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PLAN HISTURY								
DATE	REV.NO.	DESCRIPTION	DRAWN	CHKD	APPRD			
2023.02.10	ORG.	ORIGINALLEY PREPARED FOR SHIP NO. 8170	임 종 길	김 태 환	김 상 형			

DI AN LICTODY

♦ NOTE ♦

- 1. TOTAL WEIGHT: 963.2 kg
- 2. P.O.R NO. : TG1-01
- 3. 제작시 문제점은 당 설계사와 협의 후 제작 할 것.
- 4. 제작시공 요령 및 각 FITTING류 상세는 당부서 표준서
 "GRATING, LADDER, HANDRAIL 작업표준도(HS(D)-F8-715)에 준함.

(주)한진기공

CAUTION

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A3: 6 A4: 12

(18 SHEETS WITH A COVER)

DEP'T NO.	SHIP NO.	SHIP TYPE				
B125	8170	174,000 CBM CLASS LNG CARRIER				
TEL. NO.	SHIP DESIGN OFFICE	SHIP NAME				
4430	MACHINERY OUTFITTING DESIGN DEP'T					
APPROVED	BY 김 상 형	TITLE				
		PC'S OF GRATING, LADDER				
CHECKED B	 ex 김 태 환	HANDRAIL IN E/R				
DRAWN BY	임 종 길	(H31C BLOCK, 선행)				
		SCALE NONE	DWG ND. H31C0C30512M-0			
HYUNDAI SA	MHO HEAVY INDUSTRIES CO., LTD.	DATE	CONSOLIDATED NO.			
	SAMHO SHIPYARD, KOREA	2023.02.10				

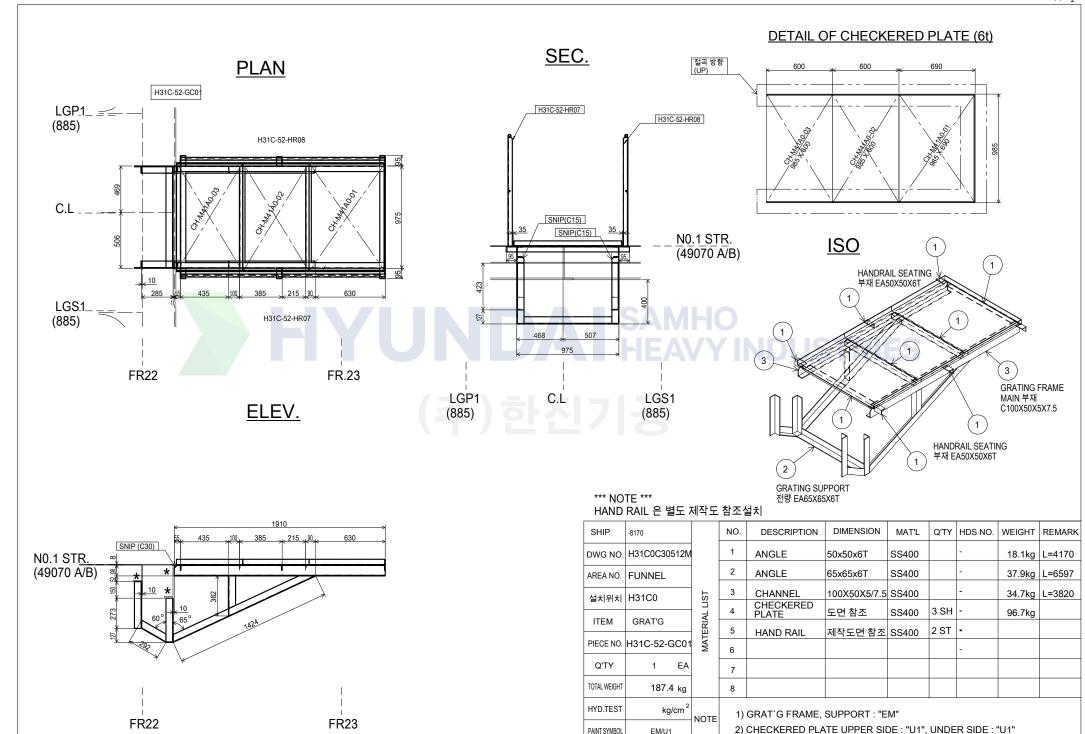
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	/\ PIECE LIST			SHIP NO.	8170	
		1 ILOL LIGT				H31C0C30512M
NO.	STAGE	ITEM	PIECE NO.		WEIGHT (kg)	REMARK
1	H31C0-C30-000	GRATING FRAME & CHECKERED PLATE	H31C-52-GC01 1		187.4	TG1-01
		HANDRATL	H31C-52-HR01 ~ 08 H31C-52-WS01 ~ 08	16	643.8	TG1-02
		VERTICAL LADDER	H31C-52-VL01 ~ 02	2	112	TG1-03
		VERTICAL LADDER STEP	H31C-52-VLO2 PC'S에 설치입고	1	20	TG1-04

