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SCAFFOLDING

PREQUALIFICATION

CUPLOCK SCAFFOLDING
SALES, HIRE & ERECTION

ISO 14001 · OHSAS 18001 · ISO 9001: 2008

INTRODUCTION

The Company was established in the year 2003 and is engaged in the Rental Business of "Cup Lock Scaffolding, Tripod with Aluminium & Tripod with H20 Beams . The Company takes pride in offering the Lowest Rental Charges of Scaffolding in U.A.E Market. This system provides a safe, multipurpose scaffold i.e. easily erected with a minimum of moving parts thus providing efficiency on speed and savings on cost. The decking systems provide a supporting grid for Flat & Hourdi Slab Construction, also facilitating standardized formwork suitable for beam, slab and trough. We also lease out light duty frames, props, scaffold boards & aluminum towers.

The Company offers services for CAD generated Drawings & Designs as per Safe Working Load for all scaffolding needs by Company's skilled qualified professionals and Engineers to the satisfaction of the consultant.

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PREQUALIFICATION DOCUMENT

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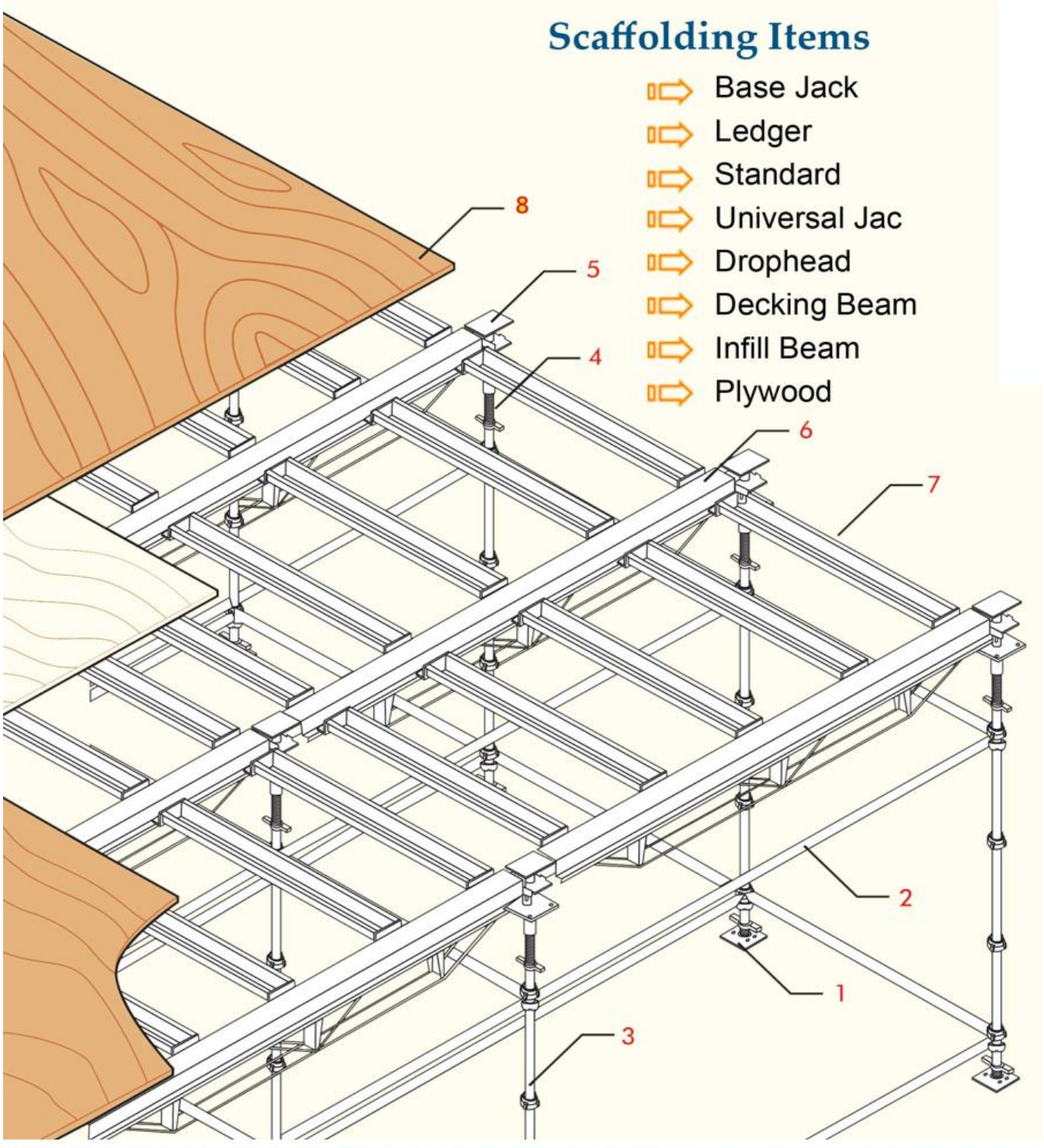

CUPLOK Scaffolding System

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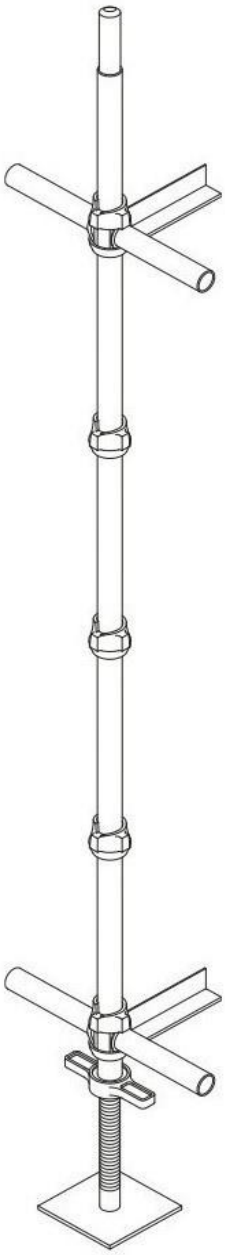
CUPLOK – Functional design with simplicity of connection

The CUPLOK system has been designed to meet the requirements of the construction and housing industries.
The success of CUPLOK lies in its principal design features:

- Speed of assembly
- Versatility of application
- Simplicity of components and their connection
- Galvanised components improve corrosion resistance
- Elimination of loose wedges
- No special tools required for assembly (hammer and spirit level only)
- Low maintenance.



