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HUATRACO SCAFFOLD SDN BHD (240510-T)

a wholly-owned subsidiary of HIAP TECK VENTURE BERHAD (421340-U)

Lot 6088, Jalan Haji Abdul Manan, Batu 5¹/₂, Off Jalan Meru,
41050 Klang, Selangor Darul Ehsan, Malaysia.

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: www.huatraco.com



Compliance of Scaffold Based On CIDB ACT 520 (Fourth Schedule)

MS 1462-1:2012 Frame Scaffolding

ACT 520 (AMENDMENT 2011):

CERTIFICATION OF STANDARDS COMPLIANCE FOR BUILDING MATERIALS

- CIDB has on 1 June 2015 implemented that only building materials which have received the Certification of Standards Compliance can be used in construction projects. There are 13 affected material groups listed under The Fourth Schedule Subsection 33 C (1) in the act.
- Item no. 11 (d) (iii) – Specification for steel frame scaffoldings (HS Code: 730840) is listed under this Fourth Schedule.

FOURTH SCHEDULE [Subsection 33c (1)]

STANDARDS FOR CERTIFICATION OF CONSTRUCTION MATERIAL

No.	Type of Construction Material	Approved Standards by the Lembaga
11. (d)	STRUCTURAL AND OTHER CAST IRON AND ARTICLES	
	i. Bridges and bridge sections	MS EN 10025: Part 2
	ii. Towers and lattice masts	MS EN 10025: Part 2
	iii. Scaffolding	MS 1462: Part 1 to 4
	iv. Corrugated sheet pile cold form	MS 2025-1 MS 2025-2
	v. Bearing piles – angle shape and section	MS EN 10025: Part 2
	vi. Guardrails	AASHTO M-180 BS EN ISO -1461
	vii. Fabricated structure	MS EN 10025: Part 2
	viii. Railway track	JIS E 1101 DIN 536 BS EN 13674
	ix. Light gauge steel section	MS EN 10025: Part 2
	x. Equal angles, shape and section U, I, L, T, or H	MS EN 10025: Part 2

HUATRACO STEEL FRAME SCAFFOLDING COMPONENTS



FRAME SCAFFOLDING

TEST REPORT

REPORT NO : 2016CB1073	PAGE : 6 OF 13
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TEST RESULTS:

Product : Prefabricated Steel Frame Scaffolding
 Model : HT101
 Method of Test : MS 1462 -1: 2012
 Metal Scaffolding – Part 1: Prefabricated scaffold - Specification for Steel Frame Scaffoldings (First Revision)

REPORT NO : 2016CB1073	PAGE : 7 OF 13
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CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
5 5.1	Dimensional Requirements Tolerances Height : 1700 mm ± 1.0 mm Width : 1219 mm ± 1.0 mm		Pass Pass
5.2	Member and fittings The dimensions of each member and its associated fittings shall comply with the tolerances given in table 2. 1) Vertical Frame <u>Tubular Vertical Post and Horizontal Member</u> Outer Diameter : 42.7 ± 0.25 mm Thickness : 2.5 ± 0.3 mm <u>Tubular Reinforcement member</u> Outer Diameter : 27.2 ± 0.25 mm Thickness : 2.0 ± 0.3 mm <u>Cross Brace Pin</u> Outer Diameter : 14.0 ± 1.0 mm 2) Cross Brace <u>Tubular Brace Member</u> Outer Diameter : 21.7 ± 0.25 mm Thickness : 2.0 ± 0.3 mm <u>Hinge Pin</u> Outer Diameter : 7.5 ± 0.7 mm		Pass Pass Pass Pass Pass Pass Pass Pass

CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
5.2	Member and fittings The dimensions of each member and its associated fittings shall comply with the tolerances given in table 2. 3) Adjustable Base Plate <u>Threaded Bar</u> Minimum Outer Diameter : 32 mm <u>Plate for adjustable base plate</u> Minimum Dimension : 120 mm x 120 mm <u>Thickness plate</u> Minimum Thickness : 5.4 mm 4) Adjustable U – Head <u>Threaded Bar</u> Minimum Outer Diameter : 32 mm <u>Plate for adjustable base plate</u> Minimum Dimension : 150 mm x 120 mm <u>Thickness plate</u> Minimum Thickness : 5.4 mm 5) *Joint Pin <u>Tenon</u> Minimum Outer Diameter : 95 mm Minimum Thickness : 2.2 mm <u>Collar</u> Minimum Outer Diameter : 25 mm Minimum Thickness : 2.2 mm		Pass Pass Pass Pass Pass Pass Pass

MS 1462 -1:2012

Table 2. Material quality, dimensions and tolerances for components of frame scaffoldings

