		PLAN HISTORY			
DATE	REV. NO.	DESCRIPTION	DRAWN	CHECKED	APPROVED
2023-01-12	0	*8158/59/60 호선 LADDER & PLATFORM(PIPE DUCT) 제작 도면으로 작성함.	김 남 곤	전 성 제	이 석 동
2023-01-16	001	8158/8159/8160호선 적용 *LADDER 수정 및 추가 로 인한 걔정 (SEE PAGE : 4, 15)	김 남 곤	전 성 제	이 석 동
	V	JNDAI SAMHO HEAVY		CTD	IEC
1		O I TIME HEAVY	INDU	3 I K	IE9
		(주)한진기공			

PAINTING	SPEC.	특기사항		SUPPLIER		
ITEM	II.	N SIDE & OUT SIDE		IN SIDE	OUT SIDE	
ALL	FINAL	SHOP PRIMER	PRIMER			

# **NOTE**

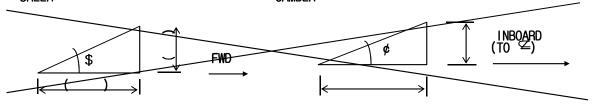
- 1. 본도는 MFG. OF CARGO HOLD LADDER & PLATFORM (PIPE DUCT) 제작 도면임.
- 2. 모서리 부분은 하기와 같이 GRINDING 할 것.



- 3. 용접은 특기외 하기 표 참조하고 연속 용접 할 것.
- \* THE LEG LENGTH OF FILLET WELD TO BE AS FOLLOWS.

WE 220 22000 OF 112221 W220 10 02 10 1020001										
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 (¢: 도면참조 )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 비닐테이프 부탁한 상태로 뒤집어 조립하고, 그 후면에 도어 또는 밴트(VENT) 이름을 매직펜으로 기록하여 입력하고, 야드에서 정방향 설치시 나사산의 위치가 불일치 되지 않도록 구멍의 간격을 잘 유지 하여 입고 할 것.(이름, 경고판 재질 : SUS316 & SUS316 SCREW BOLT)
- 9. 그리스 니쁠 : JIS B1575 A-PT1/8" BALL TYPE 허버 캡을 씌울 것.(재질 : 브라스(BRASS) 10. P. 0. R NO. : JT6

**742.3** KG/SHIP 11. TOTAL WEIGHT :

(표지 포함 15 매)

DEP'T.	SHIP NO.	SHIP TYPE
B126	8158 - 8160	7,900 TEU CLASS CONTAINER CARRIER
TEL.	부서명	도면명
2893	선 장 설 계 부	
승 인 검 도 작 성	이 석 동 전 성 제 김 남 곤	LADDER & PLATFORM 제작도 (PIPE HOLD)
		도면 번호 T24T0-B21-56BB -001
HYU	NDAI SAMHO HEAVY INDUSTRIES CO., LTD. SAMHO SHIPYARD, KOREA	날 짜 2023-01-12



