



LDWP AL. Working Platform System Testing Report

Testing Report Number: FT160510-RR

Report Issue Date: 05 JUL 2016

Client

ALL SAFEWORK Pty Ltd

**22 CREMONRE STREET
BALWYN VIC 3103 AUSTRLIA**

A handwritten signature in black ink, appearing to read 'Joon Man Yoo', written over a light grey rectangular background.

Joon Man Yoo

Professional Mechanical Engineer

A handwritten signature in black ink, appearing to be a corporate name, written over a light grey rectangular background.

Corporate Signatory

FABTECH:

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Mail: woonryongjee@yahoo.com**

SCOPE

This report included following LDWP Aluminum Working Platform System of ALL SAFEWORK Pty LTD and Independent Design Assessment and Testing Carried out.

REPORT NO. : FT160510-ASW

LOAD TESTING OF ALUMINUM WORKING PLATFORM SYSTEM

DATE OF TESTING : 10 MAY 2016

DATE OF REPORT : 05 JULY 2016

CLIENT MR PAUL CRANAGE
ALL SAFEWORK Pty Ltd
22 CREMONRE STREET, BALWYN, VIC 3103

COMPONENTS

- 1) Standard Dropper including Head & Inner Assy, Z-12024, Z-11000, Z-20000
- 2) Aluminum Platform 1.5Mtr Arm including Accessories, Z-13015, Z-41000, Z-31000
- 3) Corner Standard Z-51050, Z-52050,-53000,
- 4) Aluminum Corner Arm 2.0Mtr including Accessories, Z-13020, Z-41000,Z-31000C
- 5) Aluminum Planks, ZPLANK5,4,3, and 2
- 6) Guardrail Post, SHS33x33x2.0x1710mm, 4-Clamps, Z-30000
- 7) Handrail Tube, SHS30x30x2.0, 5.0Mtr,

1. INTRODUCTION

FABTECH was engaged to perform an independent Design Assessment and Testing above Systems.

- 1-1. Working Platform Structure System were tested to determine its compliance to the requirements of AS/NZS 1576.1(2010) Scaffolding Part 1 General Requirement and AS6001(1999) Working Platform for Housing Construction.
- 1-2. The Guardrail Post and Top Rail were tested to determine its compliance to the requirements of AS/NZS 4994.1(2009) Temporary Edge Protection Part 1, General Requirements, Section 4, Appendix A, B and C.

LDWP AL Working Platform System is designed to provide safety work area and mitigate roof workers from falling and consequently designed to withstand impact only.

The tests of the system were conducted at Factory #2, Changwon-si, Korea and the testing was witnessed by FABTECH Professional Mechanical Engineer, Joon Man Yoo on 10 May 2016.

Testing was restricted to outward and inward static loading of a Top Rail and Static Load Test of LDWP AL Working Frame.

2. CONCLUSIONS

- 2-1. The components of the described LDWP AL Working Platform System has been tested as required by AS/NZS 1576.1(2010) and cannot find any detached or suffering structural failure. Frame structure test for 1.5m Platform Arm and 2.2m Corner Arm, were conducted with 339 Kgf as static load.
- 2-2. The Guardrail Post and Top Rail also were able to sustain the following tests specified in AS/NZS 4994.1(2009) without exceeding the specified deflection limits, becoming detached or suffering structural failure.
 - 2-2-1. Appendix A; For Frame Structure test, Static load 3390N were applied on 1.5m Platform Arm and 2.2m Corner Arm and the result was passed.
 - 2-2-2. Appendix B; Horizontal outward static loads (600 N) applied on top rail position of a central post
 - 2-2-3. Appendix B; Horizontal inward static loads (600 N) applied on top rail position of a central post,
 - 2-2-4. Appendix C; Dynamic test was not applied.

3. TESTING PROCEDURE

3.1 Dimensional Check

The critical dimensions of each component of each system were measured. Measured values were then checked against those shown on the manufacturer's drawings attached in Appendix 1. This is important to ensure that the components are manufactured to the designer's standard as variations on section thickness and weld procedures may decrease the capability of the system to perform its task.

3.2 Static Testing

The Static tests required a means of applying static test loads.

A digital weight used to test loads during the tests.

The digital weight is show on 62kgs in Figure 1.

(Specification required 60kg)



Figure 1. 60 kgf Weight for Rai I



Figure 2 339 kgf Weight for Platform Arm

3.3 Acceptance Criteria

3.3.1. Static Testing of posts (Appendix A of AS/NZS 4994.1:2009)

The standard gives the following acceptance criteria for the static testing of platform arms and Top Rail.:

- a) Under the maximum test load of 3,390 N, the platform arm and any part of the supporting frame structure shall not suffer structural failure.
- b) Under a proof load of 600 N, Inwards or outwards, the deflection of Top Rail shall not reach 101mm.

3.4 Specifications

3.4.1. Frame Structure Test

AS/NZS 1576.1(2010) Scaffolding Part 1: General requirement
AS 6001(1999) Working Platform for Housing Construction

3.4.2. Top Rail Test

AS 4994.1(2009) Temporary Edge Protection, Part1: General Requirements

4. RESULTS

4.1 Dimensional check

All components of fabrication and assembly systems were manufactured in “Correct” accordance with drawings and within allowance required by AS/NZS4994.1(2009) Section 2 and Section 3.

4.2 The results for the structure test for LDWP are summarized in Table I.
The deflection limits applicable to each test are given in the Table I

4.3 The result of the Top Rail Test conducted on summarized in Table II.

Table I : Results for Frame Structure Test

APPENDIX	Test Description	Deflection Limits (mm)	Frame Loading		Remark
			Deflection (mm)	Pass/Fail	
A	Platform Arm 1.5m Static; Horizontal outward 3390 N	Not Specified	40	OK	
B	Corner Arm 2.2m Static; Horizontal outward 3390 N	Not Specified	70	OK	

Note

- 1. The above values of deflection measured after 30 minutes times of interval.**
- 2. We tested 339 kgf that is 1.5 times of SWL 225kg (2.2KN) specified in AS/NZS 1576.1**
- 3. The duty classification of working platform in AS 6001(1999) is 225 kg per Bay**

Table II : Results for Top Rail Test

APPENDIX	Test Description	Deflection Limits (mm)	Mid Span of Top Rail		Remark
			Deflection (mm)	Pass /Fail	
A	Top Rail Static; Horizontal outward 600 N	101	50	pass	
	Top Rail Static; Horizontal inward 600 N	101	65	pass	
B	Top Rail Dynamic; Horizontal outward	Not applicable		According to AS/NZS 4994.1(2009) Section 4 Top Rail Test	

Note

- 1. The above values of deflection measured after 30 minutes times of interval.
(Specification required not less than 300 ±1 Second)**
- 2. Rail test made independently under condition of Max. 3mtr Post interval.**

The assemblies tested were able to sustain the specified test loads without exceeding the specified deflection limits, becoming detached or suffering structural failure.



Figure 3- Working Platform Testing Jig



Figure 4- Working Platform Testing Jig



Figure 5- Platform Corner 2.2 meter Arm



Figure 5-1 Upper Corner Swivel



Figure 5-2 Lower Corner Swivel



Figure 6- 1.5 meter Platform Arm Static Loading 339 KGF



Figure 7- Deflection 40mm measured at 339 KGF



Figure 8- Static Load 339 KGF at 2.2 meter Corner Arm



Figure 9- 70mm deflection measured at 2.2meter Corner Arm



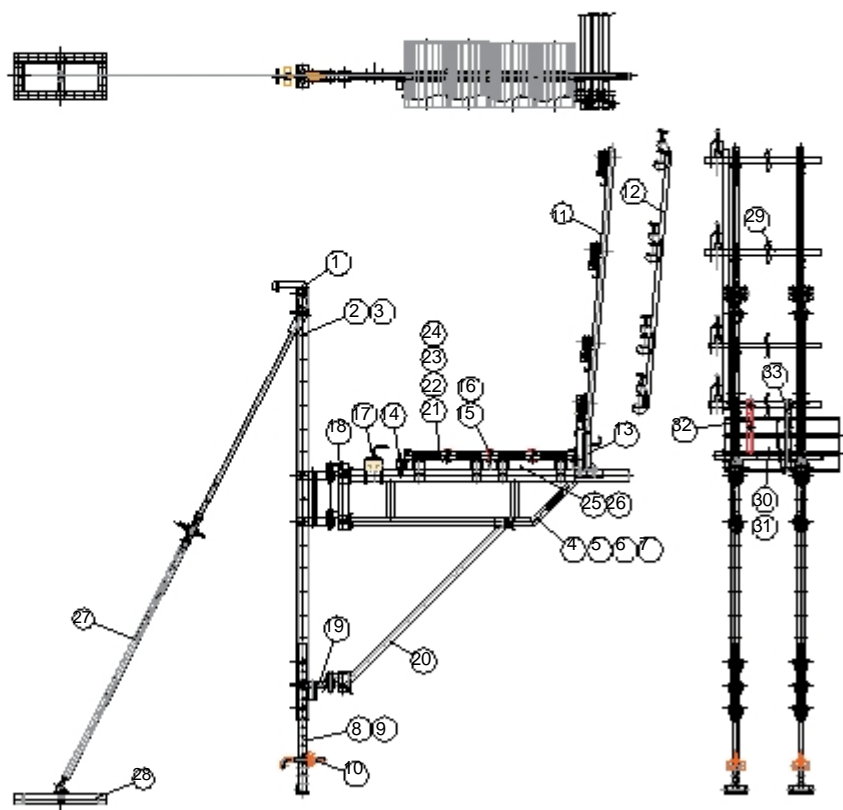
Figure 10- Static Load 60kgf applied at center of Top Rail Span,