TOTAL WEIGHT: 963.2 kg

HYUNDAI SAMHO HEAVY INDUSTRIES

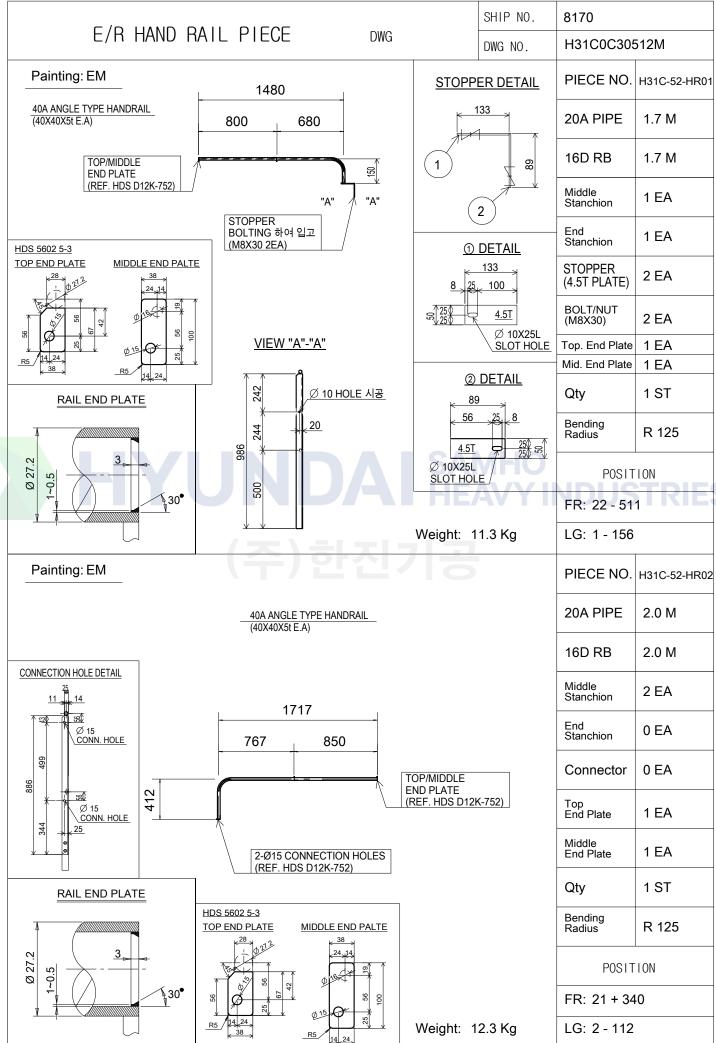
(주)한진기공

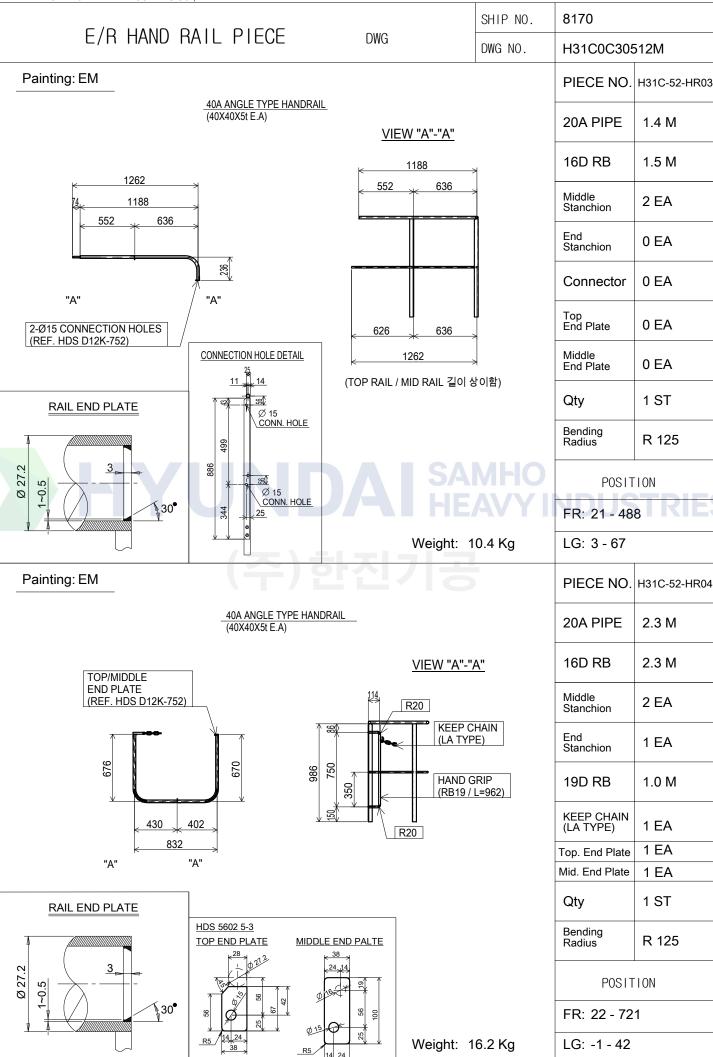


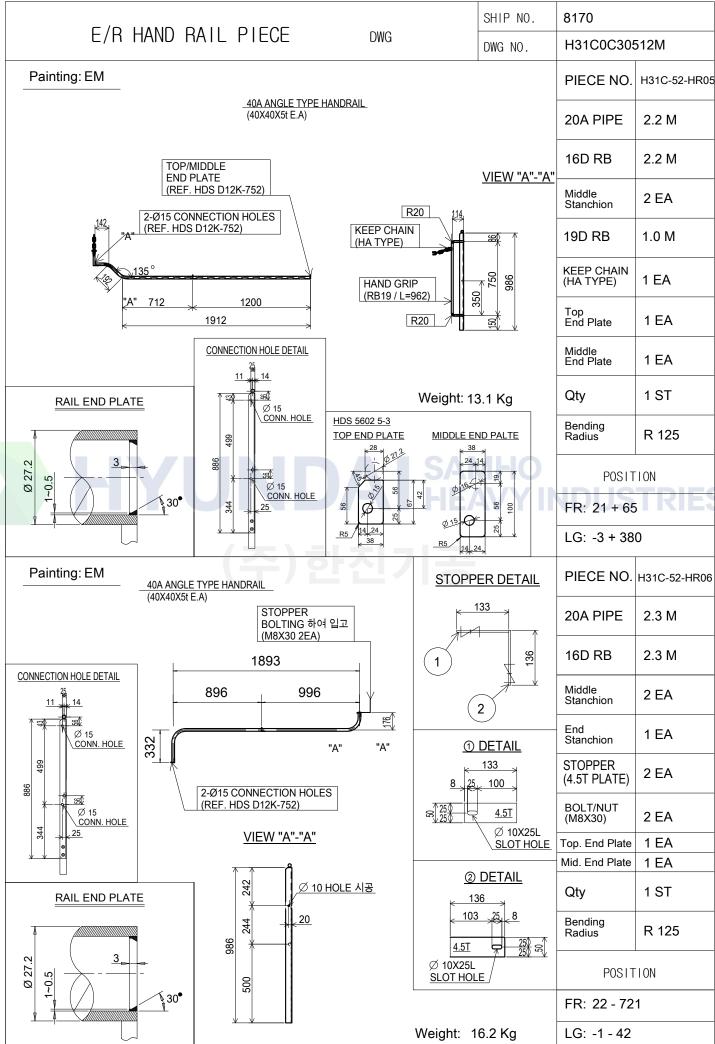
EM/U1

PAINT SYMBOL











SHIP NO. 8170 E/R HAND RAIL PIECE DWG H31C0C30512M DWG NO. Painting: EM PIECE NO. H31C-52-HR07 40A ANGLE TYPE HANDRAIL 20A PIPE (40X40X5t E.A) 1.9 M **16D RB** 1.9 M VIEW "A"-"A" Middle Stanchion 1 EA "A" ∅ 10 HOLE 시공 End Stanchion 2 EA 244 921 934 0 EA Connector 1855 "A" 500 Top End Plate 0 EA Middle End Plate 0 EA 1ST Qty RAIL END PLATE Bending Radius Ø 27.2 **POSITION** 1~0.5 30° FR: 23 - 532 Weight: 14.8 Kg LG: -1 + 325 Painting: EM PIECE NO. H31C-52-HR08 40A ANGLE TYPE HANDRAIL 20A PIPE (40X40X5t E.A) 1.9 M 16D RB 1.9 M VIEW "A"-"A" Middle 1EA 1855 Stanchion "A" ∅ 10 HOLE 시공 921 934 End 2 EA Stanchion 20 244 Connector 0 EA "A" Top End Plate 500 0 EA Middle End Plate 0 EA 1ST Qty RAIL END PLATE Bending Radius Ø 27.2 3 POSITION 1~0.5 §30° FR: 23 - 532