# 製作仕樣書(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.

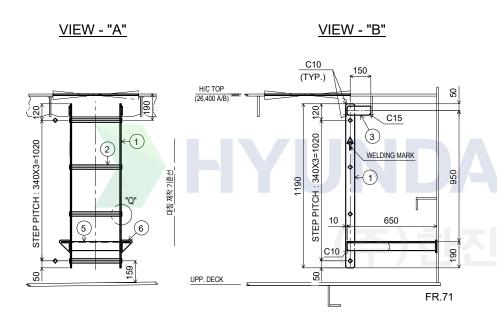
		ᅰ자프	: ## 1	_F 7   1 1 c	· <b>T</b>	SHIP	NO.	815	58 - 8160	01
	•	세약품		납기 LIS	<b>)</b>	DWG	i NO.	T24T(	0-B21-56BB	
P.O.R NO	SEQ NO	BLOCK	STAGE	MARK NO	DESCRIPTION	ON	PAINT CODE	Q'TY /SHIP	WEIGHT (KG/SET)	설치부서
JT6	1	C16AL(P)	BS	VL-301AP	VERTICAL LAI	DDER	P1	1	33.5	
	2	C16AL(S)	BS	VL-301AS	VERTICAL LAI	DDER	P1	1	33.5	
	3	C16AL(S)	BS	VL-302AS	VERTICAL LAI	DDER	P1	1	31.6	
	4	D327L(S)	BS	VL-303AS	VERTICAL LAI	DDER	P1	1	48.6	
	5	D327L(S)	BS	VL-304AS	VERTICAL LAI	DDER	P1	1	49.1	
	6	T24C0	CS	VL-305AP	VERTICAL LAI	DDER	P1	1	48.6	TB2
	7	D12AL	BS	VL-306AP	VERTICAL LAI	DDER	P1	1	46.0	
	8	T24C0	CS	VL-310AP	VERTICAL LAI	DDER	P1	1	46.0	TB2
	9	T24C0	CS	VL-307AS	VERTICAL LAI	DDER	P1	1	51.7	TB2
	10	T24C0	CS	VL-308AP	VERTICAL LAI	DDER	P1	1	42.6	TB2
	11	T24C0	CS	VL-309AS	VERTICAL LAI	DDER	P1	1	64.2	TB2
	12	T24C0	CS	VL-311AS	VERTICAL LAI	DDER	P1	1	48.6	TB2
	13	D32P0	C1	LE-301AP	LIFTING EY	/E	P1	3	1.5	DK1
	14	D32S0	C1	LE-301AS	LIFTING EY	/E	P1	2	1.5	DK1
	15	D327L(S)	BS	LE-302AS	LIFTING EV	/E	P1	1	16.0	IKIES
	16	D12AL	BS	LE-302AS	LIFTING E	/E	P1	1	16.0	
	17	T24C0	CS	LE-302AS	LIFTING EY	/E	P1	1	16.0	TB2
	18	D32BL(P)	BS	LE-303AP	LIFTING EY	/E	P1	1	15.0	
	19	T24C0	CS	LE-304AC	LIFTING E	/E	P1	1	17.0	TB2
	20	T24C0	CS	LE-305AC	LIFTING E	/E	P1	1	15.0	TB2
	21	T24C0	CS	LE-306AC	LIFTING E	/E	P1	1	17.0	TB2
	22	T24AL	BS	LE-307AC	LIFTING E	/E	P1	1	15.5	
	23	T24C0	CS	LE-308AC	LIFTING E	/E	P1	1	10.7	TB2
	24	C16AL(P)	BS	VL-312AP	VERTICAL LA	DDER	P1	1	26.3	
	25	C16AL(S)	BS	VL-312AS	VERTICAL LA	DDER	P1	1	26.3	

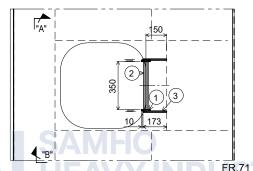
SHIP	NO.	8158 - 8160	02
DMG	ΝП	T24T0_C26_56BB	/

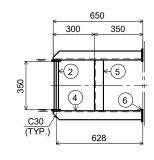
BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
C16AL(P)	VL-301AP	1	33.5	본도제작
C16AL(S)	VL-301AS	1	33.5	대칭제작

설치 BLOCK
C16AL(P), C16AL(S)

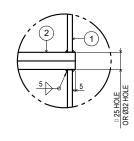
#### **PLAN**

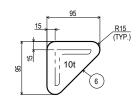






#### DETAIL OF "Q"





6	PAD	10t PLATE	SS400	2	2.0	
5	SUPPORT	65 X 65 X 8t E.A	SS400	1	2.8	
4	LUG	65 X 65 X 8t E.A	SS400	2	10.4	
3	LUG	65 X 9t F.B	SS400	2	1.6	
2	STEP	22 SQ.BAR	SS400	4	5.7	
1	SIDE FRAME	65 X 9t F.B	SS400	2	11.0	
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK

SHIP NO. 8158 - 8160 **DETAIL OF VERTICAL LADDER** DWG NO. T24T0-C26-56BB BLOCK NO. MARK NO. Q'TY WEIGHT(KG) REMARK NOTE 설치 BLOCK - STEP PITCH 가 335mm로 상이하오니 확인 하여 작업 하세요. C16AL(S) **VL-302AS** 31.6 본도제작 C16AL(S) D327L(S) VL-303AS 48.6 본도제작 D327L(S) VIEW - "A" VIEW - "B" PLAN (VIEW - "C") 150 "C" H/C TOP **DETAIL OF "Q"** (26,400 A/B) 150 C15 STEP PITCH: 335 X 3 = 1005 STEP PITCH: 335 X 3 = 1005 (3) WELDING MARK (2) "B" 10 500 20 (GAP.) 6 FR.71 (5) 4 135 UPPER DECK **PLAN** 180 500 PLAN (VIEW - "D") (VIEW - "E") (6) **DETAIL OF PAD** (4) 500 250 250 350 "Q' STEP PITCH: 335 X 6 = 2010 2240 (VL-303AS) STEP PITCH: 335 X 6 = 2010 350 |(2)<u>C30</u> (TYP.) 478 329 (TYP.) -(1) FR.71 FR.71 350 08158-T24T0C2656BB-003 6 PAD 10t PLATE 2/2 SS400 2.0 / 2.0 5 SUPPORT 65 X 65 X 8t E.A SS400 1/1 2.8 / 2.8 C30 275 (4) 8.0 / 13.2 4 LUG 65 X 65 X 8t E.A SS400 2/4 20 22 LUG 65 X 9t F.B 3 SS400 2/0 1.6 / -NO.1 ADD.STR. 22.736 (A/B) 2 STEP 22 SQ.BAR 4/7 5.8 / 10.0 SS400

FR.71

SIDE FRAME

DESCRIPTION

65 X 9t F.B

SPEC.

SS400

MAT'L

2/2

Q'TY/SET

11.4 / 20.6

WEIGHT(KG)

10

20

**▼**"D"

362

001

2ND DECK 20,144 (A/B) 10

20

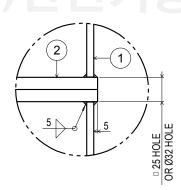
FR.71

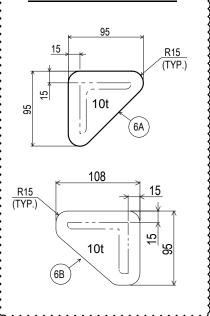
362

**1**75 187

001

190





4	PAD	10t PLATE	SS400	4	4.0	
3	LUG	65 X 9t F.B	SS400	4	14.1	
2	STEP	22 SQ.BAR	SS400	7	10.0	
1	SIDE FRAME	65 X 9t F.B	SS400	2	21.0	
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK

(6B)

20

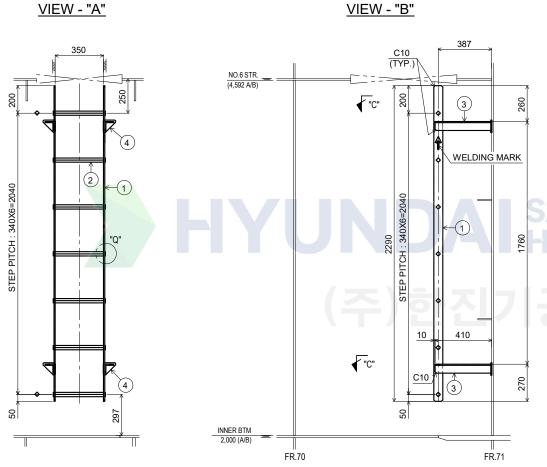
SHIP NO. 8158 - 8160 05

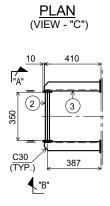
DWG NO. T24T0-C26-56BB

BLOCK NO. MARK NO. Q'TY WEIGHT(KG) REMARK T24C0 VL-305AP 1 48.6 본도제작

설치 BLOCK

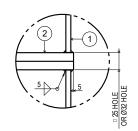
T24C0

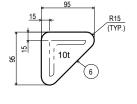




HEAVY INDUSTRIES

#### DETAIL OF "Q"





4	PAD	10t PLATE	SS400	4	4.0	
3	LUG	65 X 65 X 8t E.A	SS400	4	13.6	
2	STEP	22 SQ.BAR	SS400	7	10.0	
1	SIDE FRAME	65 X 9t F.B	SS400	2	21.0	
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK

SHIP NO. 8158 - 8160

DWG NO. T24T0-C26-56BB

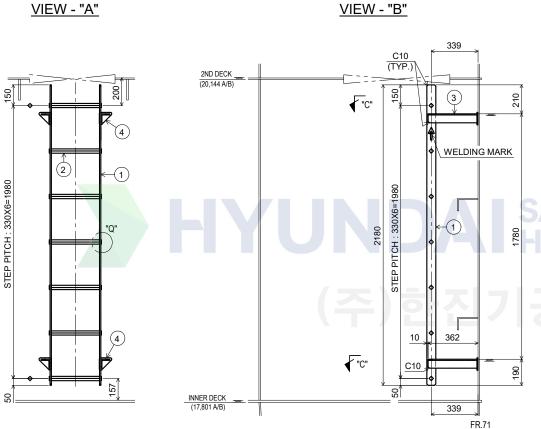
설치 BLOCK

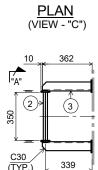
D12AL T24C0

BLOCK NO. MARK NO. Q'TY WEIGHT(KG) REMARK D12AL VL-306AP 46.0 본도제작 T24C0 VL-310AP 46.0 본도제작

NOTE

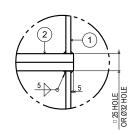
- STEP PITCH 가 330mm로 상이하오니 확인 하여 작업 하세요.

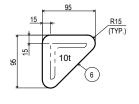




**€**"B"

#### **DETAIL OF "Q"**





4	PAD	10t PLATE	SS400	4	4.0	
3	LUG	65 X 65 X 8t E.A	SS400	4	12.0	
2	STEP	22 SQ.BAR	SS400	7	10.0	
1	SIDE FRAME	65 X 9t F.B	SS400	2	20.0	
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK

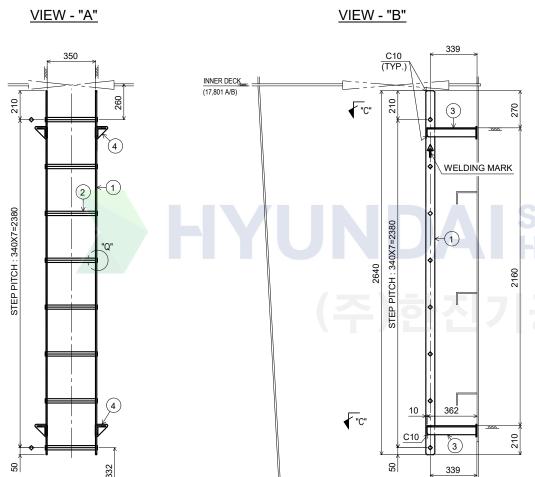
SHIP NO. 8158 - 8160 07

DWG NO. T24TO-C26-56BB

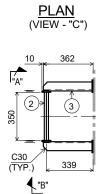
BLOCK NO. MARK NO. Q'TY WEIGHT(KG) REMARK
T24C0 VL-307AS 1 51.7 본도제작

T24C0

설치 BLOCK

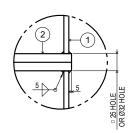


NO.41 LONGL. (14,845 A/B)

