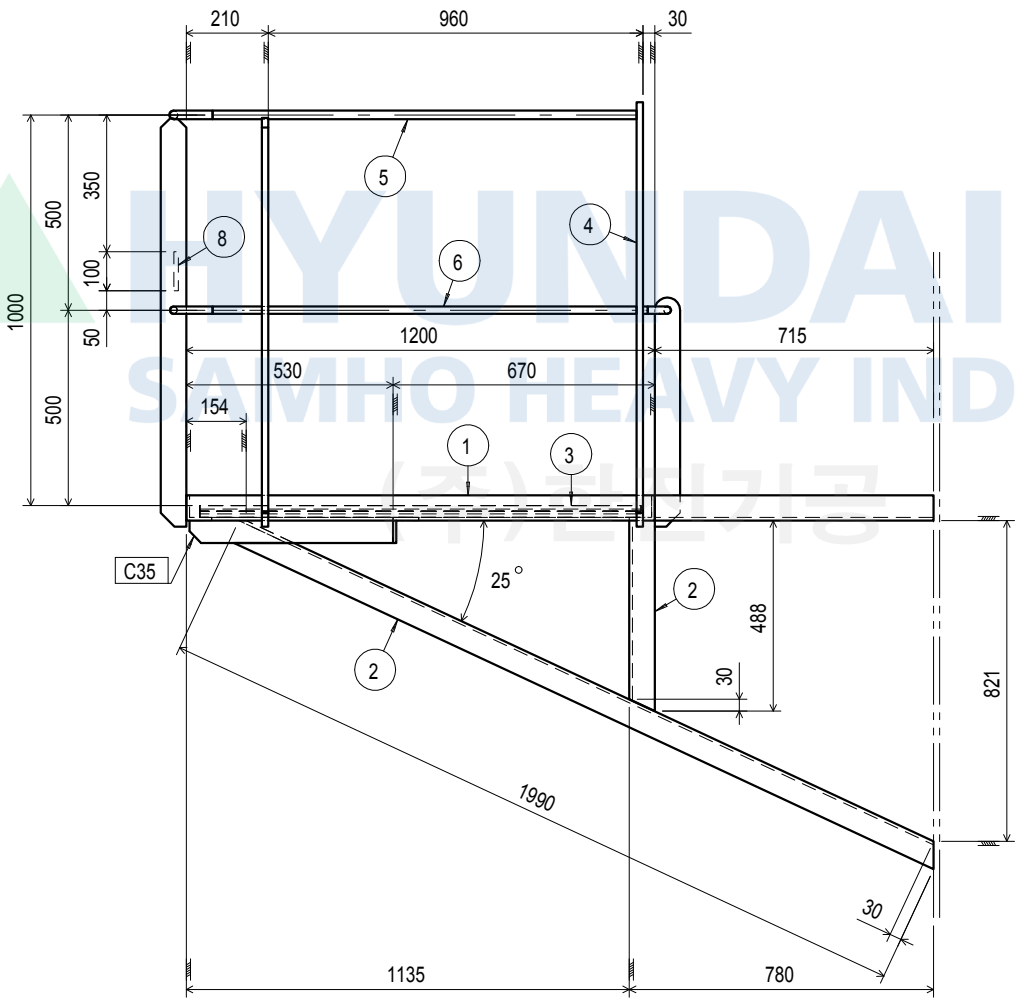
설치 BLOCK

D11BL(P)
D11BL(S)

VIEW - "B"



VIEW - "C"



O8020-D11T0B3856BB-008



DEATIL OF PLATFORM (1 / 2)