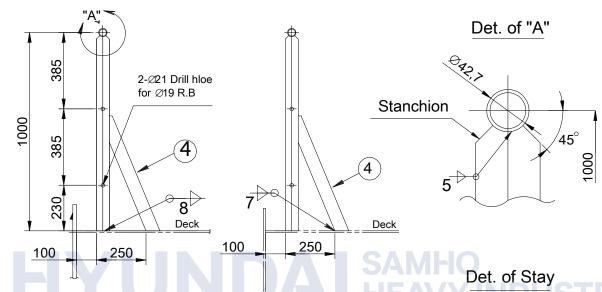
Weight: 14.8 Kg

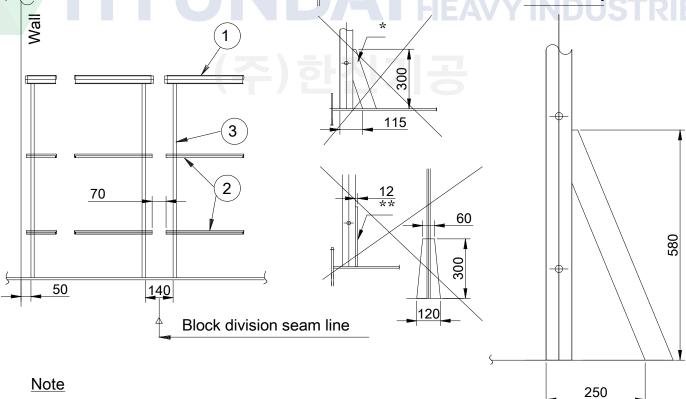
LG: 1-400

Handrail (Type-A1)