CUPLOK – Easy to erect

No wedges – just a simple locking cup at each node point on the Standards enables connection of the ends of up to four members in one locking action. With all four members attaching at the same level the system is ideal for birdcage construction as well as conventional face scaffolding.

CUPLOK – Versatile in use

It is suitable for access or formwork support with an extensive range of special applications. The horizontal members can be angled to suit many different applications. The system has been used in triangular, trapesium and is ideal for curved surfaces.

CUPLOK – Proven design with safety accessories

The CUPLOK system has a proven performance history on an extensive number of sites, meeting the requirements of the various statutory bodies. A comprehensive range of accessories is available to cater for safety requirements such as guardrails, mesh panels, ladder access, stair access and components to provide overhead protection.

Important

The assembly guidelines contained in this booklet are the recommended methods to be used for CUPLOK products and must be accurately followed to achieve the correct function of the product. Seek advice from the Acrow Formwork & Scaffolding Engineering Department should you need to deviate from the recommendations and technical detail given in this manual.
Use and application of the CUPLOK system must be in accordance with AS1576, AS4576, AS3610, Occupational Health & Safety Regulations of the regulatory authorities and approved industry codes of practice. The illustrations in these assembly instructions are recommended guidelines only.

Product Codes

The product codes are shown on pages

Safety Warning

It is recommended that users of the CUPLOK system employ and implement appropriate procedures and control measures to eliminate or control any risk of possible musculoskeletal disorder/injury while manually handling CUPLOK components. Refer to your local regulatory authority for Codes of Practice on manual handling or other approved and recognised guidelines for correct and appropriate manual handling procedures.

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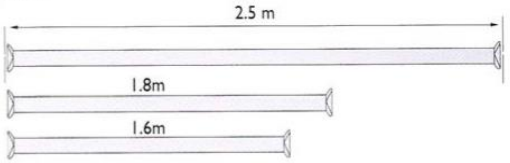
Cup-lock with Steel Decking and Infill System

Ledgers

All ledgers have identical forged blade ends, with minimum projection to avoid damage.

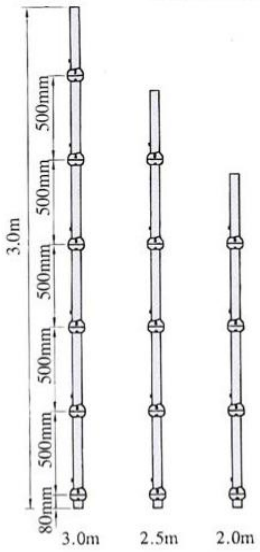
Other ledger sizes available are

1.3m, 1.2m, 1.0m, 0.9m



Standards

Maximum leg load capacity : 57kN



SIZE (m)	WT. (kg)
3.0	14.8
2.8	14.0
2.5	12.4
2.3	11.4
2.0	10.0
1.8	9.0
1.5	7.9
1.3	6.5
1.0	5.0
0.8	4.1

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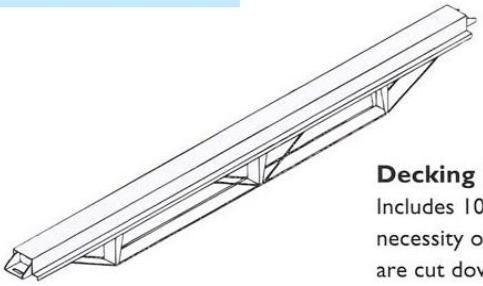
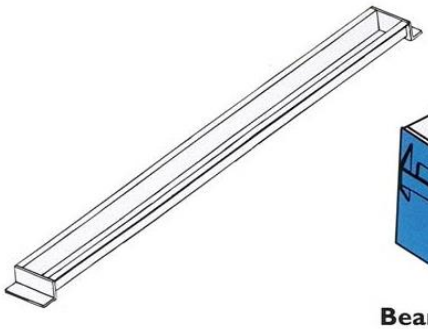
Cup-lock Decking Standard Components

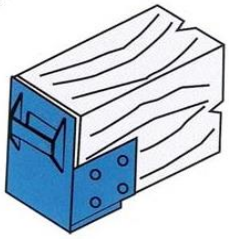


Length (m)	2.5	1.8	1.2
Weight (kg.)	26.4	18.0	11.9

Decking Beams

Includes 100mm wide top flange, which eliminates the necessity of a plywood infill,whereby maintenance costs are cut down.





Beam Shoe

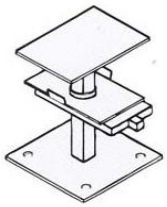
Infill Beams

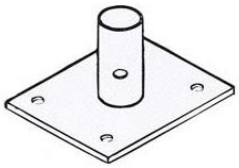
Used to provide skeletal support for plywood decking

Length (m)	1.7	1.5	1.2	0.9
Weight (kg.)	9.1	8.1	6.5	5.0

Dropheads

The quick action supplied by dropheads along with nuts and bolts, is designed to fit on standard props or adaptors for cuplock scaffolding.
Maximum axial load: 40kN



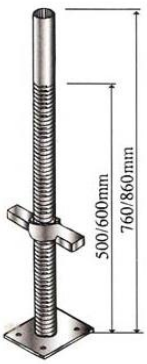


Socket Base (Adaptor)

It provides a base for the universal jack & also connects universal jack to drophead.