Figure 11 -50mm deflection measured at center of Top Rail Span

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Working Platform Assembly (Swivel Corner System)

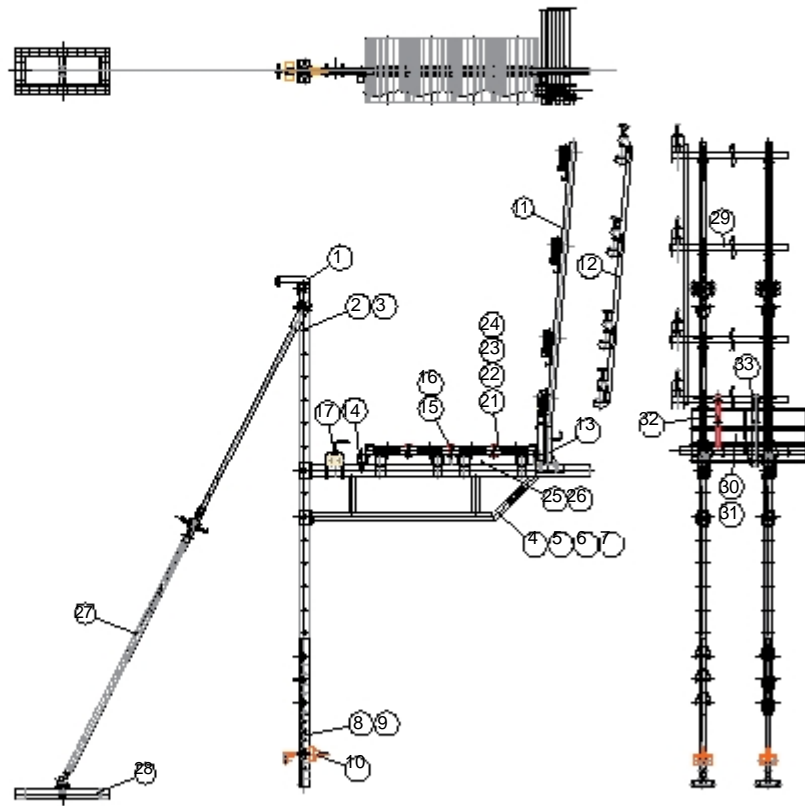


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29	Roll	1	SPSR40D	SHS30x30x2.0bx4000	17.03 kg	2-94000	
28	Brace Shoes	1	SS400	250Wx500L	4.66 kg	2-81000	
27	Telescopic Back Brace	1	SPSR40D	CHG34x25	6.84 kg	2-80000	
26	AL-3 Plank Spacer	1	ABD61-T6	US 50x50x3.5x680L	1.41 kg	2-73000	
25	AL-2 Plank Spacer	1	ABD61-T6	US 50x50x3.5x450L	1.08 kg	2-72000	
24	AL-Plank	1	ABD61-T6	225*50*5000L	17.03 kg	2-65000	
23	AL-Plank	1	ABD61-T6	225*50*4000L	13.65 kg	2-64000	
22	AL-Plank	1	ABD61-T6	225*50*3000L	10.27 kg	2-63000	
21	AL-Plank	1	ABD61-T6	225*50*2000L	6.90 kg	2-62000	
20	Corner Arm Stay	1	ABD61-T6	SHS40x40x3.5x1237GL	1.03 kg	2-53000	
19	Corner Swivel Lower	1	ABD61-T6		6.80 kg	2-52000	
18	Corner Swivel Upper	1	ABD61-T6		6.90 kg	2-51000	
17	Internal Roll Clamp	1	SS400		1.20 kg	2-43000	
16	3rd Single Plank Holder	1	SS400	50H	0.12 kg	2-42050	
15	3rd Double Plank Holder	1	SS400	100H	0.18 kg	2-42010	
14	Plank Clamp, single/double	1	SS400	100Hx50H, Double	0.48 kg	2-41000	
13	Corner Post Base Bracket	1	SS400		0.90 kg	2-310000	
12	Fixed Corner Post for 4 Rail	1	SPSR40D	SHS25x25x2.0x1400L	3.47 kg	2-34000	
11	Full Post, 4 Rails	1	SPSR40D	SHS33x33x2.0x1719L	5.34 kg	2-30000	
10	Inner Clamp	1	S20C	Z Bar*17*250L	0.96 kg	2-21025	
09	Standard Inner. OBM	1	SPSR40D	RHS60x30x2.3x800L	2.35 kg	2-21080	
08	Standard Inner Assembly	1	SPSR40D	RHS60x30x2.3x800L	3.31 kg	2-20000	
07	Platform Arm 2.2W	1	ABD61-T6	250Hx2200L	8.28 kg	2-13022	
06	Platform Arm 2.0W	1	ABD61-T6	250Hx2000L	5.72 kg	2-13020	
05	Platform Arm 1.5W	1	ABD61-T6	250Hx1500L	4.65 kg	2-13015	
04	Platform Arm 0.9W	1	ABD61-T6	250Hx900L	2.96 kg	2-13090	
03	Standard 3.0W	1	ABD61-T6	RHS60*40*4.25*3000L	6.67 kg	2-12030	
02	Standard 2.7W	1	ABD61-T6	RHS60*40*4.25*2700L	4.72 kg	2-12027	
01	Standard Head Assembly	1	SS400		1.18 kg	2-11000	#2

NO.	DESCRIPTION	Q'TY	MATERIAL	DIMENSION	WGHT	PART NO.	REMARK
APPD BY:		UNIT	MM	SUBJECT	PLATFORM SYSTEM		
CHKD BY:	WR JEE	SCALE	1 / 1	TITLE	Corner System, GA		
DSND BY:		PROJ.	3RD ANGLE				
DRWN BY:	KH CHOI	DATE	07JUN07				
ALL SAFEWORK Pty Ltd				REF. NO		SHEET NO	OF
				DWG NO	Z-00001-C	FILE	NAME

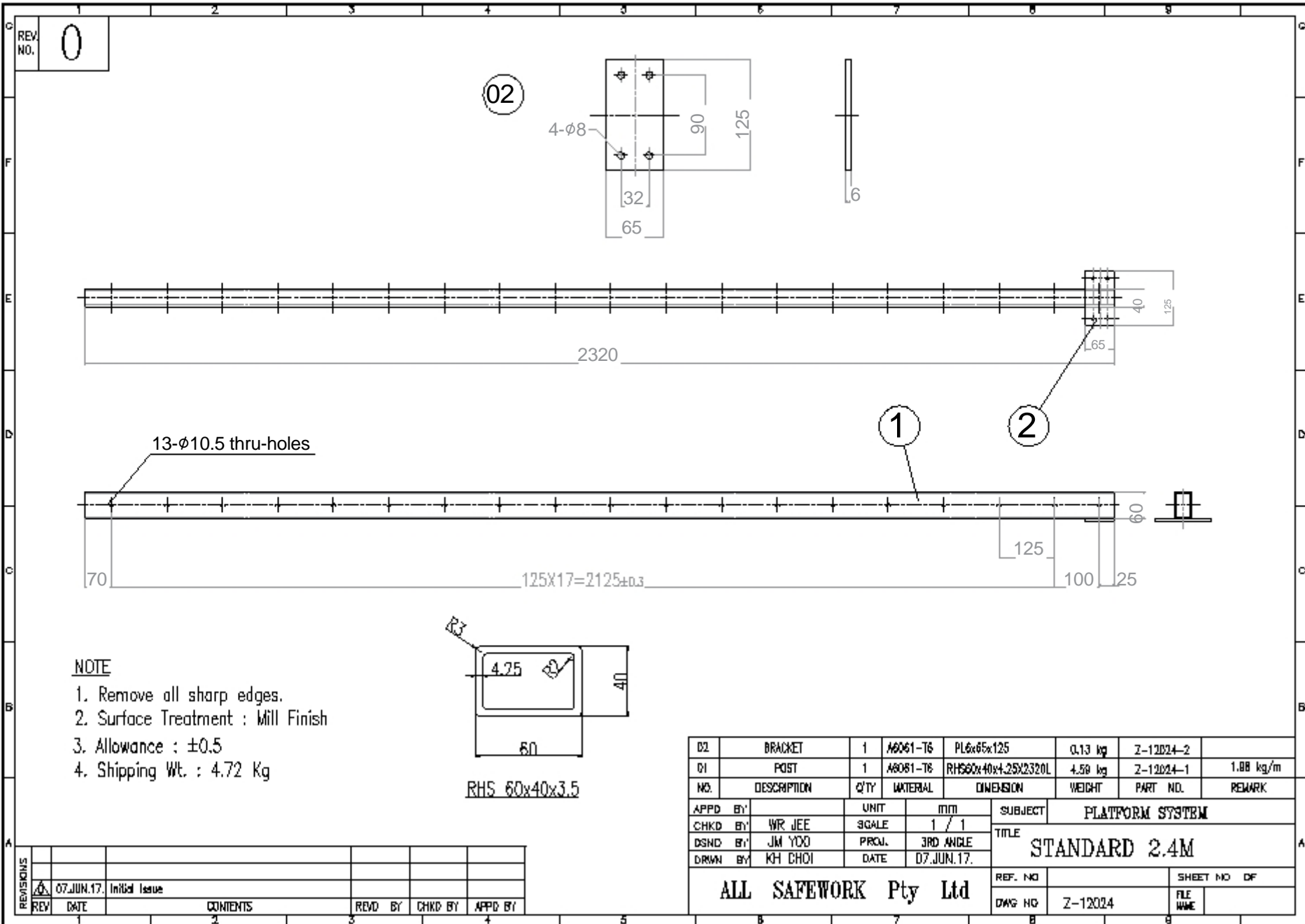
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Working Platform Assembly (Fixed Type)