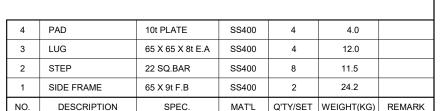


EAVY INDUSTRIES

#### DETAIL OF "Q"



#### **DETAIL OF PAD**



FR.71

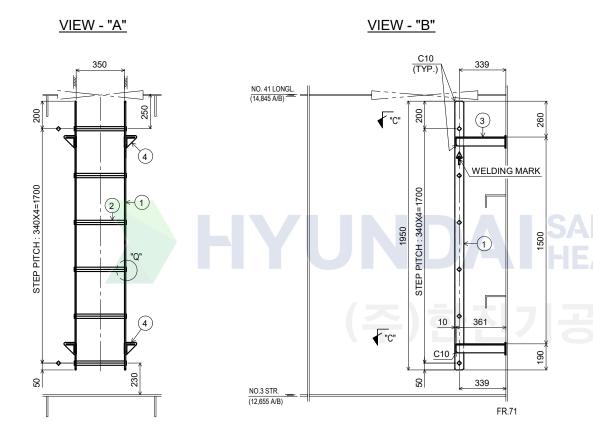
SHIP NO. 8158 - 8160 08

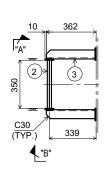
DWG NO. T24TO-C26-56BB

BLOCK NO. MARK NO. Q'TY WEIGHT(KG) REMARK
T24C0 VL-308AP 1 42.6 본도제작

T24C0

설치 BLOCK

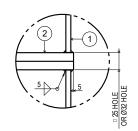




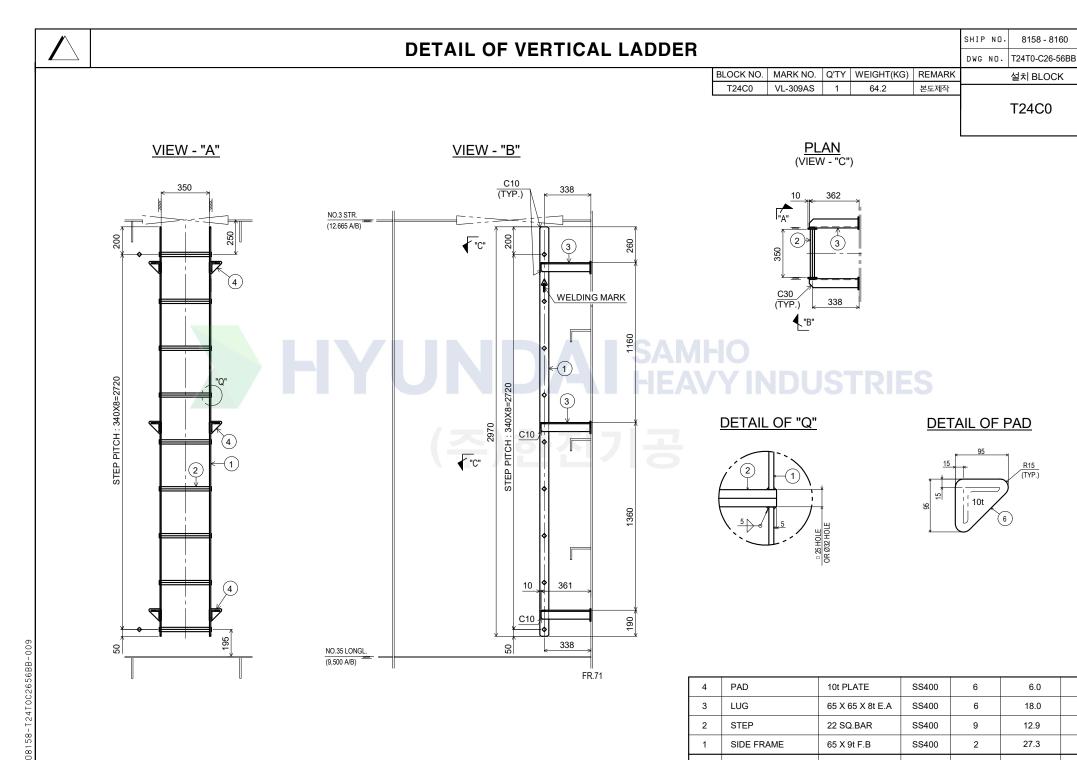
PLAN (VIEW - "C")

INDUSTRIE

#### **DETAIL OF "Q"**







A3 (420×297)

DESCRIPTION

SPEC.

MAT'L

Q'TY/SET

WEIGHT(KG)



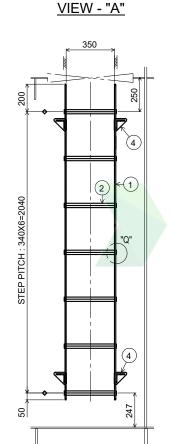
SHIP NO. 8158 - 8160 10

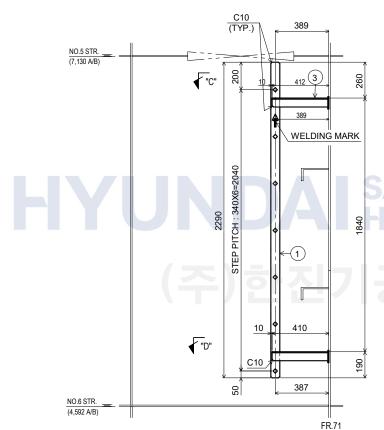
DWG NO. T24TO-C26-56BB

BLOCK NO. MARK NO. Q'TY WEIGHT(KG) REMARK
T24C0 VL-311AS 1 48.6 본도제작

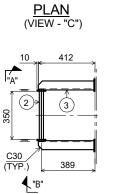
T24C0

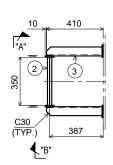
설치 BLOCK





VIEW - "B"

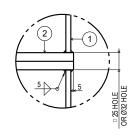




PLAN (VIEW - "D")