Member	Component		Material quality	Dimensions (mm)		Tolerances (mm)	
				Outer diameter	Thickness	Outer diameter	Thickness
Vertical frame	Tubular vertical post and horizontal member		STK 500 specified in JIS G3444 or equivalent	42.7	2.5	±0.25	±0.3
	Tubular reinforcement member		STK 400 specified in JIS G3444 or equivalent	27.2	2.0		
	Cross brace pin		SS 400 specified in JIS G3101 or equivalent	14.0		±1.0	
Cross brace	Tubular brace member		STK 400 specified in JIS G3444 or equivalent	21.7	2.0	±0.25	±0.3
	Hinge pin		SWRM 20 specified in JIS G3505 (Low carbon steel wire rods) or equivalent	7.5		±0.7	
Horizontal frame	Tube member		STK 500 specified in JIS G3444 or equivalent	42.7	2.5	±0.25	±0.3
	Tubular arm or traverse member		STK 400 specified in JIS G3444 or equivalent	34.0	2.3		
	Clamp or hook		SS 400 specified in JIS G3101 or equivalent		8.0	-	±0.8
Catwalk or tread board	Catwalk member	Steel plate	SPHC specified in JIS G3131 or equivalent	500*	1.2	-	±0.1
	Clamp or hook		SS 400 specified in JIS G3101 or equivalent		8.0	-	±0.8
Adjustable base plate/ U-head	Threaded bar		SS 330 specified in JIS G3101 or equivalent	32**	-	-	-
	Plate for adjustable base plate		SS 330 specified in JIS G3101 or equivalent	120 x 120***	5.4***	-	-
	Plate for U-head		SS 330 specified in JIS G3101 or equivalent	150 x 120***	5.4***	-	-
	Adjusting nut		FCMB 310 specified in JIS G5702 (Blackheart malleable iron castings) or equivalent	-	-	-	-
Bracket	Vertical, lateral & diagonal members		SGP specified in JIS G3452 or SS 330 specified in JIS G3101 or equivalent	-	-	-	-
	Metal fittings	Bolt, nut & pin	SS 330 specified in JIS G3101 or equivalent	-	-	-	-
		Parts other than bolt, nut & pin	SPHD specified in JIS G3131 or equivalent	-	-	-	-
Wall tie	Principal member		SGP specified in JIS G3452 or SS 330 specified in JIS G3101 or equivalent	-	-	-	-
	Gripper metal fittings	Bolt, nut & pin	SS 330 specified in JIS G3101 or equivalent	-	-	-	-
		Parts other than bolt, nut & pin	SPHD specified in JIS G3131 or equivalent	-	-	-	-
	Metal fittings		SS 400 specified in JIS G3101 or equivalent	-	-	-	-

MS 1462 -1:2012

Table 2. Material quality, dimensions and tolerances for components of frame scaffoldings (continued)

Member	Component		Material quality	Dimensions (mm)		Tolerances (mm)	
				Outer diameter	Thickness	Outer diameter	Thickness
Joint pin	Tenon		SGP specified in JIS G3452 or equivalent	95†	2.2	-	-
	Collar			25†		-	-
Arm lock			SS 330 specified in JIS G3101 or equivalent	38 (plate width)	3.1 (plate thickness)	-	±0.3
Global bracing system	Diagonal and horizontal tubular brace		STK 500 specified in JIS G3444 or equivalent	48.6	2.5	±0.25	±0.3
	Clamp or fitting	Body and cover	SPHD specified in JIS G 3131	42.7~48.6	3***	±1.0	-
		Bolt, nut and pin	SS330 specified in JIS G 3101	12**	-	-	-
Side protection/ Guard rail	Tube member		STK 500 specified in JIS G3444 or equivalent	48.6	2.5	±0.25	±0.3
	Clamp or fitting	Body and cover	SPHD specified in JIS G 3131	42.7~48.6	3***	±1.0	-
		Bolt, nut and pin	SS330 specified in JIS G 3101	12**	-	-	-
Toe board	Board Member	Lipped channel	SPHC specified in JIS G 3131 or equivalent	150*	1.2	-	±0.1