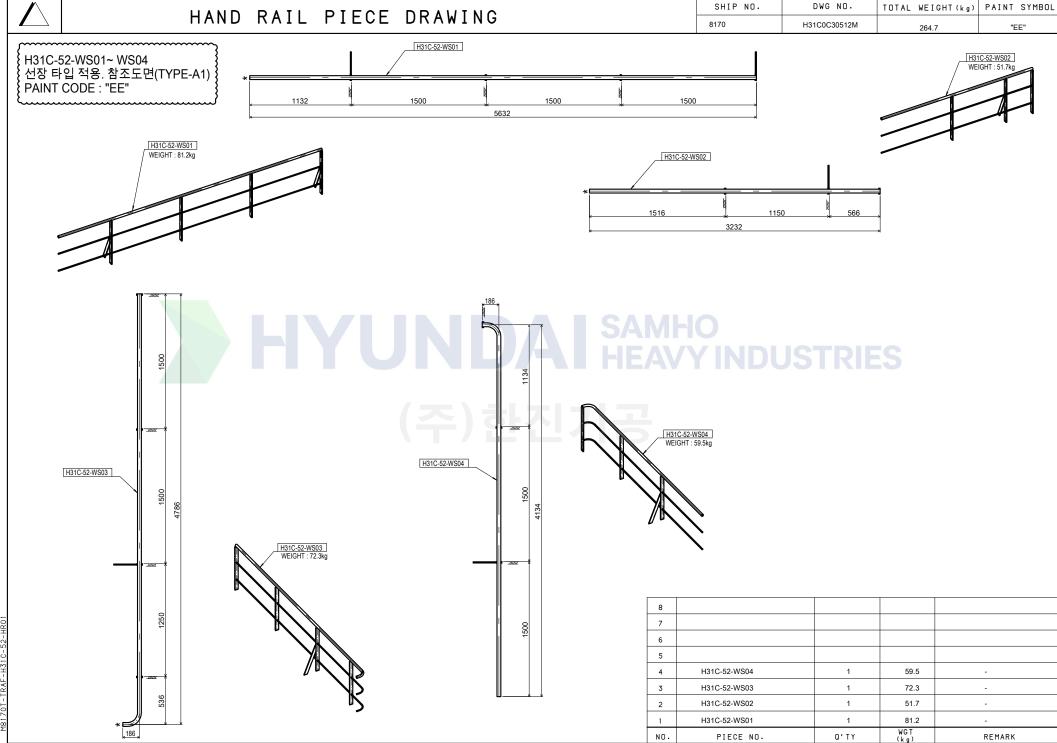
SHIP NO.	8170
DWG NO.	H31C0C30511M

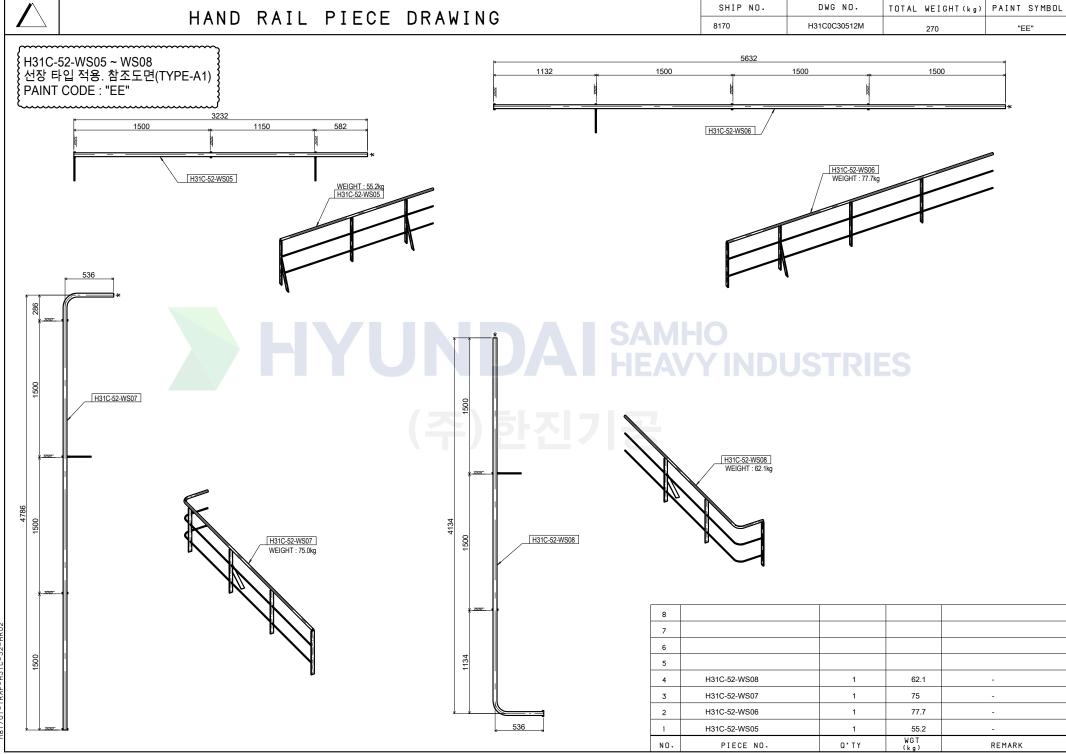
No. Description		Size	Material	Q'ty	Weight	Remark
1	Top rail	32A PIPE	S.P.P	1	3.14kg/m	
2	Mid rail	Ø 19 R.B	SS400 or SS275	2	2.23kg/m	
3	Stanchion	65 X 16t F.B	SS400 or SS275	1	8.16kg/m	
4	Stay	65 X 12t F.B or 12t S/PI	SS400 or SS275	1	6.12kg/m	





- 1. Stanchion space; Abt. 1500mm interval.
- 2. Stay space; At every third stanchion pitch.
- Ship side area on weather deck, Safety access to bow. 3. Application;
- 4. (* or ** Mark) Stay shall be applied in way of narrow passageway space. (Stay space; Two stanchion pitch)