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29	Rail	1	SPSR400	SHS30x30x2.0x4000	11.03 kg	2-84000	
28	Brace Shoes	1	SS40D			2-61000	
27	Telescopic Back Brace	1	STK400	CHS34x25		2-80000	
26	AL-3 Plank Spacer	1	A6061-T6	SHS30x30x2.0x4000		2-79000	
25	AL-2 Plank Spacer	1	A6061-T6	SHS30x30x2.0x4000		2-79000	
24	AL-Plank	1	A6061-T6	225*50*5000L	17.03 kg	2-85000	
23	AL-Plank	1	A6061-T6	225*50*4000L	13.85 kg	2-64000	
22	AL-Plank	1	A6061-T6	225*50*3000L	10.27 kg	2-63000	
21	AL-Plank	1	A6061-T6	225*50*2000L	6.90 kg	2-62000	
17	Internal Rail Clamp	1	SS40D		1.20 kg	2-43000	
16	3rd Single Plank Holder	1	SS40D	50H	0.12 kg	2-42050	
15	3rd Double Plank Holder	1	SS40D	100H	0.18 kg	2-42010	
14	Plank Clamp, single/double,	1	SS40D	100Hx50H, Double	0.48 kg	2-41000	
13	Post Base Bracket C.S	1	SS40D		0.90 kg	2-31000	
12	Fixed Corner Post for 4 Rail	1	SPSR400	SHS20x20x2.0x1400L	3.47 kg	2-34000	
11	Full Post, 4 Rails	1	SPSR400	SHS33x33x2.0x1718L	5.34 kg	2-30000	
10	Inner Clamp	1	S20C	Z Bar#17*250L	0.96 kg	2-21025	
09	Standard Inner. 0.8M	1	SPSR400	RHS60x30x2.3x800L	2.75 kg	2-21080	
08	Standard Inner Assembly	1	SPSR400	RHS60x30x2.3x800L	3.31 kg	2-20000	
07	Platform Arm 2.2M	1	A6061-T6	250Hx2200L	6.34 kg	2-13022	
06	Platform Arm 2.0M	1	A6061-T6	250Hx2000L	5.72 kg	2-13020	
05	Platform Arm 1.5M	1	A6061-T6	250Hx1500L	4.65 kg	2-13015	
04	Platform Arm 0.9M	1	A6061-T6	250Hx900L	2.96 kg	2-13090	
03	Standard 3.0M	1	A6061-T6	RHS60*40*4.5*3000L	6.34 kg	2-12030	
02	Standard 2.4M	1	A6061-T6	RHS60*40*4.5*2700L	4.93 kg	2-12024	
01	Standard Head Assembly	1				2-11000	

NO.	DESCRIPTION	Q'TY	MATERIAL	DIMENSION	WGHT	PART NO.	REMARK
APPD BY:		UNIT	MM	SUBJECT	PLATFORM SYSTEM		
CHKD BY:	WR JEE	SCALE	1 / 1	TITLE	Fixed System, GA		
DSND BY:	JM YOO	PROJ.	3RD ANGLE				
DRWN BY:	KH CHOI	DATE	07JUN17				
ALL SAFEWORK Pty Ltd				REF. NO		SHEET NO	OF
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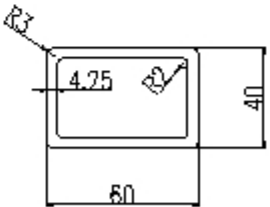
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NOTE

1. Remove all sharp edges.
2. Surface Treatment : Mill Finish
3. Allowance : ±0.5
4. Shipping Wt. : 4.72 Kg



RHS 60x40x3.5

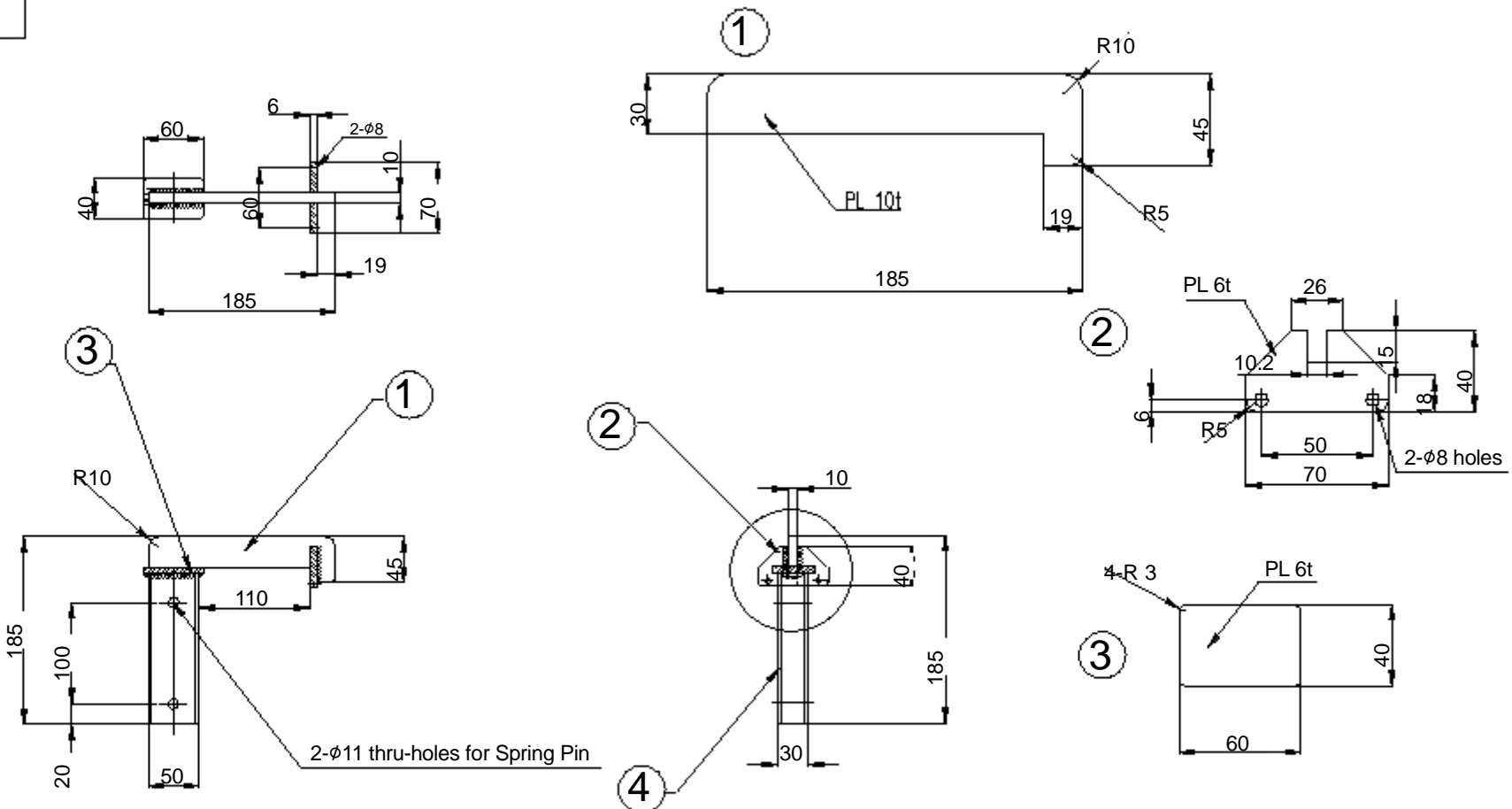
NO.	DESCRIPTION	QTY	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
02	BRACKET	1	A6061-T6	PL6x65x125	0.13 kg	Z-12D24-2	
01	POST	1	A6061-T6	RHS60x40x4.25x2320L	4.59 kg	Z-12D24-1	1.88 kg/m

APPD BY:	UNIT	MM	SUBJECT	PLATFORM SYSTEM
CHKD BY: WR JEE	SCALE	1 / 1	TITLE	STANDARD 2.4M
DSND BY: JM YOO	PROJ.	3RD ANGLE		
DRWN BY: KH CHOI	DATE	07.JUN.17.		