* Minimum width
 ** Minimum diameter
 *** Minimum dimension
 † Minimum length

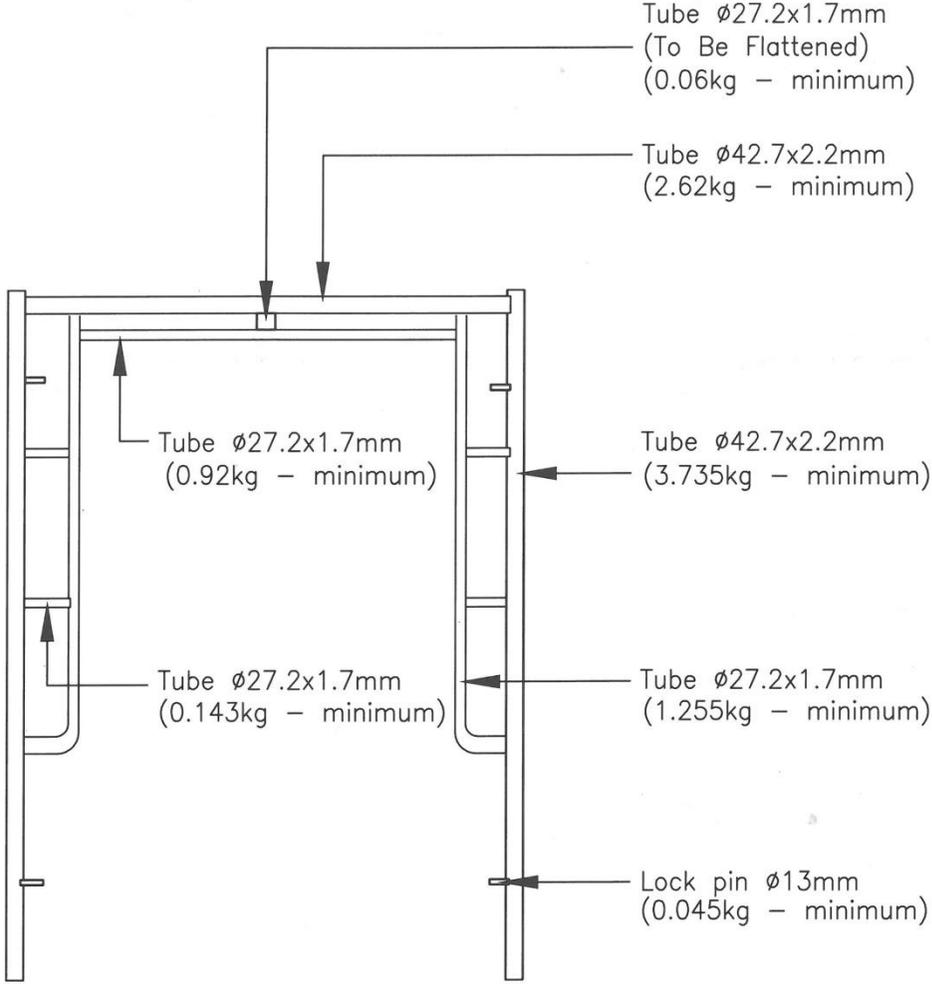
MS 1462-1:2012

FRAME SCAFFOLDING

HT101 VERTICAL FRAME

1219mm X 1700mm X 2.5mm thk.

(Calculation of Weight)



Minimum Weight: 14.33kg per frame

FRAME SCAFFOLDING

TEST REPORT

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 Frame Scaffoldings (First Revision)

CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
7 7.1 7.2	Protection External Surface *Hot-dip galvanizing coating Annex A Requirements and quality control of zinc coating A1 : Scope and field of application A2 : Characteristic of the coating A2.2 : Thickness of the coating The thickness of the coating shall be not less than 25 µm. The thickness test shall be carried out on the outside only. A3.2.2 (Magnetic Method)		Vertical Frame Pass Adjustable Base Plate Pass Adjustable U-Head Pass