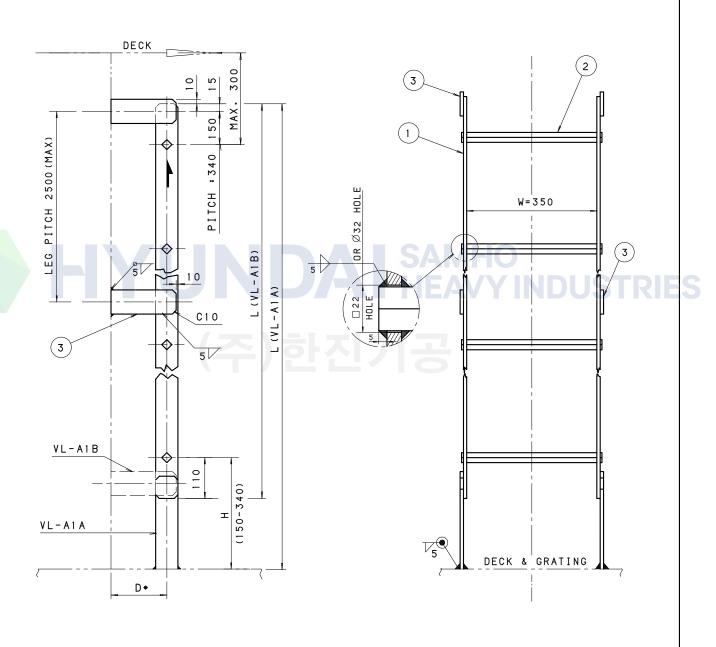
VERTICAL LADDER (VL-A1)

SHIF	P NO.	8170		
HS	NO.	D12K-7	49	1/5
٠ш	'06	'13	'2	20
REV DATE	11 10	12 20	05	07

NO.	DESCRIPTION	DIMENSION	MAT'L	Q'TY	WEIGHT(kg)	REMARK
1	SIDE FRAME	65X9t FLAT BAR	SS400	2	4.59/m	PAINTED
2	STEP	22 SQUARE BAR	SS400	-	3.80/m	PAINTED
3	LEG	65X9t FLAT BAR	SS400	-	0.98/EA	PAINTED
4	PAD	10t	SS400	-	0.35/EA	PAINTED

P: 10

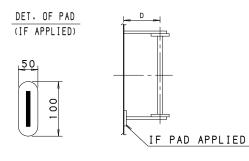
Unit : mm



D* : 180 = FOR INSULATION

: 150 = FOR WALL OR BHD

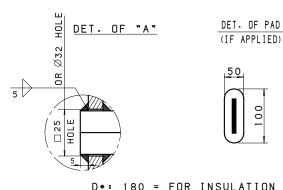
: 100 = FOR GENERAL



SHIP NO. 8170 D12K-749 HS NO. VERTICAL LADDER WITH SAFETY HOOP FOR HULL TANK (VL-A2) 10 07 20 DESCRIPTION Q'TY NO. DIMENSION MAT'L WEIGHT (kg) REMARK SIDE FRAME 2 65X9t FLAT BAR SS400 4.59/m PAINTED 22 SQUARE BAR STEP SS400 3.80/m PAINTED 3 LEG 65X9t FLAT BAR SS400 0.98/EA PAINTED PAD 10t SS400 0.35/EA PAINTED BACK BAND 65X9t FLAT BAR SS400 2 19.49 kg PAINTED 6 VERTICAL PLATE 65X9t F.B. SS400 9.74 kg PAINTED DECK Unit : mm NOZZLE NOZZLE 50 ⊚ 500 (3) PITCH 2500 (MAX) PITCH HOOP (VL-A2B) (VL-A2A) 10 W = 350<u>C10</u> (3) VL-A2B