REF. NO.	SHEET NO.	OF
DWG NO.	Z-12024	FILE NAME

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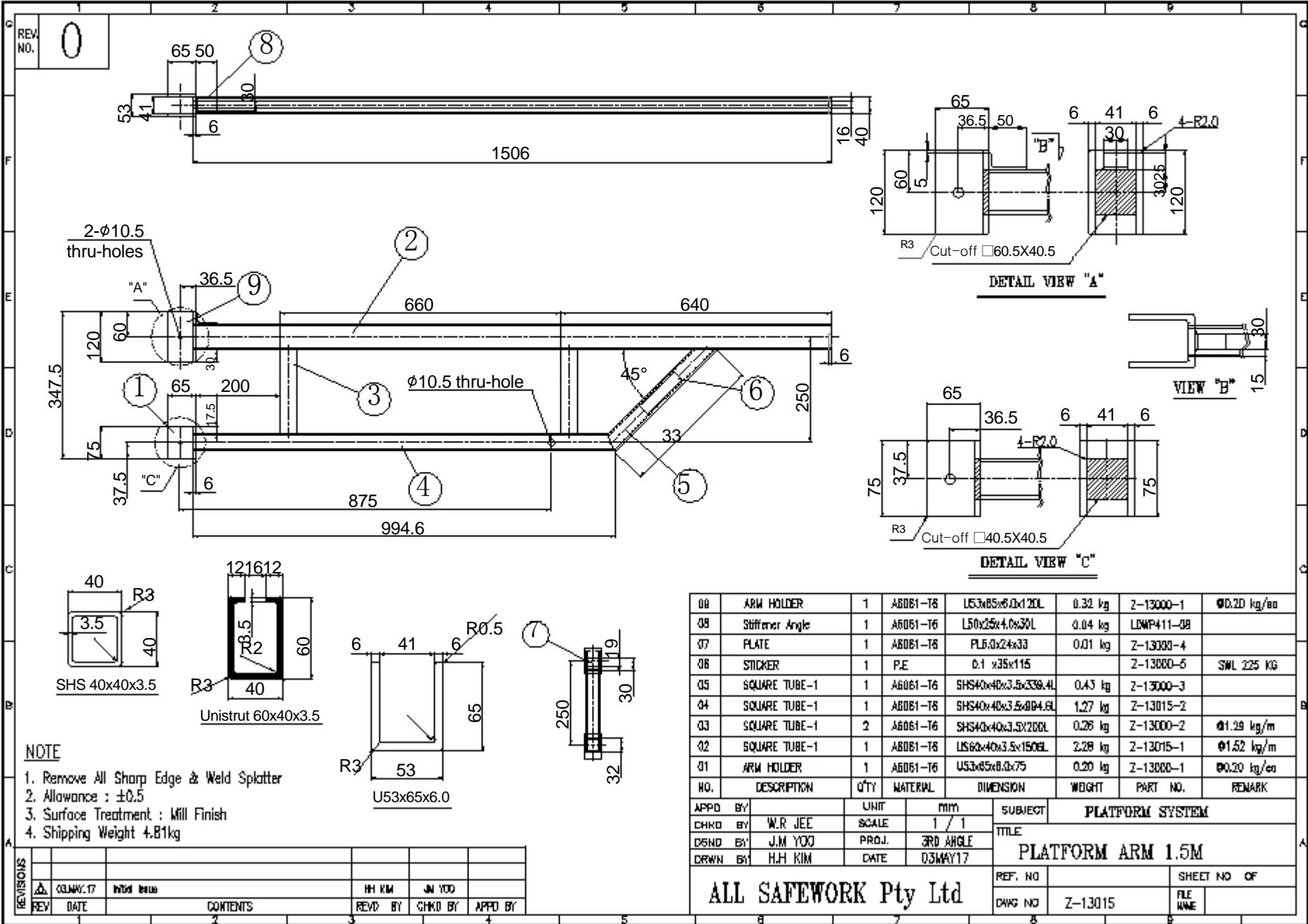
NOTE
 1.Surface Treatment : Electro-Zinc Plating
 2.Allowance : ±0.5
 3.All Fillet Welding 5mm , unless noted otherwise.
 4.Shipping Wt. : 1.16 kg

NO.	DESCRIPTION	QTY	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
D4	Standard Spigot	1	STK400	RHS 50x30x3.0x149L	0.48 kg	Z-11000-4	
D3	Connection Plate	1	SS400	PL 6x40x60	0.11 kg	Z-11000-3	
D2	Head Fixing Plate	1	SS400	PL 6x40x70	0.11 kg	Z-11000-2	
D1	Head Top Plate	1	SS400	PL10x45x185	0.45 kg	Z-11000-1	

APPD BY:	UNIT	MM	SUBJECT	PLATFORM SYSTEM
CHKD BY: WR JEE	SCALE	1 / 1	TITLE	STANDARD HEAD ASS'Y
DSND BY: JM YOO	PROJ.	3RD ANGLE		
DRWN BY: KH CHOI	DATE	D7.JUN.17.		

ALL SAFEWORK Pty Ltd	REF. NO	SHEET NO OF
	DWG NO	FILE NAME
	Z-11000	Z-11000-A

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Δ	07.JUN.17	Initial Issue	JM YOO	WR JEE	



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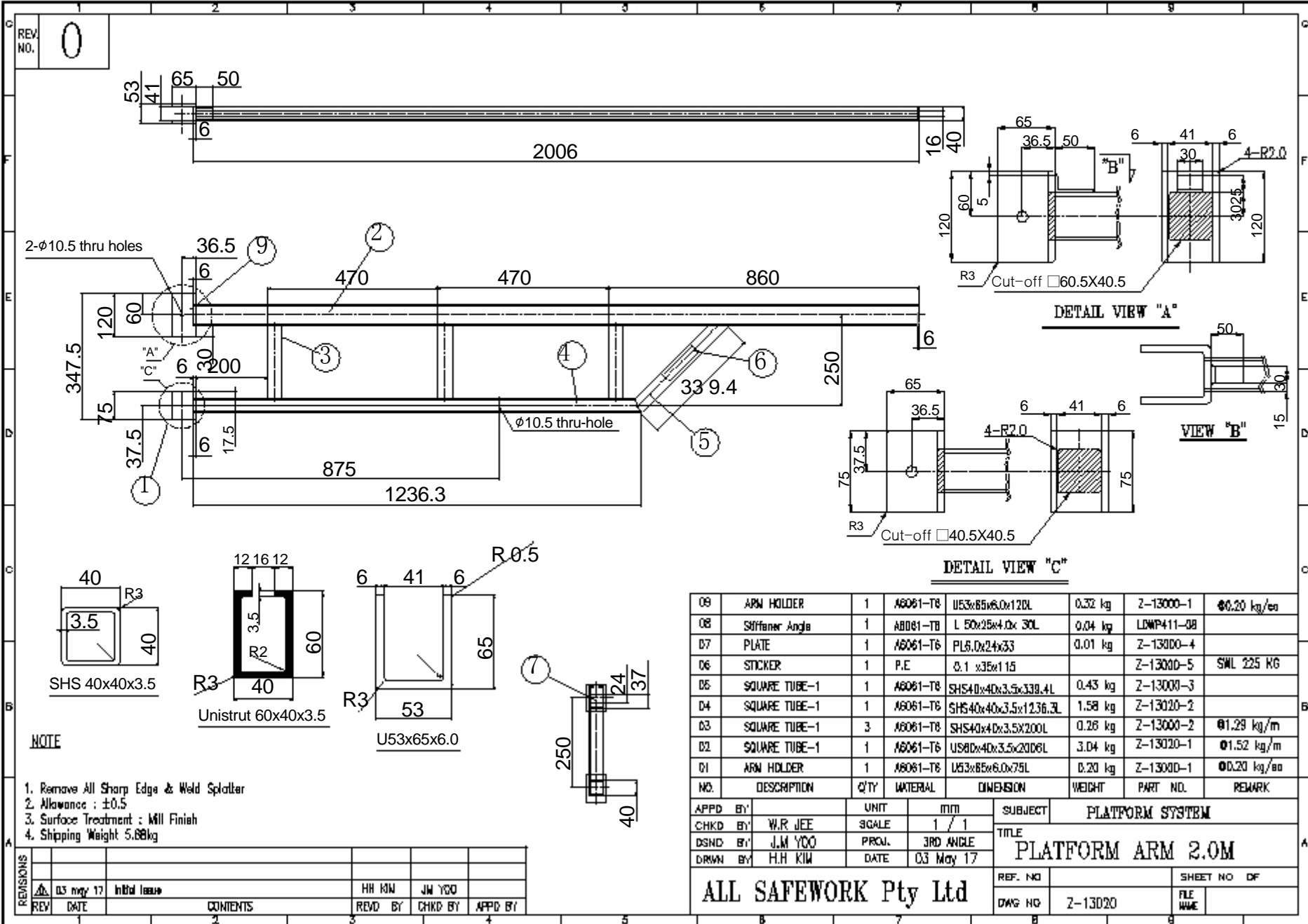
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DETAIL VIEW "A"