FRAME SCAFFOLDING

TEST REPORT

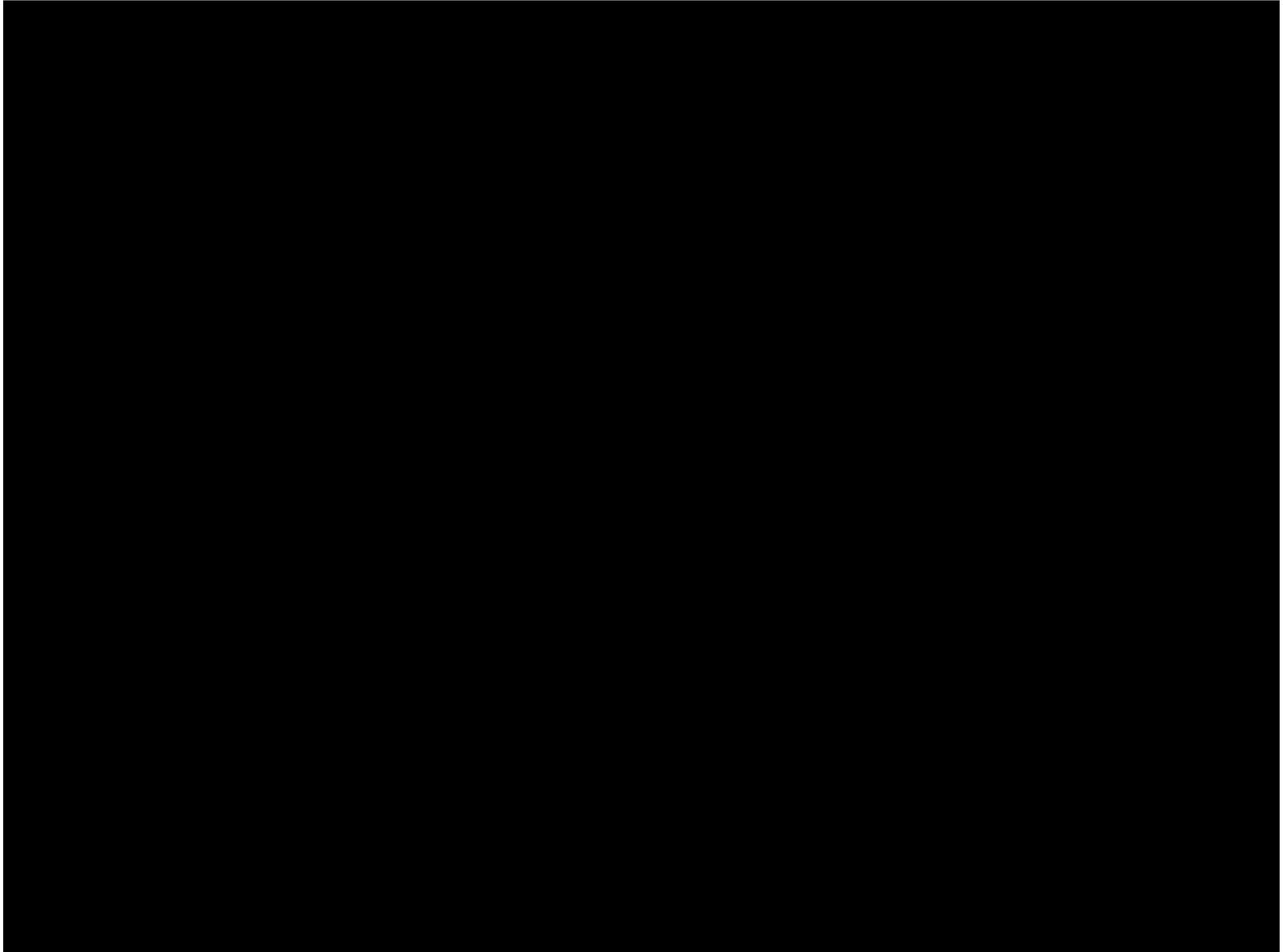
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CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
7.3	<p>*Paint Coating Annex B Requirements and field of application B1: Scope and field of application B2: Characteristic of the coating</p> <p>Vertical Frame B2.1: Corrosion Resistance The degree of corrosion shall not exceed 1% of the surface area of the test specimen at the end of the minimum exposure time. Minimum : 100 hours Maximum : 500 hours</p> <p>B2.2: Adhesion The detached surface shall not exceed 15% of the cross-cut area.</p>		<p>Pass</p> <p>Pass</p>
8	Welding		N.A
9	Used and refurbished frame scaffolding system		N.A
10	Marking		N.A

CROSS CUT TEST – VIDEO



CROSS CUT TEST RESULT

Comply



Not Comply



FRAME SCAFFOLDING

TEST REPORT

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CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
6	Testing		
6.1	System Performance Test		
6.1.1	Load Test on a 3-bay x 3-lift frame scaffolding system		
6.1.1.1	** Stiffness Test After removal of the test load, the member or structure shall be deemed to have adequate stiffness if all measured strains or deflections show a recovery of at least 80%. If any of the measured strain or deflection values does not show a recovery of at least 80% of the respective maximum values recorded during the 2 hours under test load, the test shall be repeated.		Pass
6.1.1.2	The structure shall be considered to have sufficient stiffness provided the recovery after the second test is not less than 90% of the respective maximum increase in strain or deflection shown in the second test. ** Strength Test The structure shall be deemed to have adequate strength if during the test, no part fails and if on removal of the test load, all measured strains or deflection values show a recovery of at least 20% of the respective maximum values recorded during the 2 hours under test load.		N.A Pass

CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
6.1.2	Lateral Load Test		
6.1.2.1	** Stiffness Test All measured strains or deflection values shall show a recovery of at least 80% of the respective maximum values recorded during the 2 hours under test load.		Pass
6.1.2.2	** Strength Test The structure shall be deemed to have adequate strength if during the test, no part completely fails and if on removal of the test load, all measured strains or deflection values show a recovery of at least 20% of the respective maximum values recorded.		Pass

Load Test 1 Bay x 3 Lift

Source : MS1462-1

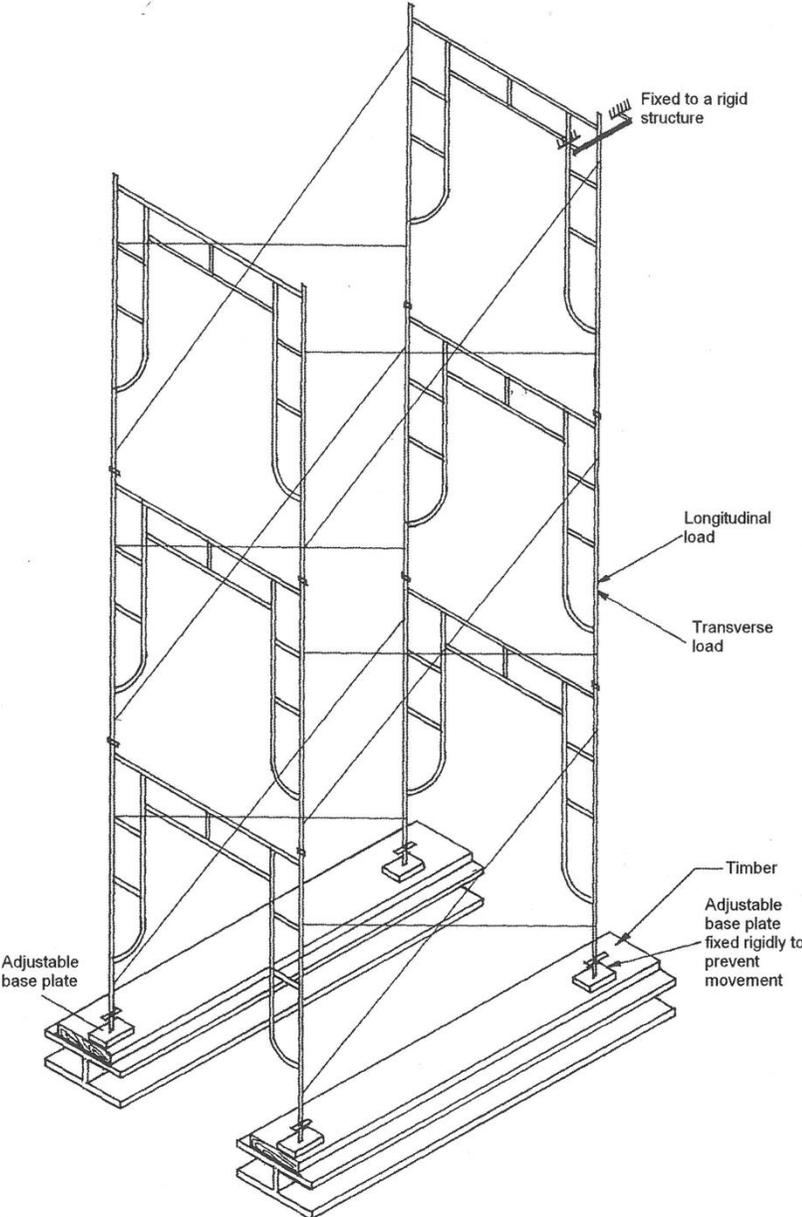


Figure D1. Lateral load test on a 1-bay x 3-lift frame scaffolding system



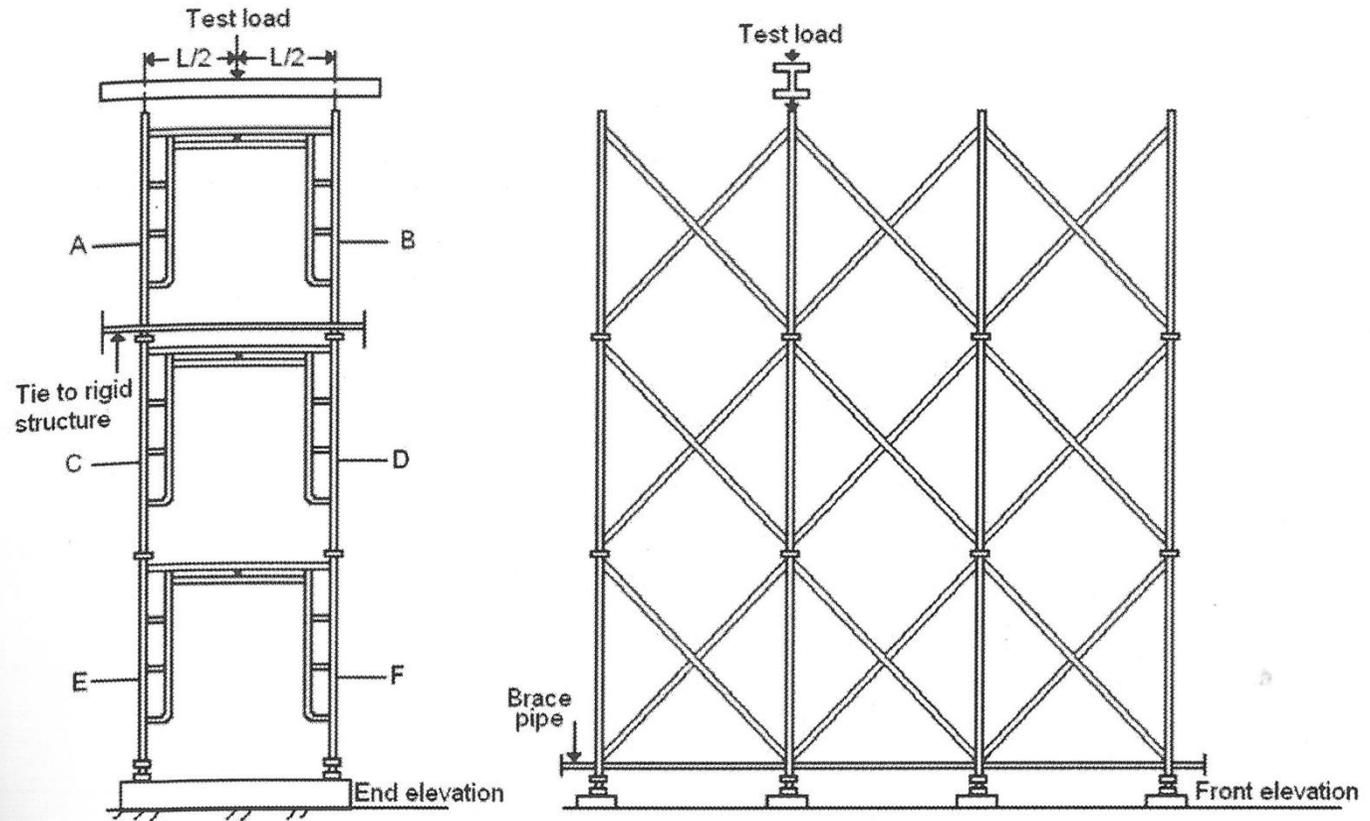
STEEL FRAME SCAFFOLDING

TESTING METHOD – LOAD TEST

1 BAY x 3 LIFT

Load Test 3 Bay x 3 Lift

Source : MS1462-1



NOTE. A, B, C, D, E and F (located at mid-height of the vertical post) are the locations where the transverse and longitudinal deflections are measured.