Intermediate Transoms

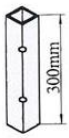
Length (m)	1.3	1.8	2.5
Weight (kg.)	5.5	7.3	9.5



BASE JACK

UNIVERSAL JACK

U-HEAD
150x170x5.8



CONNECTING PIN

BOLT & NUT

Adjustabe Jacks Sizes

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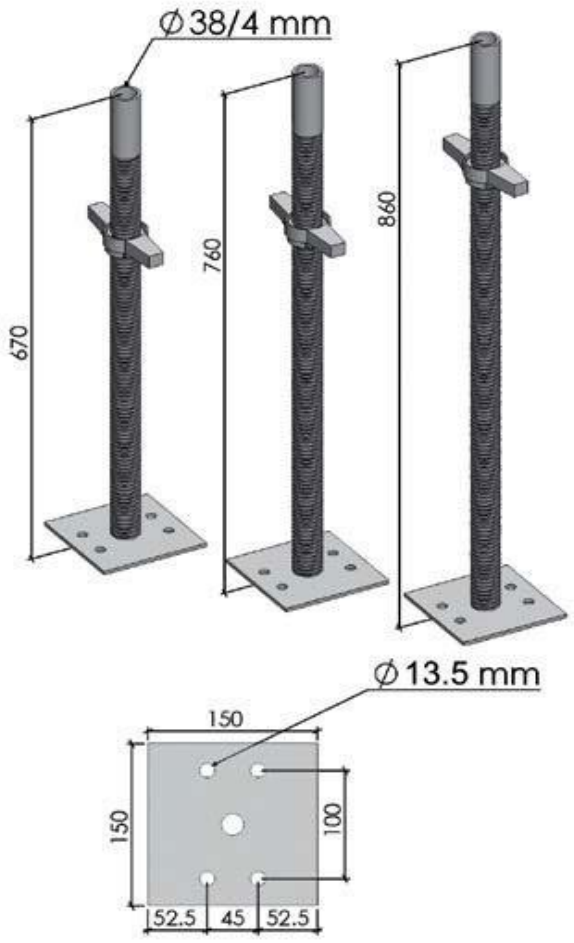
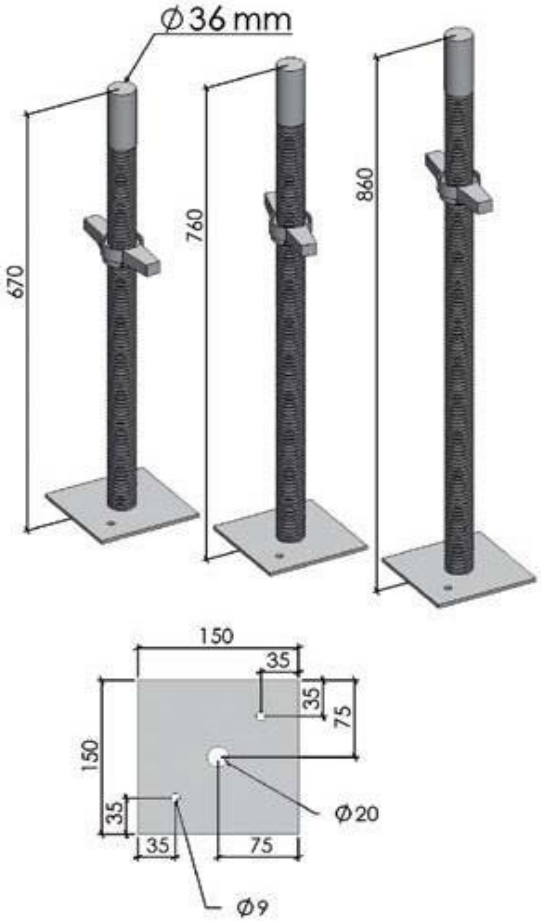
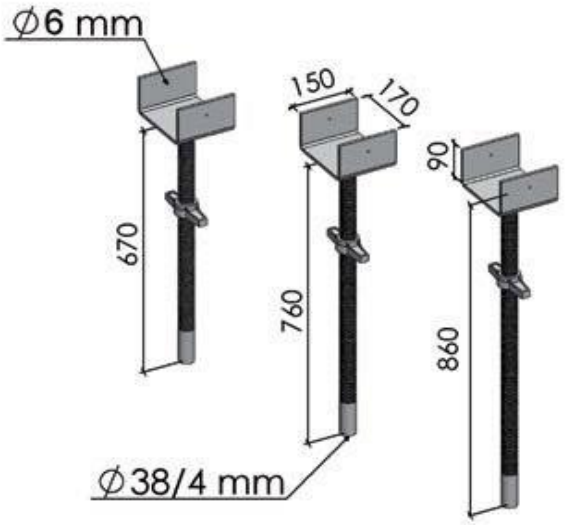
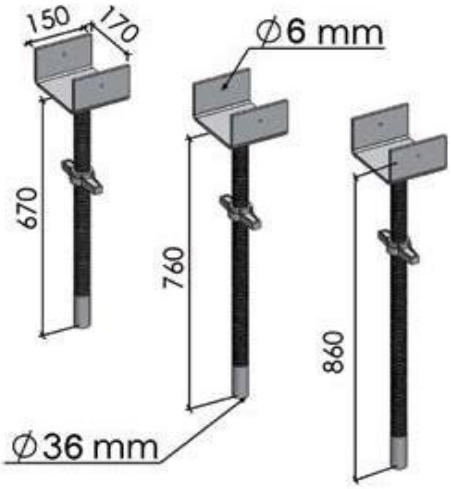


Thickness = 5 mm



Thickness = 5 mm





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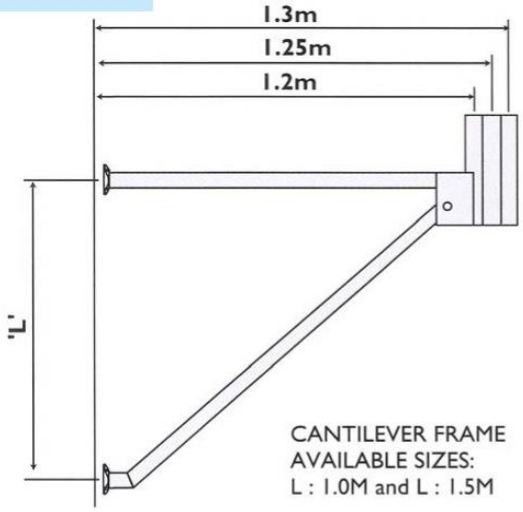
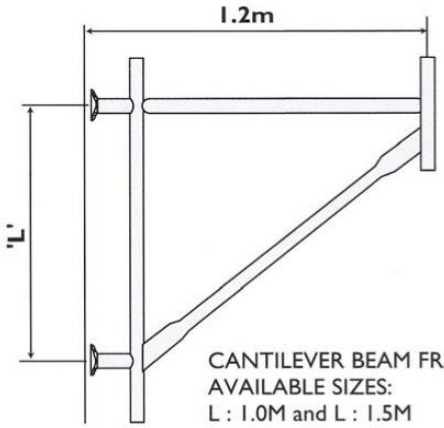
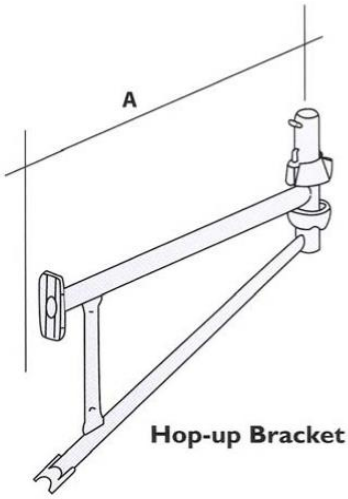
Slab Formwork