# EAVY INDUSTRIES

#### **DETAIL OF "Q"**







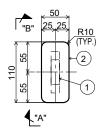
#### **DETAIL OF LIFTING EYE**

SHIP	NO.	8158 ~ 8160	11
0110		T24T0 C26 F6DD	/

BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK	Г
D32P	LE-301AP	3	1.5	본도제작	
D32S	LE-301AS	2	1.5	본도제작	

BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
D327L(S)	LE-302AS	1	16.0	본도제작
D12AL	LE-302AS	1	16.0	본도제작
T24C	LE-302AS	1	16.0	본도제작

#### <u>PLAN</u>

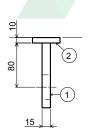


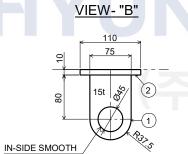
# <u>PLAN</u> C45 675

#### VIEW-"A"

725

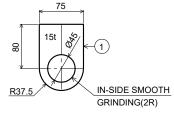
VIEW- "A"





	k		725			э.
	50	280	<del>*</del>	395	5	>
<u>C45</u>		DU	ST	2	ES	4
1)		126			30°	228
			618		25/	5





	۴	95			. 9
	*	15		<b>→</b>	15
96	15	10t	105	15	10

105	12	10t	4	
1	.0			

							3, 4	PAD	10t PLATE	SS400	2	1.0	
2	PAD	10t PLATE	SS400	1	0.5		2	SUPPORT	75X75X9t E.A	SS400	2	13.0	
1	EYE PLATE	15t PLATE	SS400	1	1.7		1	EYE PLATE	15t PLATE	SS400	1	1.0	
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK	NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK



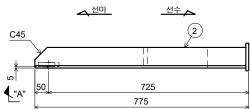
#### **DETAIL OF LIFTING EYE**

SHIP NO. 8158 ~ 8160 DWG NO. T24T0-C26-56BB

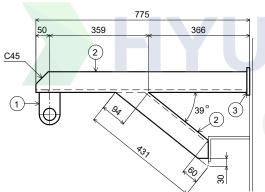
BLOCK NO. MARK NO. Q'TY WEIGHT(KG) REMARK T24C LE-304AC 17.0 본도제작

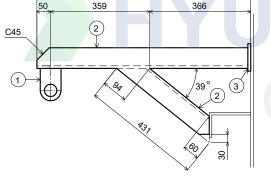
MARK NO. Q'TY WEIGHT(KG) REMARK D32BL(P) LE-303AP 15.0 본도제작