Figure C1. Load test on a 3-bay x 3-lift frame scaffolding system



STEEL FRAME SCAFFOLDING

TESTING METHOD – LOAD TEST

3 BAY x 3 LIFT

MARKING ON PRODUCTS



TAGGING ON BUNDLES



PRODUCT CERTIFICATE



No Lesen : PC002533
Licence No :

LESEN PENSIJILAN BARANGAN Product Certification Licence



SIRIM QAS International Sdn. Bhd. dengan ini menganugerahkan kepada
SIRIM QAS International Sdn. Bhd. hereby grants to

HUATRACO SCAFFOLD SDN. BHD.
LOT 6088, JALAN HAJI ABDUL MANAN
BATU 5 1/2, JALAN MERU
41050, KLANG
SELANGOR, MALAYSIA

Lesen untuk menggunakan Tanda Pensijilan di atas barangan
a licence to use the Certification Mark on

PREFABRICATED STEEL FRAME SCAFFOLDING

Please refer to detail in the SCHEDULE

sebagai mematuhi keperluan
as complying with

MS 1462-1 : 2012

Mohd Azanuddin bin Salleh
Pengarah Urusan
Managing Director
SIRIM QAS International Sdn. Bhd.

SIRIM QAS International Sdn. Bhd.
(No. Syarikat 410334-X)
1, Perumahan Duta Menteri
Seksyen 2, Peta Surai 7035
40700 Shah Alam
Selangor Darul Ehsan
MALAYSIA.