VIEW "B"

DETAIL VIEW "C"

NOTE

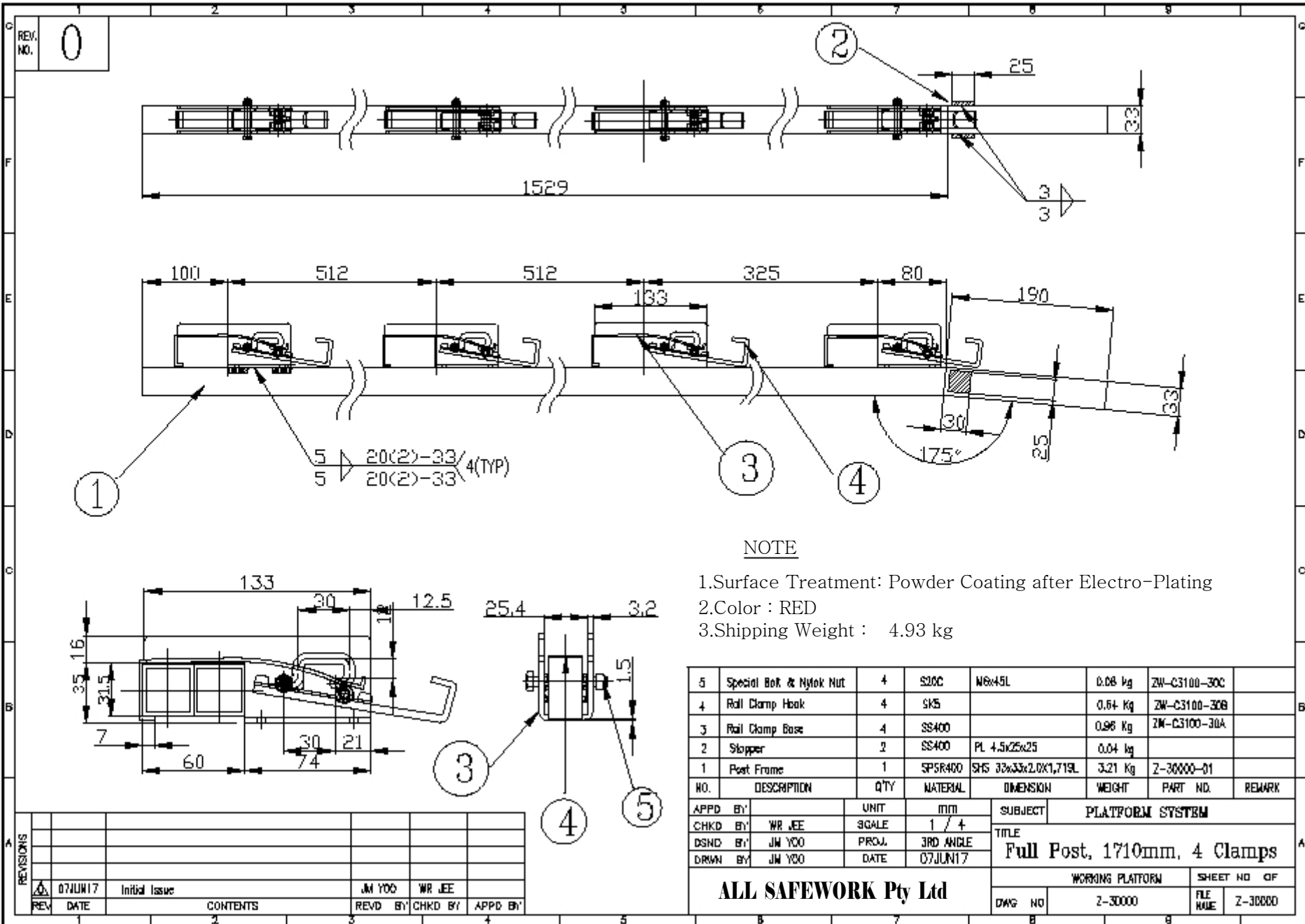
1. Remove All Sharp Edge & Weld Splatter
2. Allowance : ± 0.5
3. Surface Treatment : Mill Finish
4. Shipping Weight 5.88kg

NO.	DESCRIPTION	QTY	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
09	ARM HOLDER	1	A6061-T8	U53x65x6.0x12DL	0.22 kg	Z-13000-1	ϕ 0.20 kg/ea
08	Stiffener Angle	1	A8081-T8	L 60x25x4.0x 30L	0.04 kg	LDWP411-08	
07	PLATE	1	A6061-T6	PL8.0x24x33	0.01 kg	Z-13000-4	
06	STICKER	1	P.E	0.1 x35x115		Z-13000-5	SNL 225 KG
05	SQUARE TUBE-1	1	A6061-T8	SH540x40x3.5x339.4L	0.43 kg	Z-13000-3	
04	SQUARE TUBE-1	1	A6061-T8	SH540x40x3.5x1236.3L	1.58 kg	Z-13020-2	
03	SQUARE TUBE-1	3	A6061-T8	SH540x40x3.5x200L	0.26 kg	Z-13000-2	ϕ 1.29 kg/m
02	SQUARE TUBE-1	1	A6061-T6	US80x40x3.5x200DL	3.04 kg	Z-13020-1	ϕ 1.52 kg/m
01	ARM HOLDER	1	A6061-T8	U53x65x6.0x75L	0.20 kg	Z-13000-1	ϕ 0.20 kg/ea

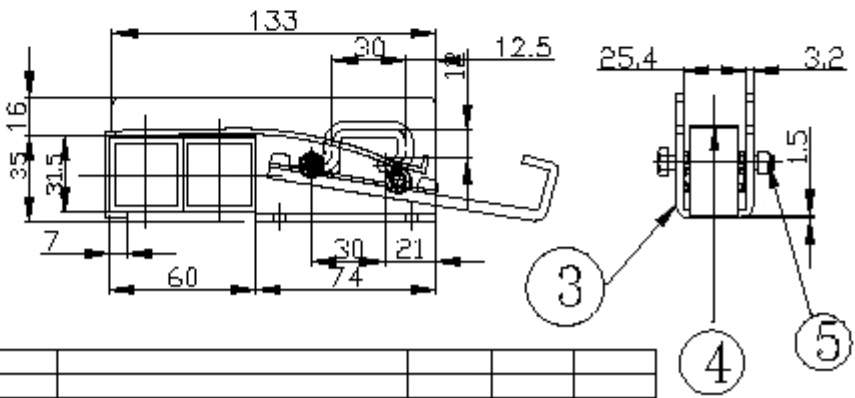
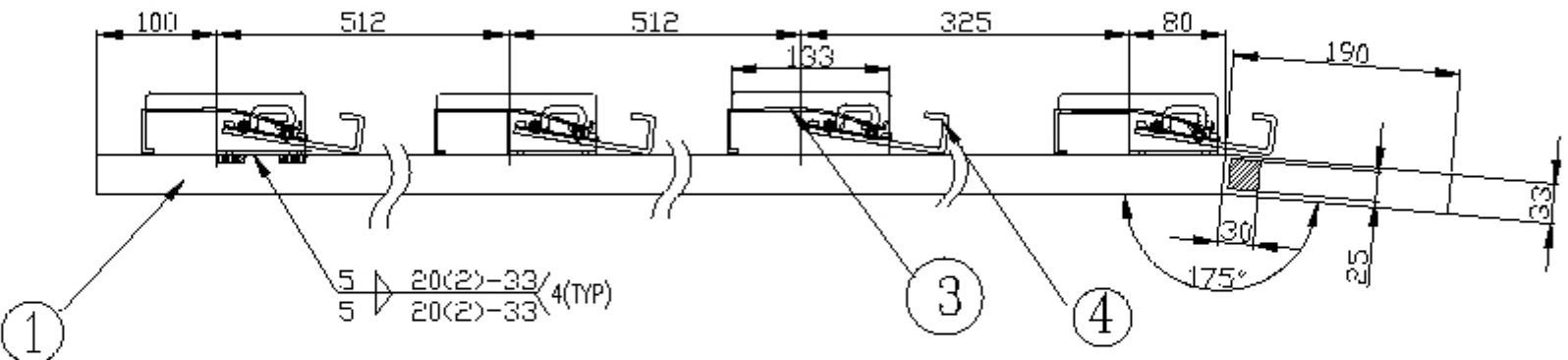
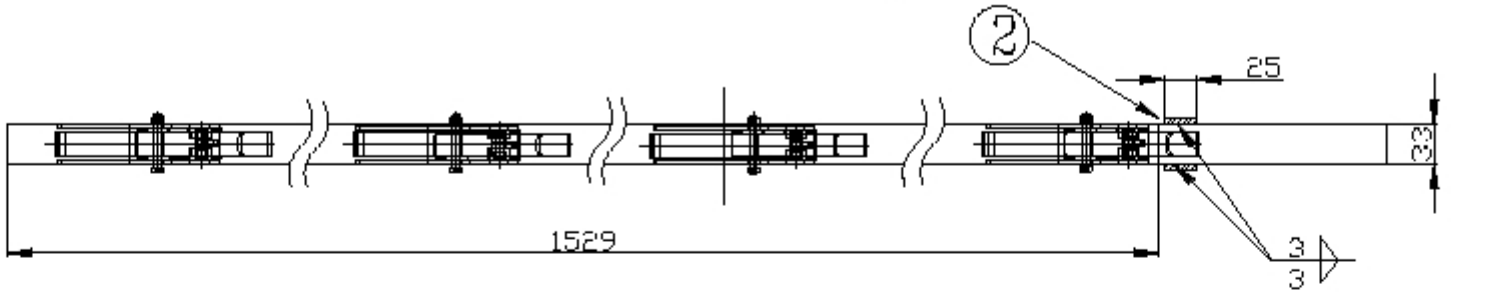
APPD BY:	UNIT	MM	SUBJECT	PLATFORM SYSTEM
CHKD BY: W.R JEE	SCALE	1 / 1	TITLE	PLATFORM ARM 2.0M
DSND BY: J.M YOO	PROJ.	3RD ANGLE		
DRWN BY: H.H KIM	DATE	03 May 17		