SHIP NO.	8020 / 8021	09
DWG NO.	D11T0-B38-56BB	

NOTE

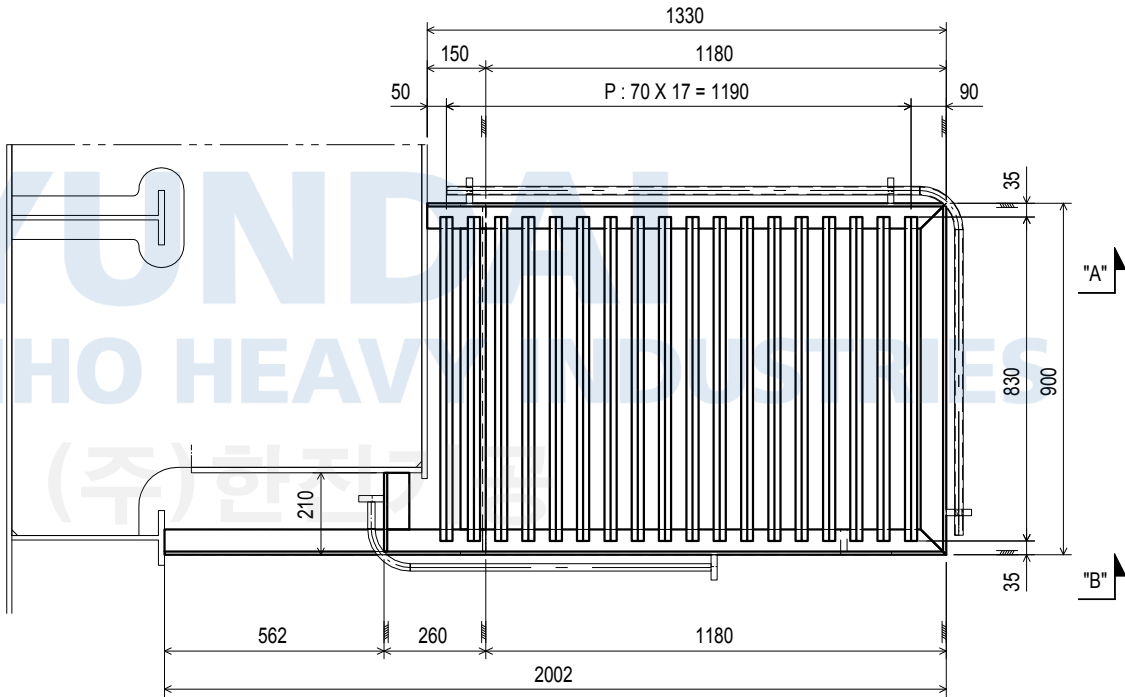
1. 본도는 PORT SIDE 를 나타내었으며, 본도대로 제작할 것.
2. PAINT CODE : PT
3. HANDRAIL(STANCHION) 제작시 DETAIL 도면 (PAGE : 05, 06) 참조할 것.

BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
D11BL(P)	PFD-T702P	1	185.3	본도 제작