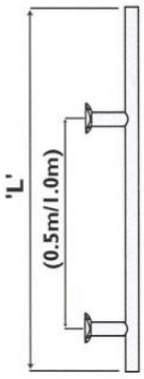
CANTILEVER FRAME
AVAILABLE SIZES:
L : 1.0M and L : 1.5M



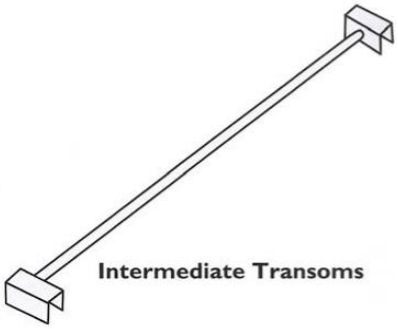
CANTILEVER BEAM FRAME
AVAILABLE SIZES:
L : 1.0M and L : 1.5M



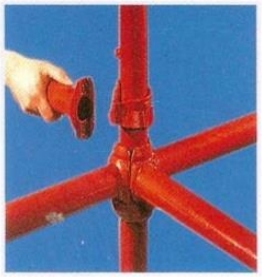
Hop-up Bracket



INTERNAL BEAM BRACKET
AVAILABLE SIZES:
L : 1.0M and L : 1.5M



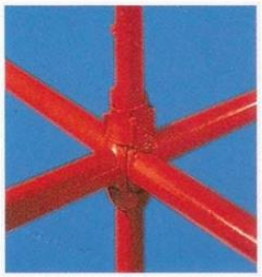
Intermediate Transoms



Locate the blade end of Horizontals into lower cup.

Lower the upper cup down the vertical and rotate

Tighten with a hammer blow



A positive & rigid connection of four units is achieved in one single action

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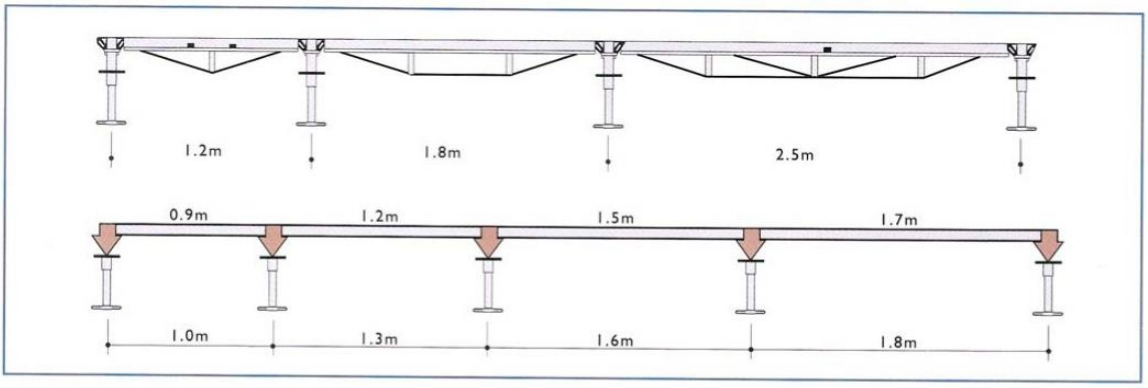
Technical Data for Cup-Lock Decking System

CUP Lock Decking System offers a Choice of 12 Supporting Grids



Supporting grids
A 1.8m x 1.8m
B 1.8m x 1.6m
C 1.8m x 1.3m
D 1.2m x 1.8m
E 1.2m x 1.6m
F 1.2m x 1.3m

Grid (mxm)	Slab Thickness (mm	In Fill Centres	Grid Area (m)	Leg Load (kN)
Type A Infill Beam 1.7m Beams 1.8m Long	100 150 160 200 250 280	610 610 610 488 488 488	3.24	14.4 18.4 19.2 22.4 26.3 28.7
Type B Infill Beam 1.5m Beams 1.8m Long	200 250 300 350 400 440	610 610 488 488 406 406	2.88	19.9 23.4 26.9 30.5 34.0 36.8
Type C Infill Beam 1.2m Beams 1.8m Long	350 400 450 500 550 600	488 488 406 406 348 348	2.34	24.75 27.6 30.5 33.3 36.2 39.1
Type D Infill Beams 1.7m Beams 1.2m long	100 125 150 200 250 280	610 610 610 488 488 488	2.16	10.1 11.5 12.9 13.7 18.5 20.2
Type E Infill Beam 1.7m Beams 1.2m long	200 250 300 350 400 440	610 610 488 488 406 406	1.92	13.2 15.6 18.0 20.3 22.7 24.5
Type F Infill Beams 1.2m Beams 1.2m long	400 450 500 600 660 730	488 488 488 488 406 406	1.56	18.4 20.3 22.2 26.0 28.3 31.0

Supporting grids
G 1.8m x 1.0m
H 1.2m x 1.0m
J 2.5m x 1.8m
K 2.5m x 1.6m
L 2.5m x 1.3m
M 2.5m x 10m

Grids (mxm)	Slab Thickness mm)	In Fill Centres	Grid Area (m)	Leg Load (kN)
Type G Infill Beam 0.9 Beams 1.8m Long	300 400 500 600 700 800	610 610 488 488 406 406	1.8	16.6 21.2 25.7 30.0 34.5 38.9
Type H Infill Beam 0.9m Beams 1.2m Long	600 700 800 900 1000 1250	488 488 406 406 348 348	1.2	20.4 23.0 25.9 28.9 31.8 39.1
Type J Infill Beam 1.7m Beams 2.5m Long	150 160 175 200 225 355	610 610 610 488 488 488	4.50	25.5 26.6 28.3 31.0 33.8 37.1
Type K Infill Beam 1.5m Beams 2.5m Long	150 200 250 275 300 320	610 610 610 610 488 488	4.00	22.7 27.6 32.5 35.0 37.4 40.0
Type L Infill Beam 1.2m Beams 2.5m Long	150 200 300 350 112	610 610 610 488 488 488	3.25	18.4 27.4 26.4 30.4 35.4 40.0
Type M Infill Beam 0.9m Beams 2.5m Long	200 300 400 450 500 560	610 610 488 488 488 488	2.5	17.3 23.4 29.5 32.6 36.6 40.0

The above figures are based on the maximum load carrying capacity of the infills, Decking Beams and 40kN capacity of Cup-lock drophead. Leg load calculations are based on concrete density of 24.3kN/m³ and super-imposed loads of 2kN/m² including the weight of the formwork.