ALL SAFEWORK Pty Ltd		REF. NO.	SHEET NO. OF
		DWG NO. Z-13020	FILE NAME

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1	03 May 17	Initial Issue	HH KIM	JM YOO	



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NOTE

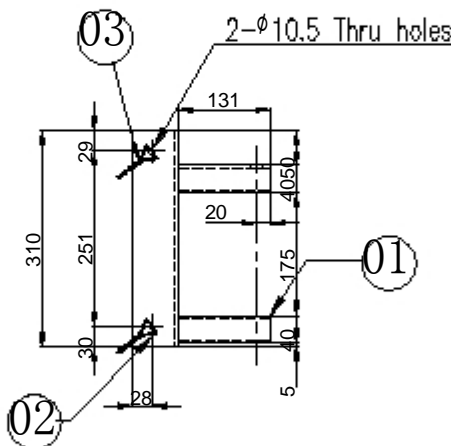
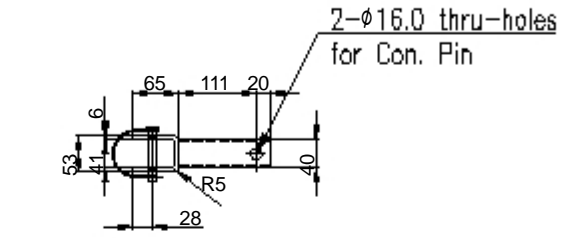
- 1.Surface Treatment: Powder Coating after Electro-Plating
- 2.Color : RED
- 3.Shipping Weight : 4.93 kg

NO.	DESCRIPTION	QTY	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
5	Special Bolt & Nylok Nut	4	S20C	M6x5L	0.08 kg	ZW-C3100-30C	
4	Rail Clamp Hook	4	SKS		0.64 Kg	ZW-C3100-30B	
3	Rail Clamp Base	4	SS400		0.96 Kg	ZW-C3100-30A	
2	Stopper	2	SS400	PL 4.5x25x25	0.04 kg		
1	Post Frame	1	SP5R400	SHS 33x33x2.0x1,719L	3.21 Kg	Z-30000-01	

APPD BY:	UNIT	MM	SUBJECT	PLATFORM SYSTEM
CHKD BY: WR JEE	SCALE	1 / 4	TITLE	Full Post, 1710mm, 4 Clamps
DSND BY: JM YOO	PROJ	3RD ANGLE		
DRWN BY: JM YOO	DATE	07JUN17		
ALL SAFEWORK Pty Ltd			WORKING PLATFORM	SHEET NO OF
			DWG NO 2-30000	FILE NAME Z-30000

REV	DATE	CONTENTS	REVD BY	CHKD BY	APPD BY
1	07JUN17	Initial Issue	JM YOO	WR JEE	

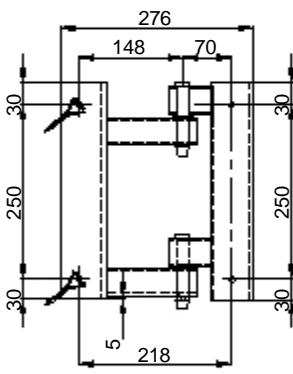
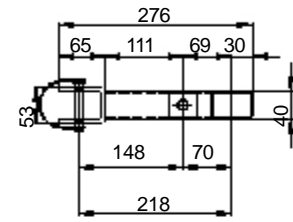
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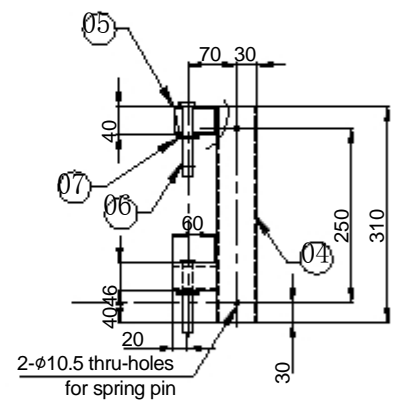
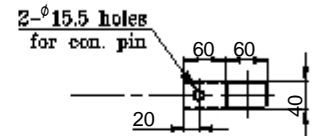
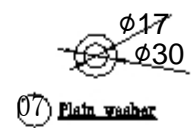
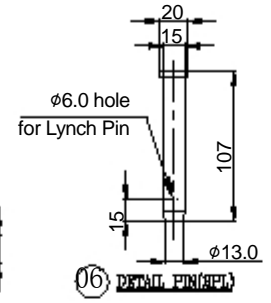
Fixed End to Standard

NOTE

- 1.All Fillet Weld shall be min. 4 mm, UNO.
- 2.Surface Treatment : Mill Finish
- 3.Allowance : ±0.5
- 4.Shipping weight : Fixed End 1.04 kg, Movable End 1.27 kg, Total Set 2.31 kg



Assembly



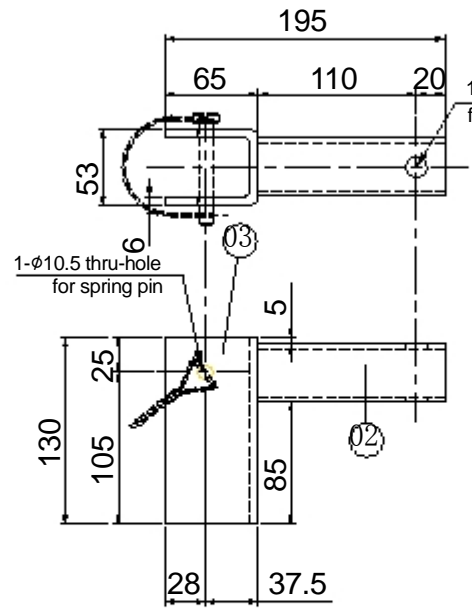
Movable End to Platform Arm

NO.	DESCRIPTION	Q'TY	MATERIAL	DIMENSION	WGHT	PART NO.	REMARK
07	Plain Washer	2	SS 400	#17x30x2.5	0.03 kg	Z-51000-07	
06	Con. Pin w/Lynch Pin	2	S20C	RB 15.0x107L	0.30 kg	Z-51050-D6	
05	Square Tube-2	2	AB061-T6	SHS40x40x3.0x60L	0.13 kg	Z-51050-05	1.13 kg/m
04	Square Tube-1	1	AB061-T6	RHS60x40x4.0x310L	0.56 kg	Z-51050-D4	1.67 kg/m
03	Spring Pin Assy	2	S20C	φ8.3x70.0	0.12 Kg	ZY-B000	
02	STD Bracket	1	AB061-T6	Bent PL 53x85x6.01x310H	0.86 Kg	Z-51050-03	2.75 kg/m
01	Square Tube-2	2	AB061-T6	SHS40x40x3.0x131L	0.28 Kg	Z-51050-02	1.13 kg/m
2.31 kg							