Tarikh Mula Pensijilan : 30 September 2016
Certified Since
Sah Sehingga : 30 September 2017
Valid Until

Tarikh Dikeluarkan : 06 October 2016
Issue Date
No Siri : 026495
Serial No

Tel : 603-5544600
Faks : 603-5544608
<http://www.sirim.my>
<http://www.malaysia-certified.my>

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No Lesen : PC002533
Licence No :

SCHEDULE

HUATRACO SCAFFOLD SDN. BHD.



Brand : HUATRACO
Model : HT101
Rating : COATING TYPE= HOT DIP GALVANISING AND PAINTING
Type : COMPONENTS= VERTICAL FRAME, CROSS BRACE, JOINT PIN, U HEAD,
JACK BASE AND WALL TIE

End of page

SIRIM QAS International Sdn. Bhd.
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Page 1 of 1

FRAME SCAFFOLDING

CERTIFICATION OF CONSTRUCTION PRODUCTS AND MATERIALS (CCPM)



No Perakuan: **A 001058**

PERAKUAN PEMATUHAN STANDARD (BAHAN BINAAN)

Adalah dengan ini Pengilang/Pengeluar yang dinyatakan di bawah ini telah mengeluarkan bahan binaan yang diperakui oleh Lembaga mengikut Bahagian VIIA Akta Lembaga Pembangunan Industri Pembinaan Malaysia (Pindaan 2011). Perakuan ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan. Perakuan ini mengesahkan bahawa bahan atau produk binaan yang dinyatakan di bawah telah diperakui.

No. Pendaftaran : 1161107SL0151
 Nama Pengilang / Pengeluar : HUATRACO SCAFFOLD SDN BHD
 Alamat Kilang Berdaftar : LOT 6088, JALAN HAJI ABDUL MANAN,
 BATU 5 1/2, OFF JALAN MERU
 41050 KLANG
 SELANGOR

Kategori dan Jenis produk bahan binaan :
 (Rujuk Lampiran A untuk butiran terperinci)

IRON AND STEEL PRODUCTS
 - Prefabricated Steel Frame Scaffolding

Tarikh Mula Berkuatkuasa : 07-11-2016
 Tarikh Tamat Tempoh Perakuan : 06-11-2017

Perakuan ini hendaklah diperbaharui seawat-lewatnya 30 hari sebelum tarikh tamat tempoh perakuan.

Nota: Perakuan dikeluarkan setelah Lembaga menjalankan pemeriksaan dan pengesahan ke atas kilang dan produk-produk yang terkandung di dalam Pensijilan Produk (Product Certification) yang dikeluarkan oleh Badan Pensijilan yang diiktiraf. Pihak pengeluar/pengilang adalah bertanggungjawab untuk memastikan Pensijilan Produk (Product Certificate) sentiasa dalam tempoh sah laku.



SR. MOHD ZAID BIN ZAKARIA
 PENGARAH NEGERI
 CIDB NEGERI SELANGOR
 b.p Ketua Eksekutif



LAMPIRAN A

No. Pendaftaran : 1161107SL0151
 No. Perakuan : A001058
 No. Pengilang / Pengeluar : HUATRACO SCAFFOLD SDN BHD

Kategori	Jenis / Saiz	Jenama	Standard
IRON AND STEEL PRODUCTS	Prefabricated Steel Frame Scaffolding	Huatraco	MS 1462-1:2012
	VERTICAL FRAME		
	Prefabricated Steel Frame Scaffolding	Huatraco	MS 1462-1:2012
	CROSS BRACE		
	Prefabricated Steel Frame Scaffolding	Huatraco	MS 1462-1:2012
	JOINT PIN		
	Prefabricated Steel Frame Scaffolding	Huatraco	MS 1462-1:2012
	U-HEAD		
	Prefabricated Steel Frame Scaffolding	Huatraco	MS 1462-1:2012
	JACK BASE		
	Prefabricated Steel Frame Scaffolding	Huatraco	MS 1462-1:2012
	WALL TIE		



MOHD ZAID ZAKARIA
 Pengarah
 CIDB Negeri Selangor

FRAME SCAFFOLDING CERTIFICATION OF COMPLIANCE



Our Reference: LPIPM: SO/PBI/14/02/11 (32)
Date : 20 Jun 2016

HUATRACO SCAFFOLD SDN. BHD
LOT 6088, JALAN HAJI ABDUL MANAN
BATU 5 ½, JALAN MERU
41050 KLANG
SELANGOR

Dear Sir,

CERTIFICATION OF STANDARD COMPLIANCE

CIDB Malaysia hereby certifies that your Accessories for Prefabricated Scaffolding as follows:

A.	Brand	:	HUATRACO
	Model	:	CATWALK
	Type	:	WITH HOOKS
	Size	:	THICKNESS(mm)=MIN 1.08, WIDTH(mm)=500, LENGTH (mm)= 1829
B.	Brand	:	HUATRACO
	Model	:	CATWALK (METAL DECK)
	Type	:	WITHOUT HOOKS
	Size:	:	THICKNESS(mm)=MIN 1.08, WIDTH(mm)= 200, 210, 240; LENGTH (mm)= 1500, 2000, 3000, 4000

Comply with the MS 1462-1 : 2012 with reference to Product Certification License PC002201.