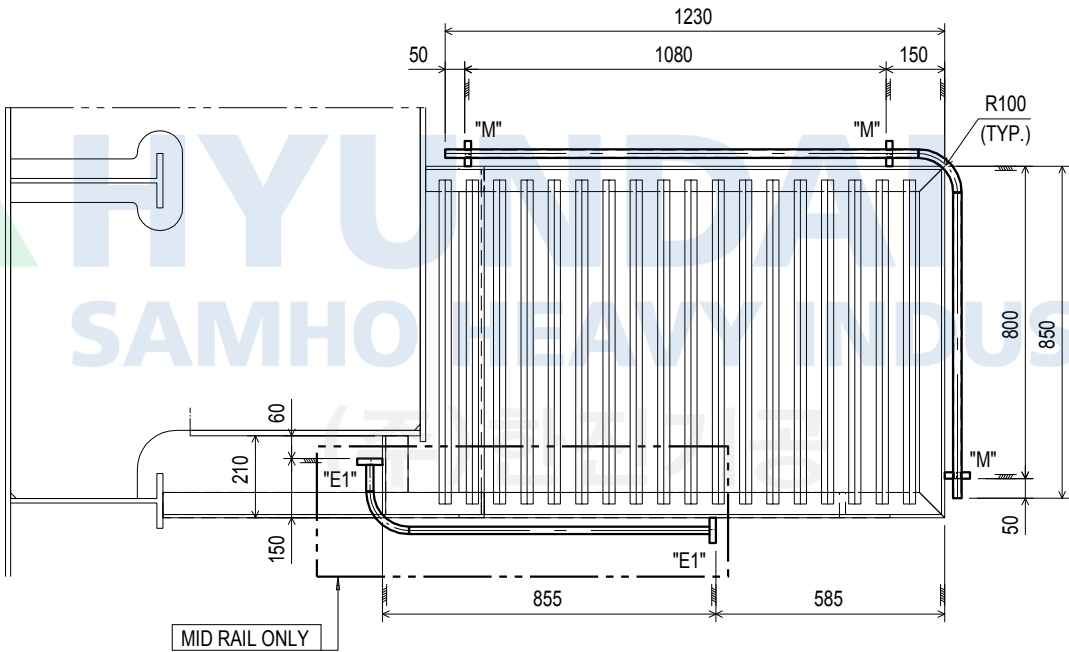
설치 BLOCK

D11BL(P)

PLATFORM PLAN



HANDRAIL PLAN



6	MID RAIL	Φ19 R.BAR	SS400 or SS275	2		
5	TOP RAIL	Φ22 R.BAR	SS400 or SS275	1		
4	STANCHION	65 X 16t F.B	SS400 or SS275	5		
3	STEP	22 SQ.BAR	SS400 or SS275	18		
2	SUPPORT	65 X 65 X 8t E.A	SS400 or SS275	1		
1	SIDE FRAME	65 X 65 X 8t E.A	SS400 or SS275	1		
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK



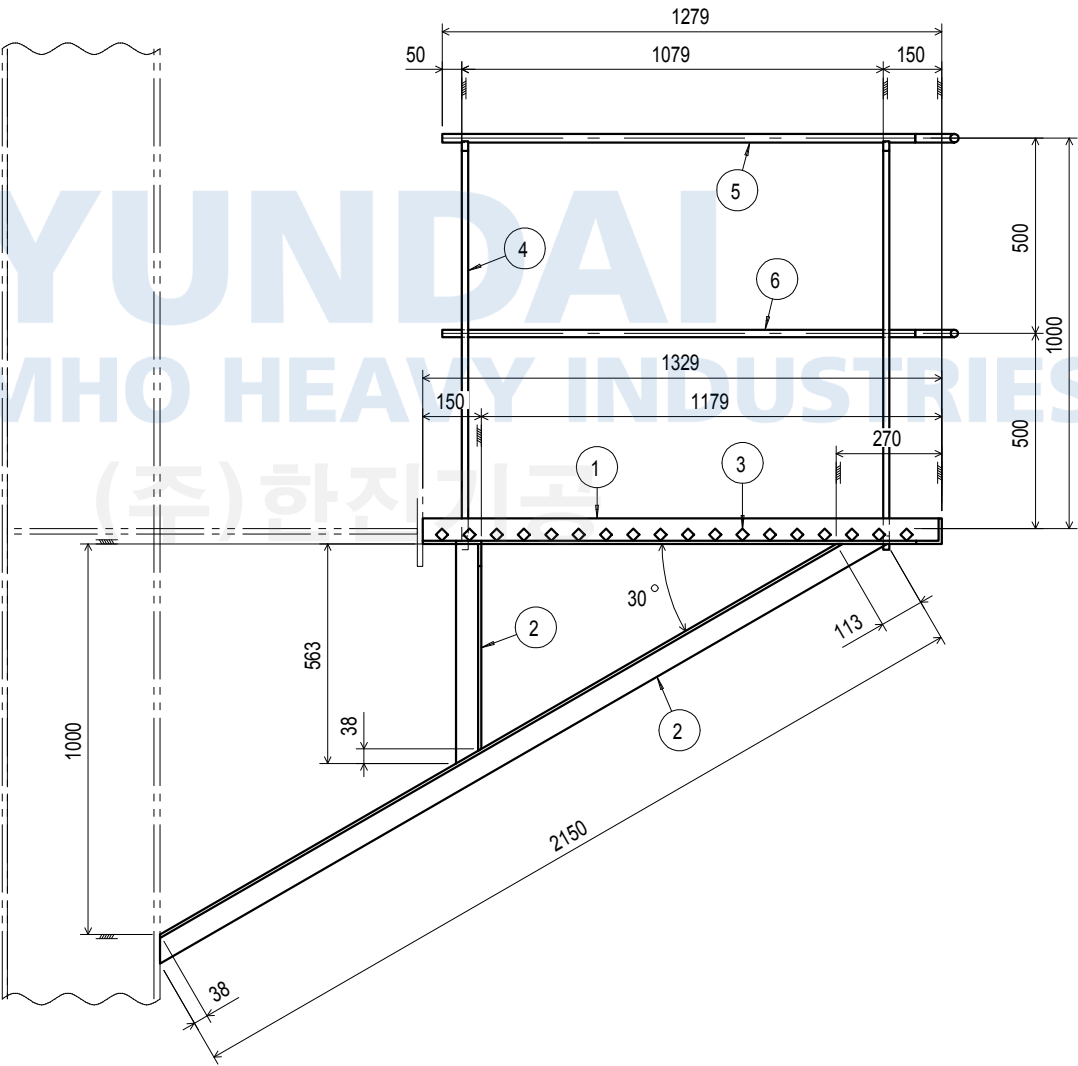
DEATIL OF PLATFORM (2 / 2)