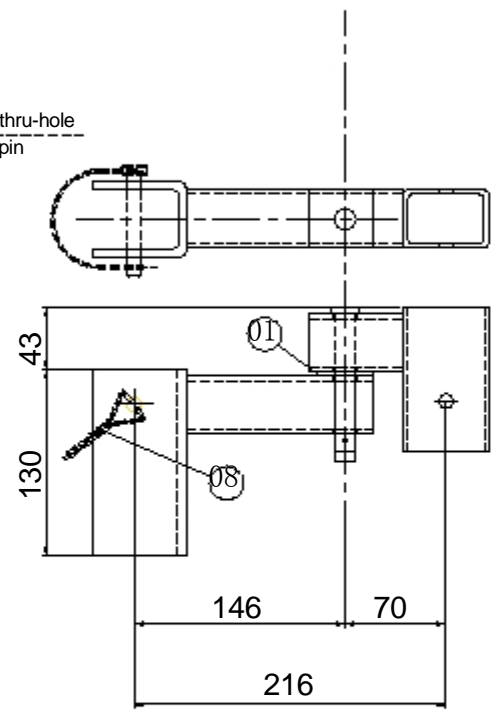
APPD BY:	UNIT	MM	SUBJECT	PLATFORM SYSTEM
CHKD BY: WR JEE	SCALE	1 / 1	TITLE	CORNER SWIVEL UPPER
DSND BY: JM YOO	PROJ	3RD ANGLE		
DRWN BY:	DATE	02JUN17		
ALL SAFEWORK Pty Ltd			REF. NO	SHEET NO OF
			DWG NO	FILE NAME

REV	DATE	CONTENTS	REVD BY	CHKD BY	APPD BY
01	02JUN17	Initial Issue			

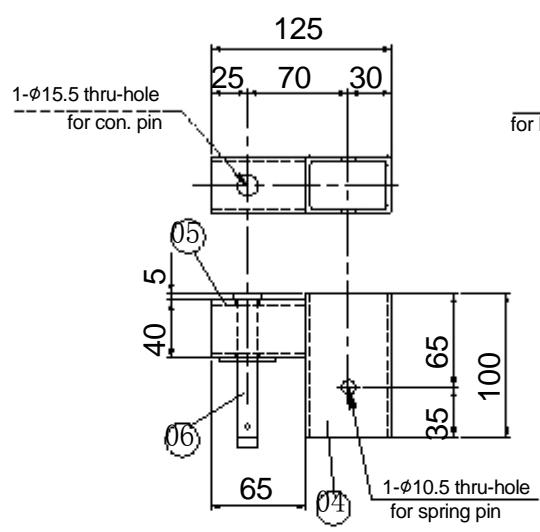
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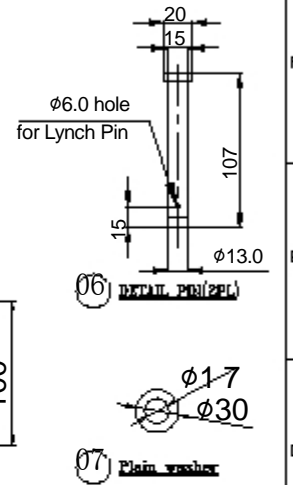
Fixed End to Standard



Assembly



Movable End to Platform Arm



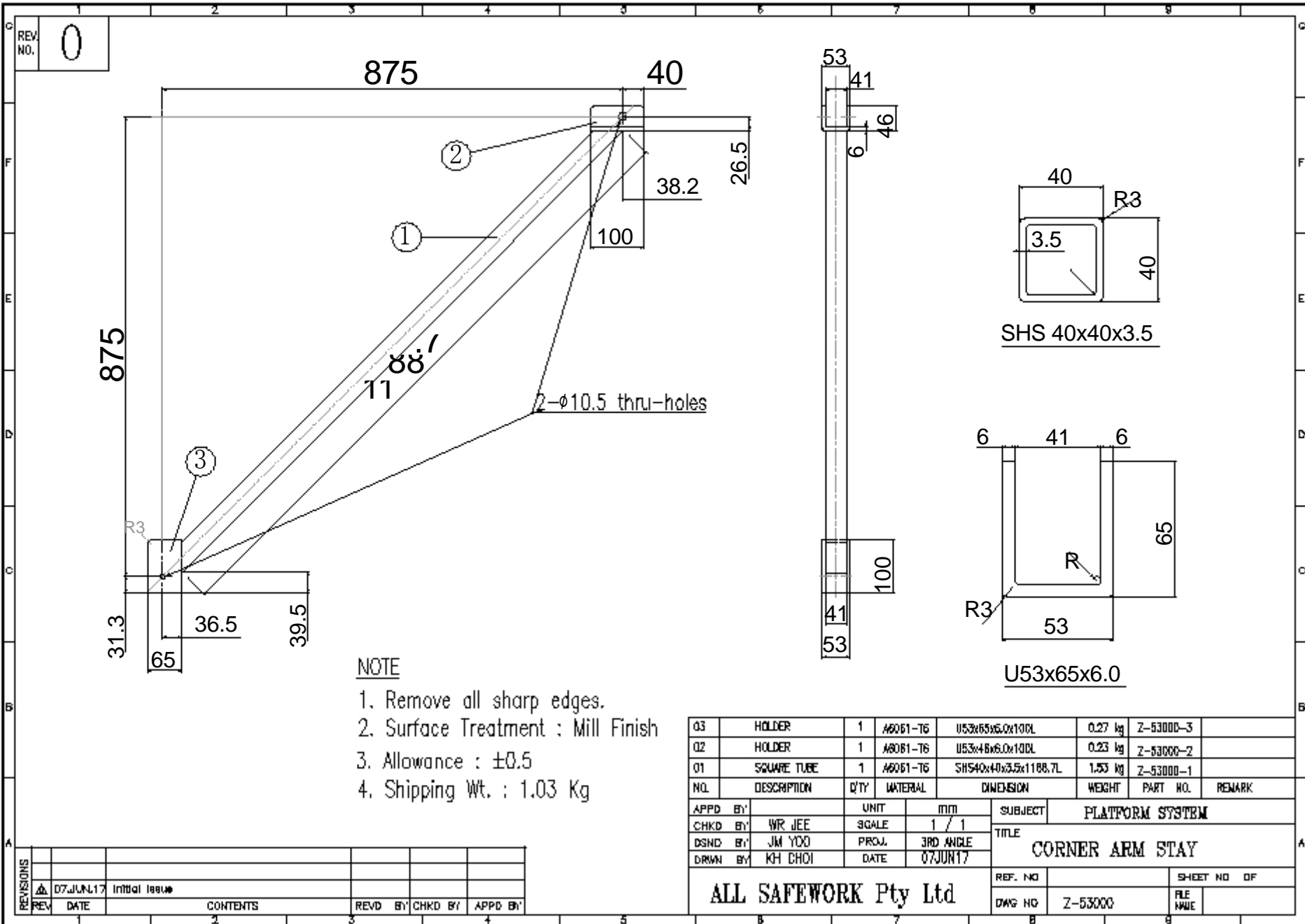
NOTE

- All Fillet Weld shall be min. 4 mm, UNC.
- Surface Treatment : Mill Finish
- Allowance : ±0.5
- Shipping weight : STD End 0.45 kg, ARM End 0.56 kg, Total Set 1.01 kg

SET	NO.	DESCRIPTION	Q'TY	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
ARM End 0.45 kg	07	Plain Washer	1	S5400	#17x30x2.5	0.03 kg	Z-52000-07	
	06	Con. Pin w/Lynch Pin	1	S20C	RB 15.0x10.7L	0.15 kg	Z-52000-08	
	05	Square Tube-2	1	A8081-T8	SH540x40x3.0xBSL	0.06 kg	Z-52000-05	1.13 kg/m
	04	Square Tube-1	1	A8081-T8	PH560x40x4.0x100L	0.19 kg	Z-52000-04	1.87 kg/m
STD End 0.56 kg	08	Spring Pin Assy	1	S20C	φ1.3x70.0	0.06 kg	ZK-8000	
	03	STD Bracket	1	A8081-T8	Brkt PL 53x85x8.0x130H	0.25 kg	Z-52050-03	2.75 kg/m
	02	Square Tube-2	1	A8081-T8	SH540x40x3.0x130L	0.15 kg	Z-52050-02	1.13 kg/m

APPD BY:	UNIT	MM	SUBJECT	PLATFORM SYSTEM
CHKD BY: WR JEE	SCALE	1 / 1	TITLE	CORNER SWIVEL LOWER
DSND BY: JM YOO	PROJ	3RD ANGLE	REF. NO.	
DRWN BY: HH KIM	DATE	02JUN17	DWG NO.	Z-52050
ALL SAFEWORK Pty Ltd			SHT NO	1 OF 1
			FILE NAME	Z-52050