- The expiry date for this certification is 11 March 2017.
- We acknowledged that the importer for the product is Huatraco Scaffold Sdn. Bhd.

"BUILDING YOUR SUCCESS"

SAZALI CHE AMAT
General Manager
Construction Materials Division
CIDB Malaysia

LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA

IBU PEJABAT
Tingkat 10, Menara Dato' Onn, Pusat Dagangan Dunia Putra,
No.45, Jalan Tun Ismail, 50480 Kuala Lumpur, MALAYSIA
t+6 03-4047 7000 f+6 03-4047 7070 www.cidb.gov.my



WHAT THE LAW SAYS ?

CIDB's Act 520

- Section 33D(2) : Any person who deal or undertake to deal with the construction materials specified in the Fourth Schedule without the certification of the Lembaga shall be guilty of an offence and shall, on conviction, be liable to a fine of not **less than RM10,000** but **not more than RM500,000**.
- Section 35C(2)(a) : Search and seize any construction materials, equipment, instrument, book, record, document, computerized document, article or other thing that is reasonably believed to furnish evidence of the commission of such offence

WHAT THE LAW SAYS ?

CIDB's Act 520

- Section 33C(1) : ‘The Lembaga shall, in the manner determined by the Lembaga, certify the construction materials used in the construction industry and specified in the Fourth Schedule in accordance with the standard specified in the Schedule.’
- Section 33D(1) : ‘A person shall not deal or undertake to deal, whether directly or indirectly, with the construction materials specified in the Fourth Schedule unless the construction materials have been certified by CIDB.’

ENFORCEMENT BY CIDB

Power of Investigation

A. Enter premises/ sites

Simple inspection on products can be carried out on following criteria:-

- i. Weight
- ii. Thickness
- iii. Surface finishing
- iv. Coating – The thickness of the coating shall be not less than 25 micron meter. The thickness test shall be carried out on the outside only.

B. Samples can be sent to accredited lab for full testing to ensure the compliance of MS1462 e.g. load bearing test, material composition, grade of material used etc.

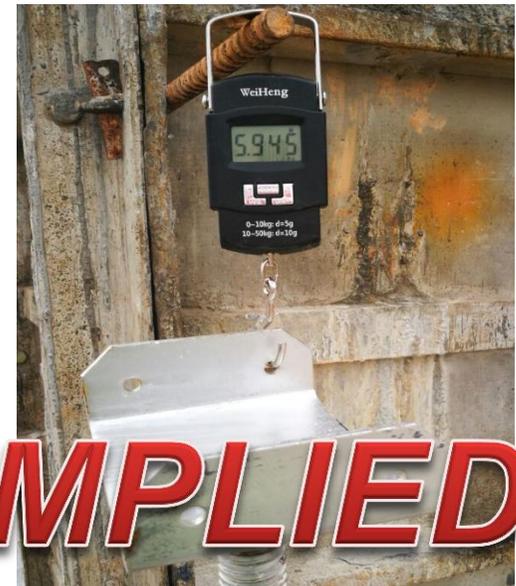
TOOLS / EQUIPMENTS USED TO MEASURE THE PRODUCTS AT SITE



TOOLS / EQUIPMENTS USED TO MEASURE THE PRODUCTS AT SITE



COMPLIED



NON COMPLIED

Website To Check Compliances

www.malaysiancertified.com.my



Malaysian Certified
www.malaysiancertified.com.my

[About](#) |
 [Product](#) |
 [Termination Listing](#) |
 [Treasury Listing](#) |
 [Management Certification](#) |
 [SIRIM QAS International Website](#)

Product Certification

Company Name	Country	License No.	Product Name	Standard
HUATRACO SCAFFOLD SDN. BHD.	MALAYSIA	PC002269	NON-ALLOY STEEL TUBE	MS 863 : 2010
HUATRACO SCAFFOLD SDN. BHD.	MALAYSIA	PC002604	COUPLERS FOR TUBULAR SCAFFOLDING	MS 1462-2-3 : 2011
HUATRACO SCAFFOLD SDN. BHD.	MALAYSIA	PC002201	ACCESSORIES FOR PREFABRICATED SCAFFOLDING	MS 1462-1 : 2012
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