SHIP NO.	8020 / 8021	10
DWG NO.	D11T0-B38-56BB	

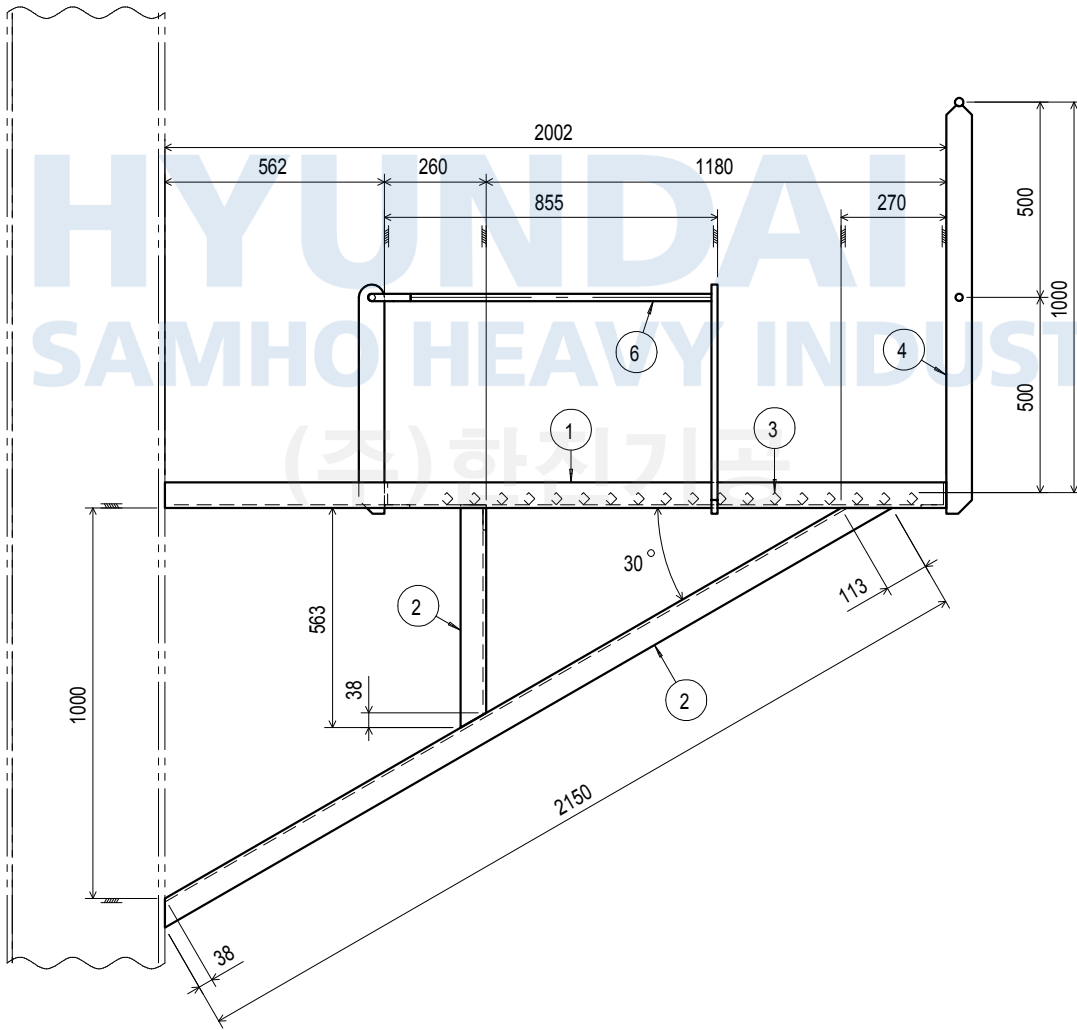
설치 BLOCK

D11BL(P)

VIEW - "A"



VIEW - "B"



O8020-D11T0B3856BB-010



DEATIL OF PLATFORM

SHIP NO.	8020 / 8021	11
DWG NO.	D11T0-B38-56BB	END

NOTE

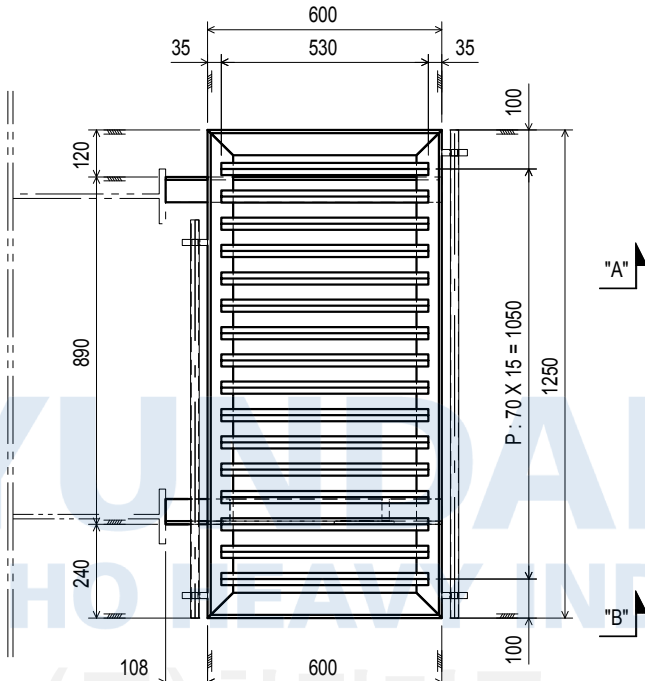