D *

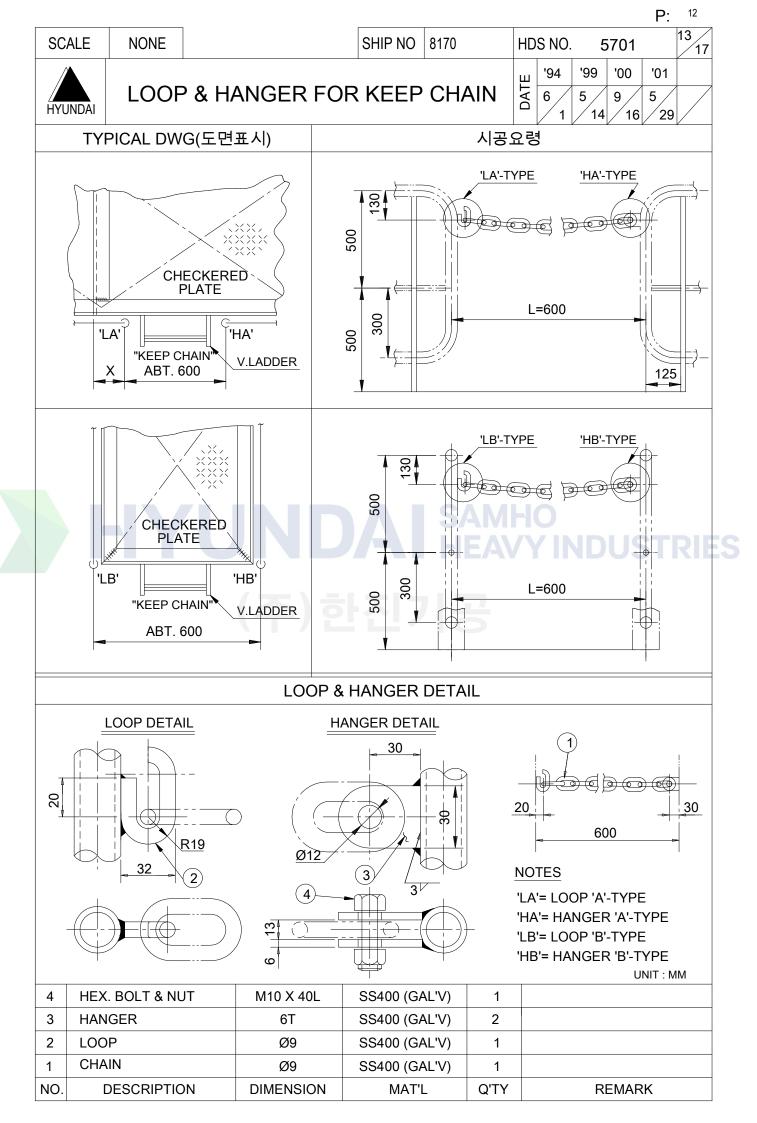
VL-A2A



D*: 180 = FOR INSULATION : 150 = FOR WALL OR BHD

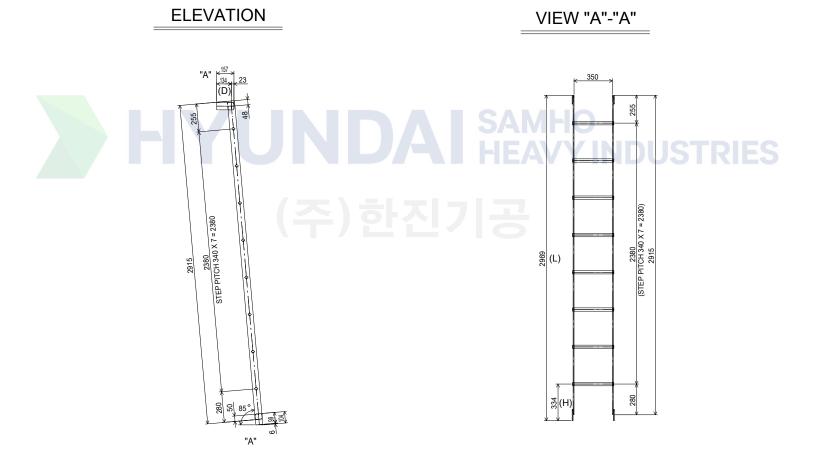
DECK & GRATING

100 = FOR GENERAL



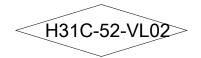
PAINT : EM

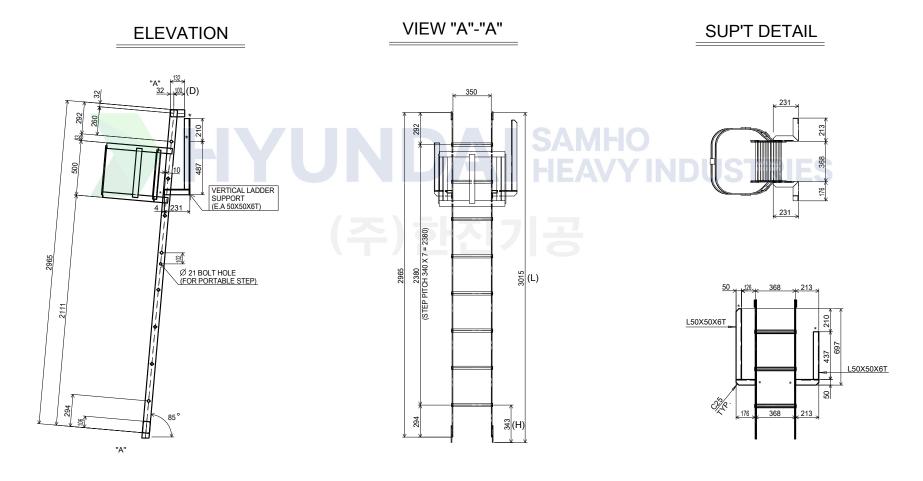




SHIP NO	8170				
VERTICAL LADDER 제작도 (H31C-52-VL01)					
DWG NO.	H31C0C30512M				

PAINT : EM

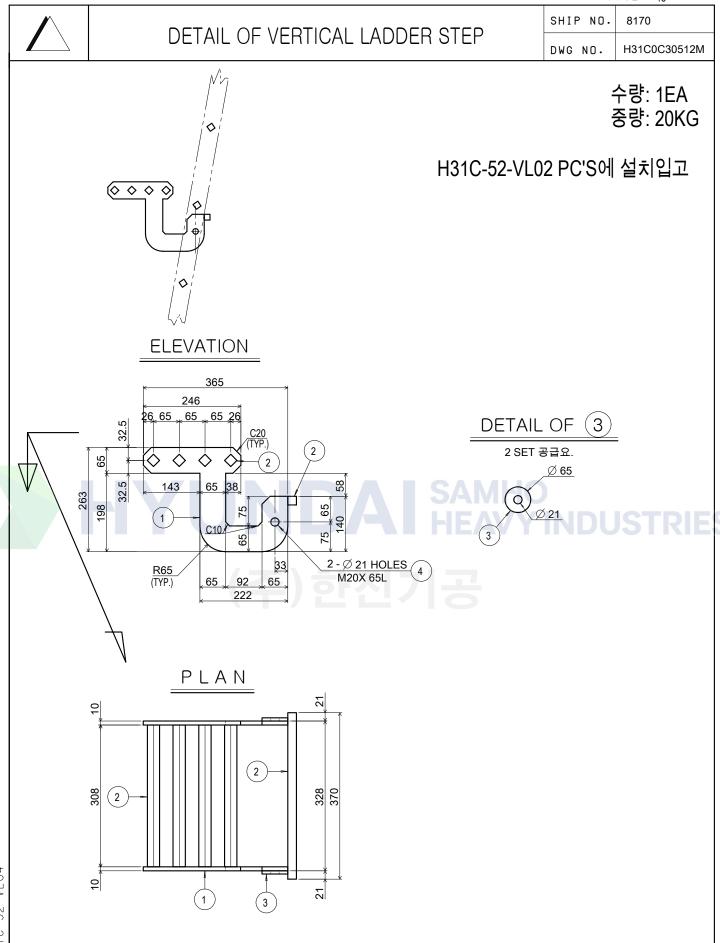




SHIP NO. 8170

VERTICAL LADDER 제작도 (H31C-52-VL02)

DWG NO. H31C0C30512M



4	HEX.BOLT & NUT	M20X 65L	SS400	2	1	
3	STEEL PLATE	8 t	SS400	2	1	
2	STEP	22 SQ BAR	SS400	5	5	