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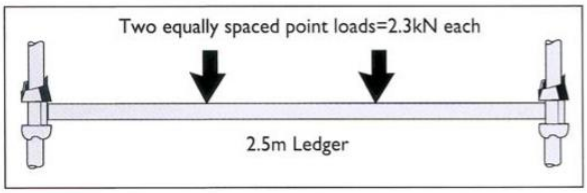
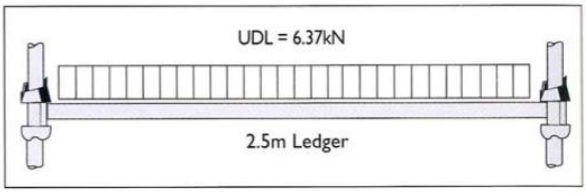
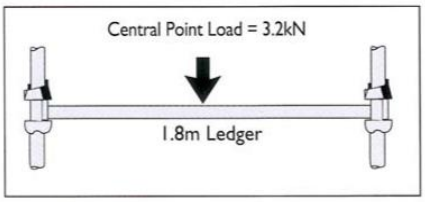
Cup-Lock Component Loadings

Permissible Loads on Horizontal Components

Permissible loads on the various components are shown in the diagram







CUP LOCK SUPPORT GUIDE

For standards at the beginning and end of a row, the loading figures for the top and base lifts have to be reduced by 5%, except if jack bracing is used. This also applies to the use of Cup-lock in towers and single bays. At least two lacing levels have to be used on each vertical. When calculating horizontal forces, include for wind forces, the effect of eccentricity, and out of plumb (in accordance with British Standard 5975).

Take care that structure is stable in the unloaded condition, especially if towers or narrow structures are used.
All standards should be erected plumb. Horizontal forces should be distributed over all verticals as evenly as possible. Sound footings should be provided to prevent settlement of the standards.

Permissible Loads on Base Components

Vertical Axial Load up to 57kN

The loadings will vary according to the horizontal loads taken into account and the actual extension of the Jack required.

86 cm Universal Jack

Permissible loads on standards (In false work structures only)

The tables below show the permissible loads per vertical for falsework structures incorporating suitable bracing. The values apply regardless of the type of formwork supported.
However, permissible loads can be influenced by a number of factors. If any doubt, reference should be made to the EXTRA CO Design Office.

Internal Verticals

Vertical Load (kN)		
Lift	1.8m Bay	2.5m Bays
1.0	57.0	57.0
1.5	55.0	54.0
2.0	40.0	36.0
2.5	26.0	25.0

External Verticals

Bay length (mm)					
Lift (m)	600	900	1200	1800	2500
1.0	57.0	57.0	57.0	57.0	57.0
1.5	55.5	54.5	53.5	52.0	51.0
2.0	38.0	36.0	34.5	34.0	32.0

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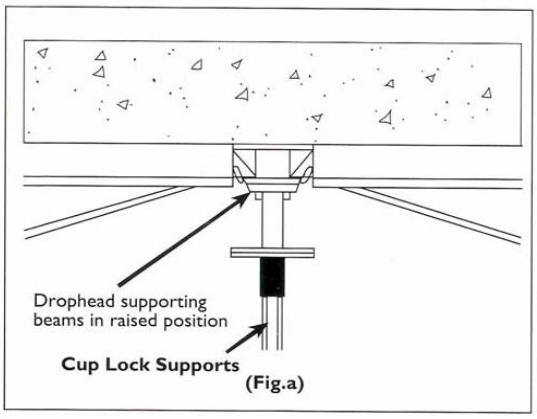
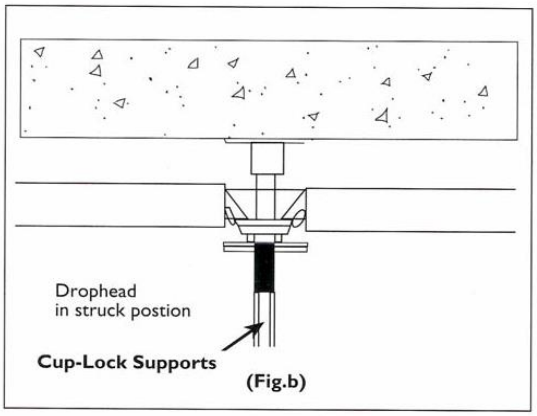
Cup-Lock Decking System Technique & Advantage of Early Striking

Explanation



(Fig.a)



(Fig.b)

The technique of early striking

Early striking is a technique whereby the formwork is removed 3 to 4 days after pouring a slab, but the supporting structure of scaffolding or props remains undisturbed until the concrete is strong enough to support its own weight over its full span.