1. 본도는 STB'D SIDE 를 나타내었으며, 본도대로 제작할 것.
2. PAINT CODE : PT
3. HANDRAIL(STANCHION) 제작시 DETAIL 도면 (PAGE : 05, 06) 참조할 것.

BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
D11AL(S)	PFD-T702S	1	125.4	본도 제작

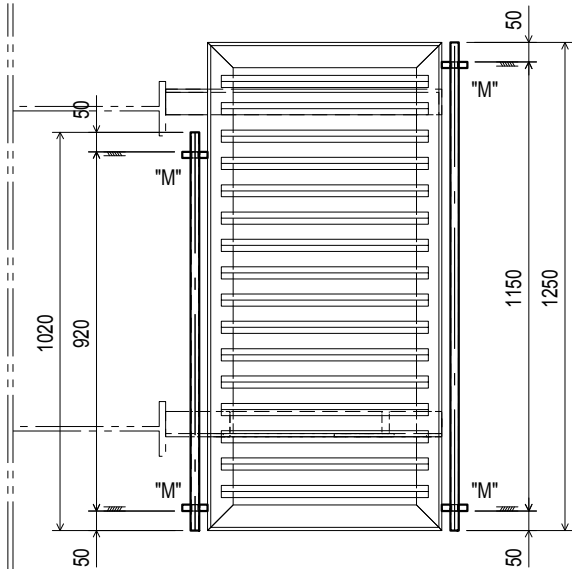
설치 BLOCK

D11AL(S)