REV	DATE	CONTENTS	REVD BY	CHKD BY	APPD BY
Δ	02JUN17	Initial Issue	HH KIM	JM YOO	
				JM YOO	



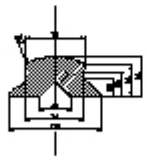
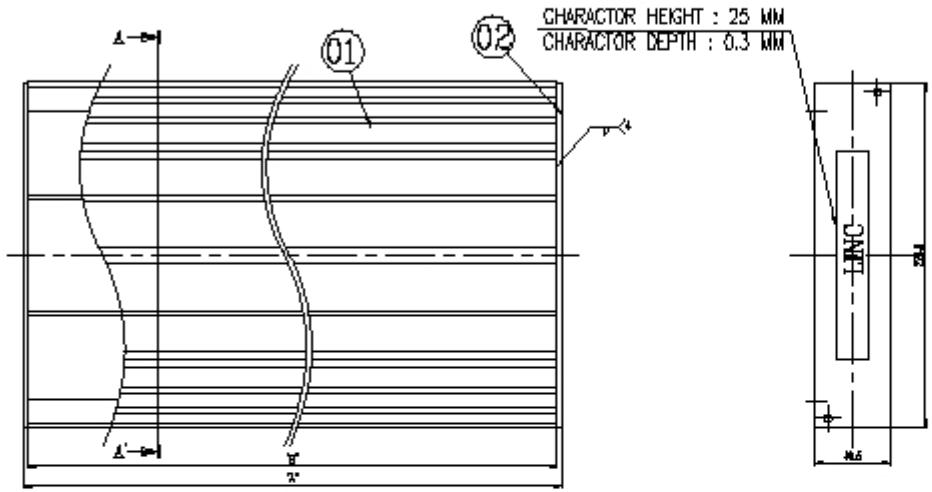
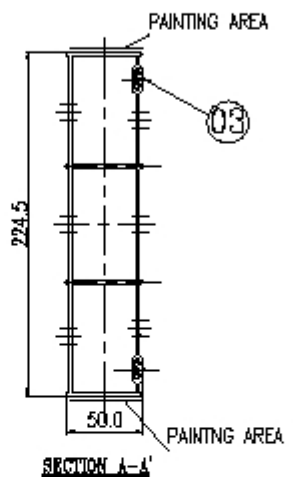
NOTE

1. Remove all sharp edges.
2. Surface Treatment : Mill Finish
3. Allowance : ±0.5
4. Shipping Wt. : 1.03 Kg

03	HOLDER	1	A6061-T6	U53x65x6.0x130L	0.27 kg	Z-53000-3	
02	HOLDER	1	A6061-T6	U53x48x6.0x130L	0.23 kg	Z-53000-2	
01	SQUARE TUBE	1	A6061-T6	SHS40x40x3.5x1188.7L	1.53 kg	Z-53000-1	
NO.	DESCRIPTION	Q'TY	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
APPD BY:		UNIT	MM	SUBJECT: PLATFORM SYSTEM			
CHKD BY: WR JEE		SCALE	1 / 1	TITLE: CORNER ARM STAY			
DSND BY: JM YOO		PROJ	3RD ANGLE				
DRWN BY: KH CHOI		DATE	07JUN17				
ALL SAFEWORK Pty Ltd					REF. NO	SHEET NO OF	
					DWG NO	Z-53000	FILE NAME

REV	DATE	CONTENTS	REVD BY	CHKD BY	APPD BY
0	07JUN17	Initial Issue			

REV NO. 0



NOTE : PAINTING AREA
 1. Etching Primer : VP-134 one Coat, 20um
 2. Top Coat : Urethane Coat two coat 60um,
 3. Color : RED(Same as Rail Color)

PART CODE	"A"	"B"	UNIT WEIGHT	REMARKS
Z-62000	2000	1994	6.901 kg	ZPLANK2
Z-63000	3000	2984	10.277 kg	ZPLANK3
Z-64000	4000	3984	13.654 kg	ZPLANK4
Z-65000	5000	4984	17.030 kg	ZPLANK5

NQ	DESCRIPTION	Q'TY	MATERIAL	DIMENSION	UNIT WEIGHT	PART NO.	REMARK
03	PROFILE RUBBER	2	EPDM(BLACK)		45.72 g/W	Z-62000-3	
02	END PLATE	2	AR061-T6	224.0X48.5X3.0	0.08 kg	Z-62000-2	
01	PROFILE(PLANK)	1	AGH01-T5		3.285 kg/M		

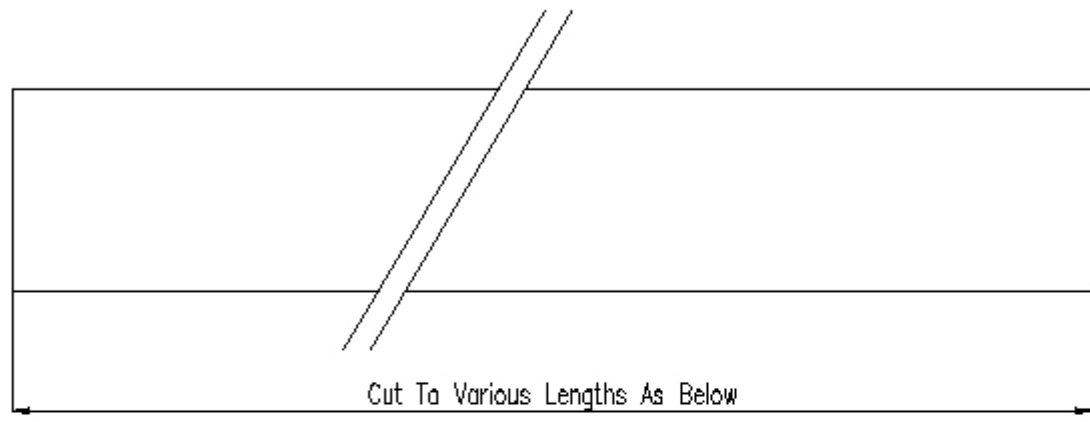
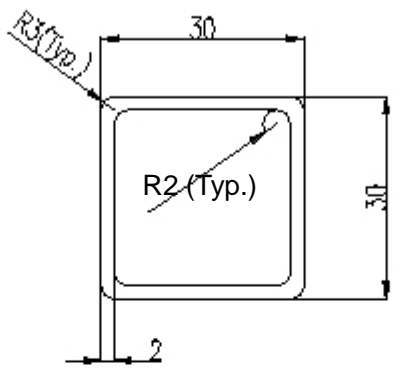
APPD BY:	UNIT	MM	SUBJECT	PLATFORM SYSTEM
CHKD BY: WR JEE	SCALE	1 / 1	TITLE	Aluminum Plank
DSND BY: JM YOO	PROJ	3RD ANGLE		
DRWN BY: KH CHOI	DATE	02JUN17		

ALL SAFEWORK Pty Ltd	REF. NO	SHEET NO OF
	DWG NO	Z-62000
	FILE NAME	

REV	DATE	CONTENTS	REVD BY	CHKD BY	APPD BY
02	JUN17	Initial Issue	HH KIM	JM YOO	

REV. NO. 0

Remove All Burrs And Sharp Edges



NOTE
 1. Surface Treatment
 Coating : RED color
 on Hot Galvanised Iron Tube

Item No.	Length
Z-95000	5.0 mtr.
Z-94000	4.0 mtr.
Z-93000	3.0 mtr.
Z-92400	2.4 mtr.
Z-92000	2.0 mtr.

NO.	DESCRIPTION	QTY	MATERIAL	DIMENSION	WEIGHT	PART NO.	REMARK
5	Hand Rail		SPSR400	SHS 30x30x2.0x2000L	3.36 kg	Z-92000	① 1.68kg/m
4	Hand Rail		SPSR400	SHS 30x30x2.0x2400L	4.03 kg	Z-92400	① 1.68kg/m
3	Hand Rail		SPSR400	SHS 30x30x2.0x3000L	5.04 kg	Z-93000	① 1.68kg/m
2	Hand Rail		SPSR400	SHS 30x30x2.0x4000L	6.72 kg	Z-94000	① 1.68kg/m
1	Hand Rail		SPSR400	SHS 30x30x2.0x5000L	8.40 kg	Z-95000	① 1.68kg/m

REV	DATE	CONTENTS	REVD BY	CHKD BY	APPD BY
07	JUN17	Initial Issue			

APPD BY	UNIT	mm	SUBJECT	PLATFORM SYSTEM		
CHKD BY	SCALE	1 / 1	TITLE	Handrail-Variou lengths		
DSND BY	PROJEC'N	3RD ANGLE				
DRWN BY	DATE	07JUN17				
ALL SAFEWORK Pty Ltd			Working Platform		SHEET NO OF	
			DWG NO	Z-90000	FILE NAME	Z-90000