1	STEEL PLATE	10t	SS400	2	7	
NO.	DESCRIPTION	DIMENSION	MAT'L	Q'TY	WGT (kg)	

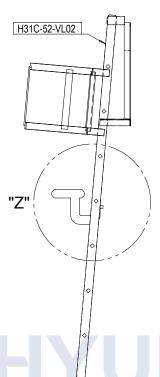
DETAIL OF VERTICAL LADDER STEP

SHIP NO. 8170

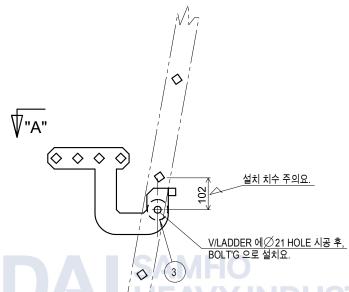
DWG NO. H31C0C30512M

ELEVATION

설치 정도 주의요. 설치시에 작동 유무 확인 후 BOL HOLE 시공요.



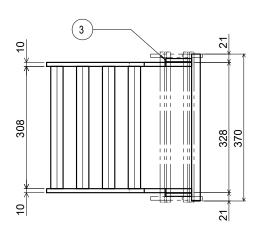
DETAIL OF "Z"

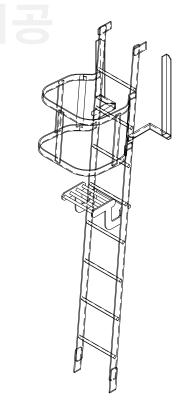


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VIEW "A"

NO.3 ITEM - V/LADDER와 STEP사이에 설치요





1. V/LADDER에 STEP을 설치하기 위한 HOLE 2 POINT 시공요. (HOLE SIZE = ∅21) 2. STEP과 V/LADDER사이에 ITEM ③ 을 넣고 BOLTING 조치요.

PLAN (49,070A/B)