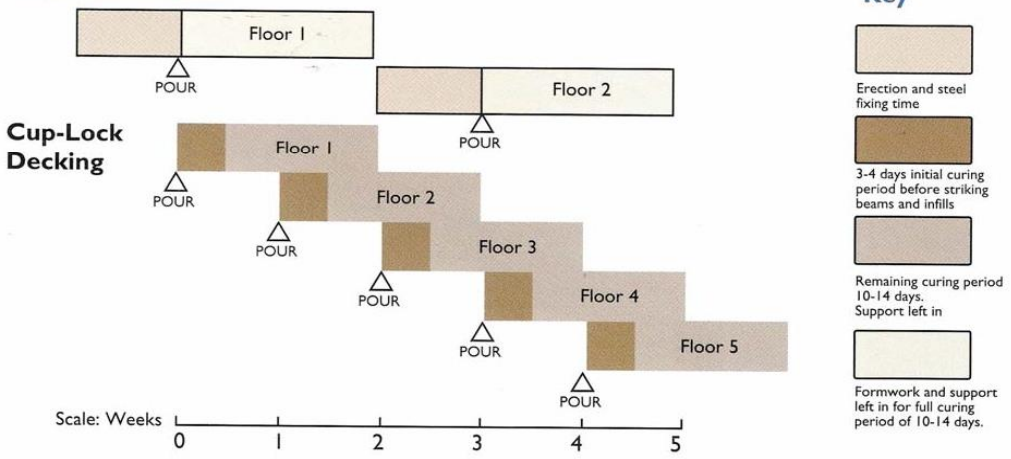
Concrete generally takes 28 days to attain its full constructional design strength. Most engineers will only permit the complete support to be removed after about 10 to 14 days, depending on the ambient temperature and cube strength tests.

With today's high costs of formwork, it is important to use it as frequently as possible. Traditional formwork locked in situation for 10 to 14 days with a pouring cycle in excess of this is outmoded by the Cup-lock early striking system and its facility to speed the cycle of operations. This practice has been widely accepted especially as the rising costs of materials and labour have proved that the early striking is safe, efficient and cost-effective.

How it is set

A complete set of cup lock decking and support is used for the 1st floor slab. Three to four days after pouring the concrete, the infills and decking beams may be struck for re-use on the 2nd floor slab while the support remains in place during the rest of the curing period. In practice it is found that supports around columns and close to walls & beams can be removed and this amounts to about 1/3 that are free for re-use. Therefore an approximate additional 2/3 of support will be required for the 2nd floor. Three to four days after pouring concrete on the 2nd floor, the formwork may be removed.

Traditional formwork



Based on 7day cycle, it can be seen how Cup-lock deckings increase output whilst employing less labour more effectively as it is used during curing periods.
Therefore less Cup-lock deckings can be used to achieve the same output as traditional methods

Adjustabe Jacks Inspection & Load Capacities

Test Conducted: With reference to ANSI/SSFI SC100-5/05 Standards for testing and rating scaffold assemblies and components and client's requirements.

Test Results:

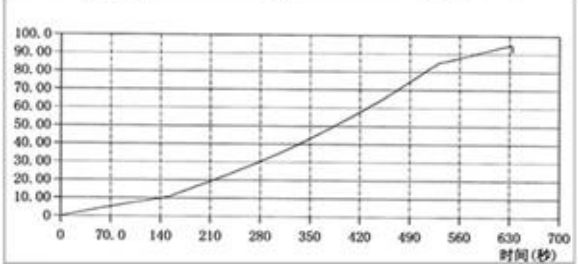
Manufacturer: /		Model # / Product Identification:/	
Test Date: 2016.7.15	Test # : 1,2	Test Location: SGS CCM Lab	Factor of Safety (FS):/
Reading			
Sample No.		Ultimate Vertical Load	Failure Mode
Test 1		155.0kN	The screw rod was bent and cracked
Test 2		145.0 kN	The screw rod was bent

Note: The maximum height from the bottom of the screw rod to the top surface of the handle nut is 200mm as per client's requirement.

Statement: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Test Photos:

Before test In test After test



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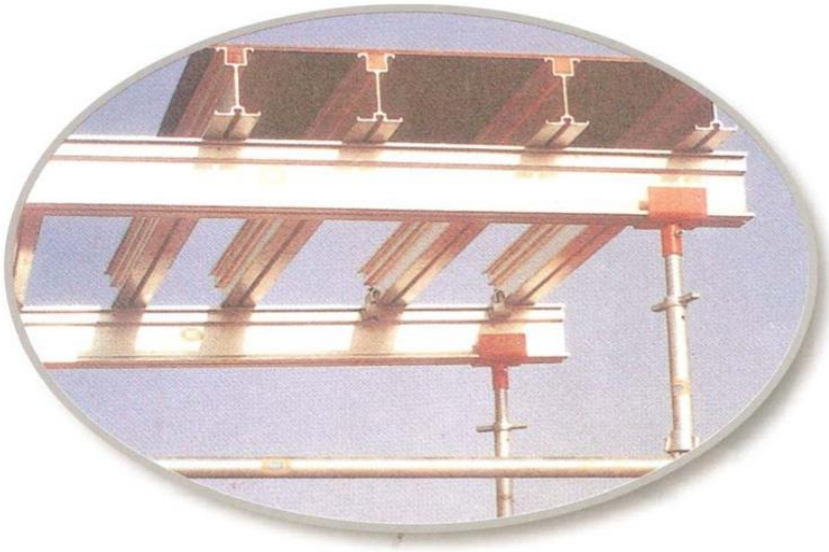
Alminium Beam System



Cup-lock combined with aluminum beam forms strong, lightweight, economical system.
It also reduces waste and site labour costs

G 6 BEAM

BENDING MOMENT EXCEEDS 6 kNM
SIZE 150 x 80MM
WEIGHT ONLY 3.162 Kg/m
STANDARD LENGTHS UPTO 7 METRES

G 12 BEAM

BENDING MOMENT EXCEEDS 12 kNM
SIZE 165 x 95MM
WEIGHT ONLY 4.750 Kg/m

(DESIGNED AND PRODUCED IN GCC)

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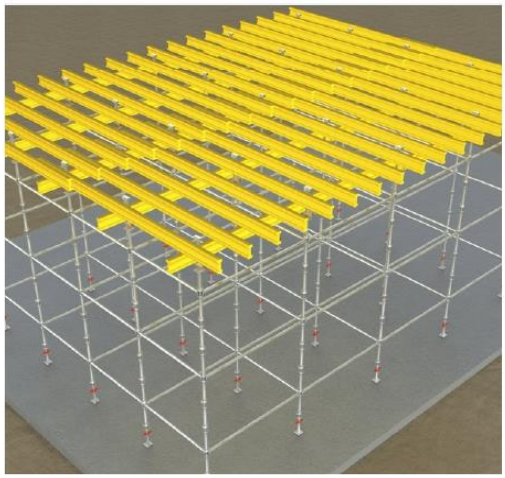
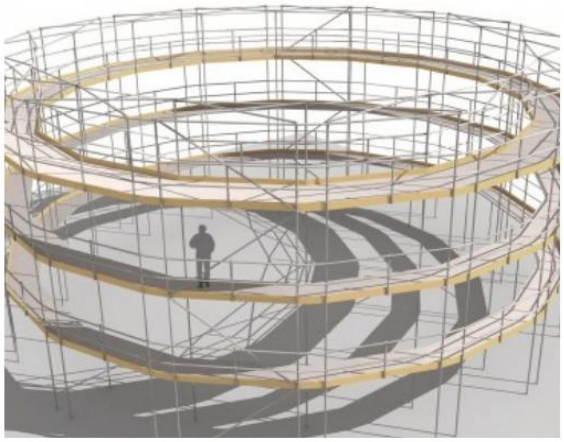
CUPLOCK APPLICATION