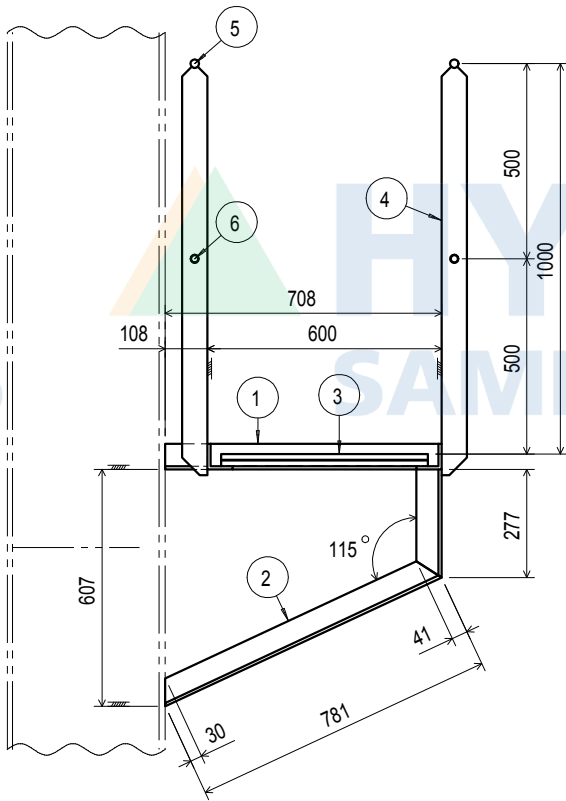
PLATFORM PLAN



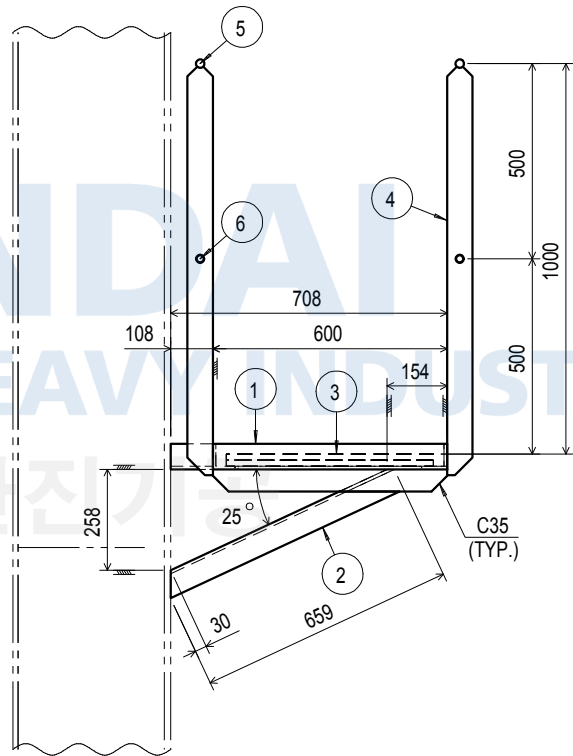
HANDRAIL PLAN



VIEW - "A"



VIEW - "B"



6	MID RAIL	Φ19 R.BAR	SS400 or SS275	2		
5	TOP RAIL	Φ22 R.BAR	SS400 or SS275	2		
4	STANCHION	65 X 16t F.B	SS400 or SS275	4		
3	STEP	22 SQ.BAR	SS400 or SS275	16		
2	SUPPORT	65 X 65 X 8t E.A	SS400 or SS275	1		
1	SIDE FRAME	65 X 65 X 8t E.A	SS400 or SS275	1		
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK

O8020-D11T0B3856BB-011