### <u>PLAN</u>

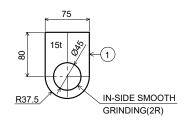


#### VIEW- "A"

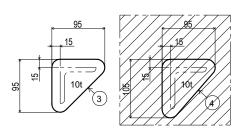




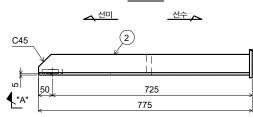
#### **DETAIL OF PAD**



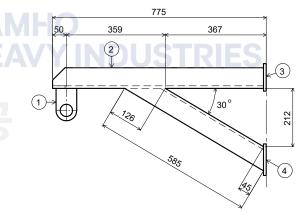
#### **DETAIL OF PAD**



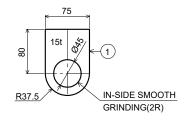
## **PLAN**

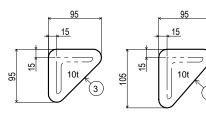


#### VIEW- "A"

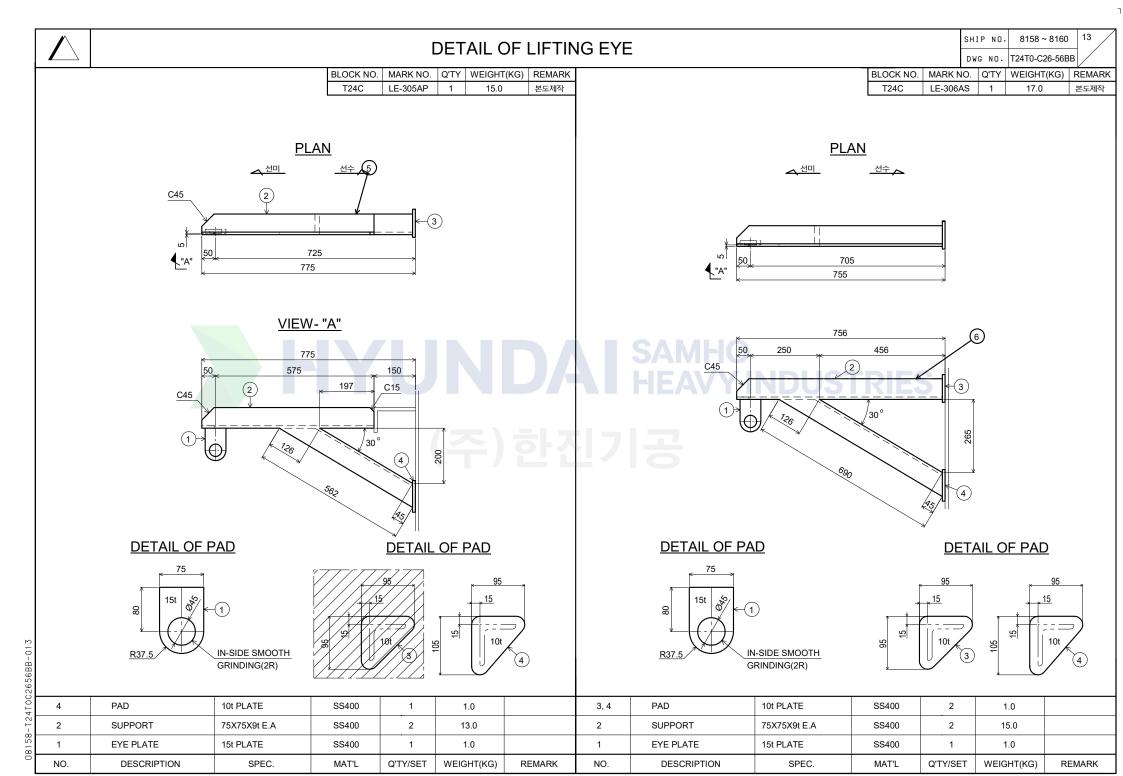


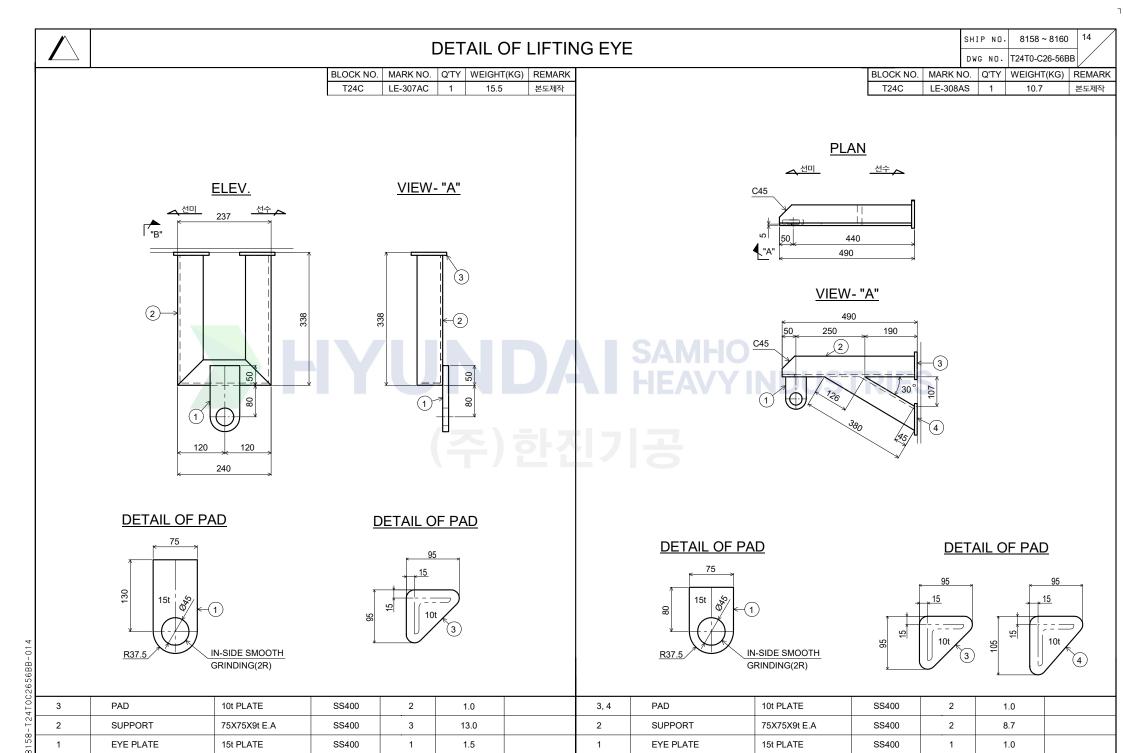
#### **DETAIL OF PAD**





3	PAD	10t PLATE	SS400	1	1.0		3, 4	PAD	10t PLATE	SS400	2	1.0	
2	SUPPORT	75X75X9t E.A	SS400	2	14.0		2	SUPPORT	75X75X9t E.A	SS400	2	15.0	
1	EYE PLATE	15t PLATE	SS400	1	1.0		1	EYE PLATE	15t PLATE	SS400	1	1.0	
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK	NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK





NO.

DESCRIPTION

SPEC.

MAT'L

Q'TY/SET

WEIGHT(KG)

REMARK

NO.

DESCRIPTION

SPEC.

MAT'L

Q'TY/SET

WEIGHT(KG)

001

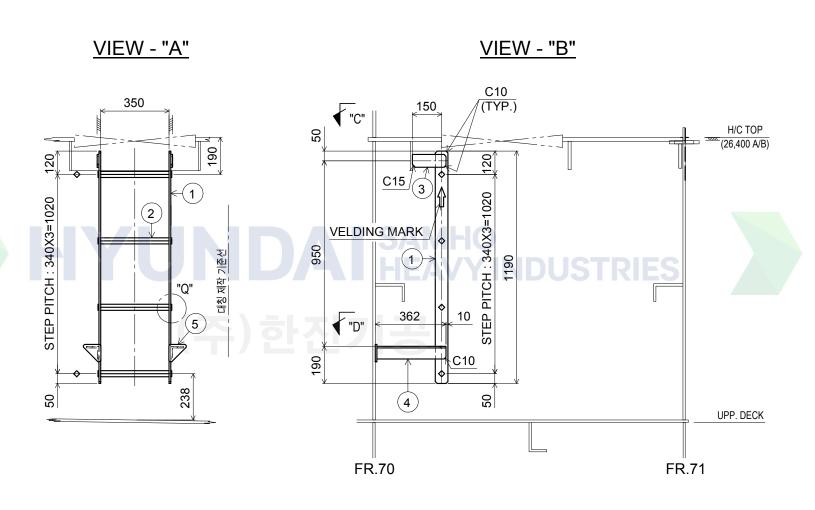
# **DETAIL OF VERTICAL LADDER**

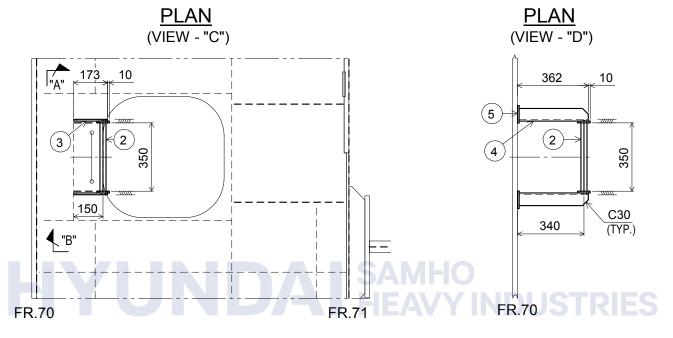
SHIP NO. 8158 - 8160 15

DWG ND. T24T0-C26-56BB 설치 BLOCK

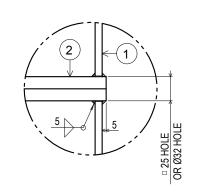
> C16AL(P) C16AL(S)

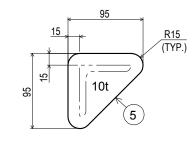
BLOCK NO.	MARK NO.	Q'TY	WEIGHT(KG)	REMARK
C16AL(P)	VL-312AP	1	26.3	대칭제작
C16AL(S)	VL-312AS	1	26.3	본도제작





# DETAIL OF "Q"





5	PAD	10t PLATE	SS400	2	2.0	
4	LUG	65 X 65 X 8t E.A	SS400	2	6.0	
3	LUG	65 X 9t F.B	SS400	2	1.6	
2	STEP	22 SQ.BAR	SS400	4	5.7	
1	SIDE FRAME	65 X 9t F.B	SS400	2	11.0	
NO.	DESCRIPTION	SPEC.	MAT'L	Q'TY/SET	WEIGHT(KG)	REMARK