- Cup-lock Scaffolding is a temporary structure used to support a slab, work crew and materials to aid in the construction, maintenance and repair of buildings, bridges and all other manmade structures.
- Cup-lock is a fully galvanized or painted multi-purpose steel scaffold system suitable for providing general access and supporting vertical loads.
- All vertical standards and ledgers tubes are 48.3mm diameter with 3.00 or 3.20 mm thickness.
- Cup-lock is the world's most widely used system scaffold.
- Cup-lock's key feature is its unique circular node point which allows up to 4 horizontals to be connected to a vertical in a single fastening action-making it probably the fastest and safest system available.



- The ease of handling, easy storage space requirements and high load bearing capacity are the main reasons for its immense popularity.
- The comprehensive range of Cup-lock components allows it to be used with traditional scaffold boards or battens. It can be used to create a huge range of access and support structures, circular scaffolds, loading towers etc.
- Cup-lock Scaffolding is a multi-purpose system suitable for access and support in all types of construction of building & Civil engineering project.

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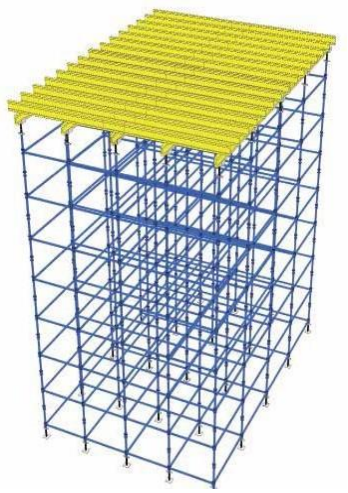
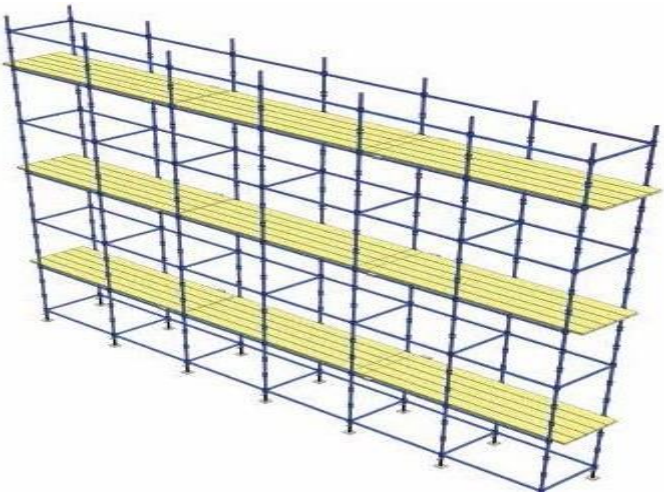
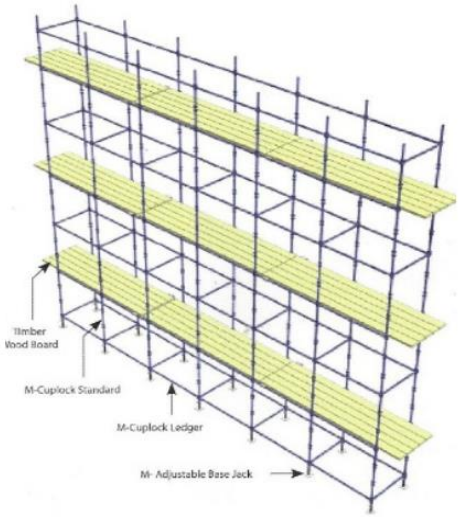
Cuplock Falsework to support and shuttering the concrete slabs
At different heights and levels





DESARCH™
SCAFFOLDING



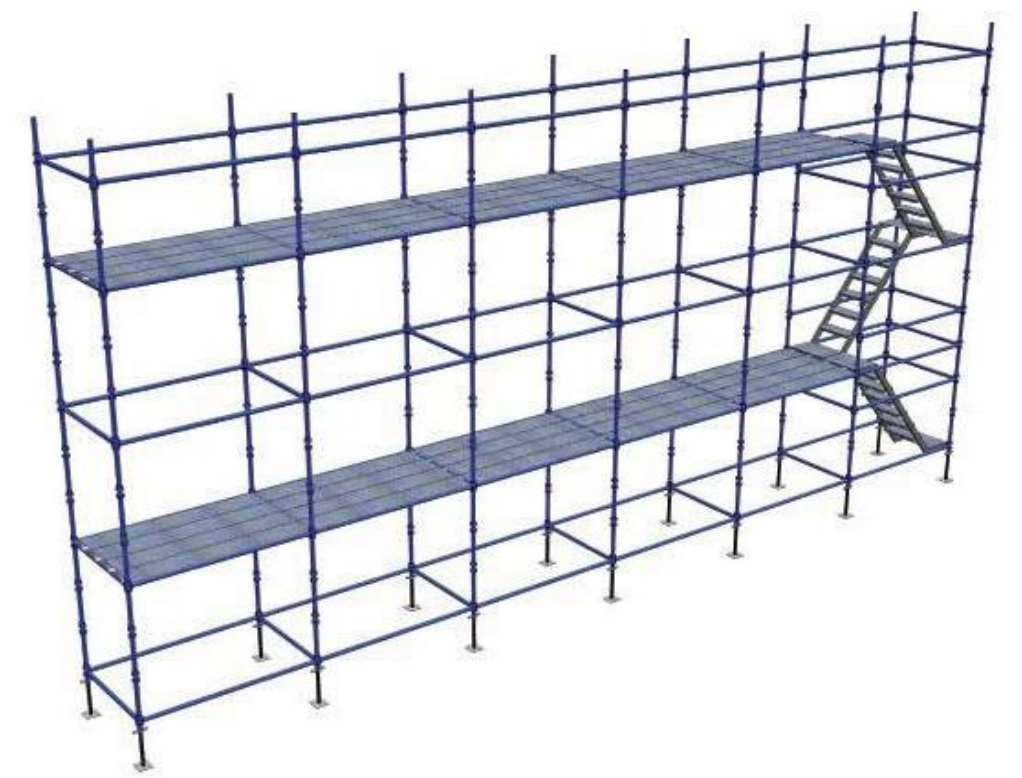
Cup-lock versatility and wide range of accessories make it an ideal system for almost any situation, from simple domestic building projects to the most complex access and support structures .Its ability to follow curve sand complex profiles make it equally suitable for mainly industrial maintenance situations.

Support Structures

- Cup-lock is widely used to create falsework support structures.
- Its high leg load capacity and range of components gives the system capability to tackle virtually any support applicatio
- For formwork support a wide range of grid variations can be created to suit the loading requirements.
- The key advantage of Cup-lock of support structure is its unique node point (i.e., four connections in one action)
- Cup-lock scaffolding is lighter than traditional scaffolding.

Cuplock Staircase and Planks

DESARCH™
SCAFFOLDING



DESARCH™
SCAFFOLDING

Access Towers

- Square or rectangular access towers can be erected with standard Cup-lock components using either jacks and base plates
- The working platform can be formed using either scaffold boards or battens.
- All Access Scaffolds must comply with the general requirements of the Construction (Health, Safety & Welfare) Regulations 1996 & Code of Practice BS5973.
- BaiLi Cup-lock system meet the requirements of the international standard for health and safety Cup-lock constructs and maintains an installation that can seriously affect the life acceptance and efficiency of the finished installation.

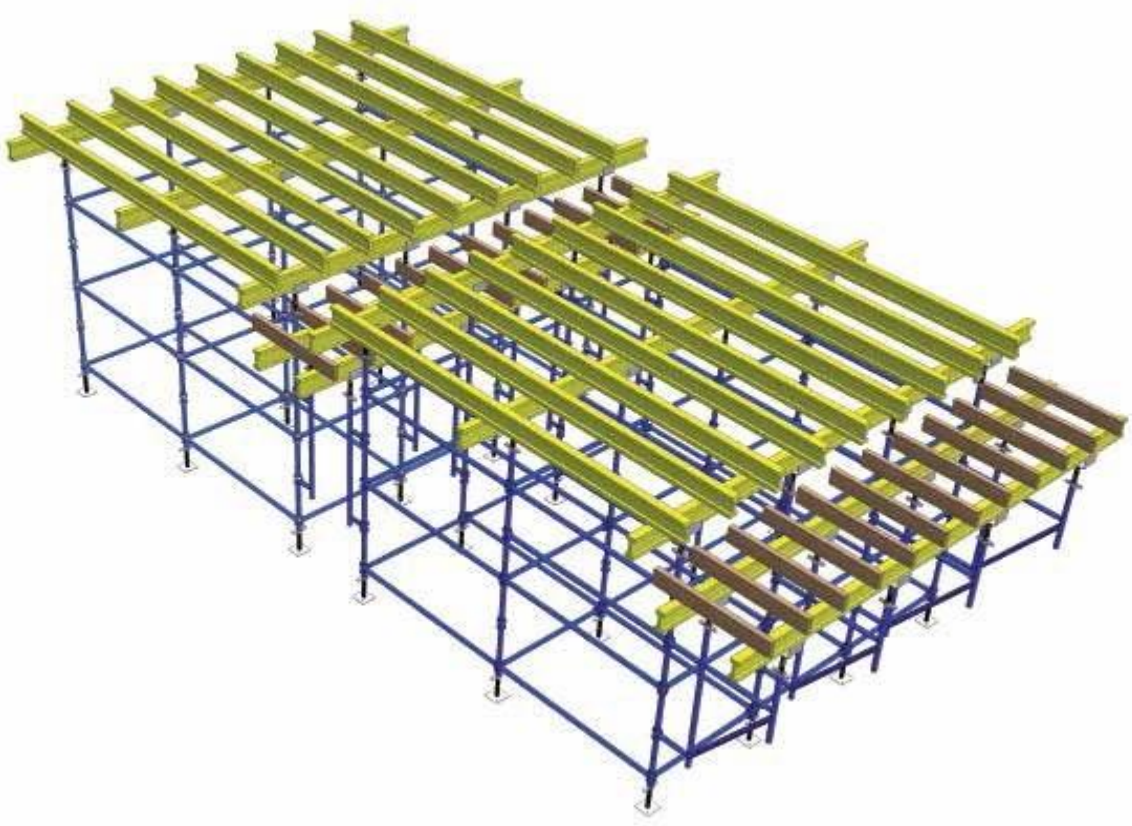
Cup-lock Scaffolding System is suitable for support structures applications through the following:

1. High standard load capacity.
2. Range of components that give the system capability to tackle virtually any support application.
3. Formwork supports wide range grid variations that can be created to suit the loading requirements and any structures types and heights.

Characteristics

Cuplock SUPPORTING FLOOR SLABS

DESARCH™
SCAFFOLDING



LIST OF MAJOR CLIENTS / CONSULTANTS

DESARCH™ SCAFFOLDING

NO	COMPANY NAME	CONSULTANT	PROJECT
1	SALEH CONSTRUCTION LLC	M/S LACASA	PROPOSED G+3P+19 STOREY RESIDENTIAL BUILDING ON PLOT NO JVC 12NHR 003 @ AL BARSHA SOUTH 4TH -681 DUBIA UAE
2	GLOBAL CONTRACTING LLC	BARAJEEL ENGINEERING CONSULTANTS	PROPOSED B+G+M+4P+GYM+23TYP+ROOF ON PLOT NO 345-430 AT DOWNTOWN DUBAI
3	TRANSEMIRATES CONTRACTING LLC	ALAJMI CONSULTANT ENGINEERING	PROPOSED 2B+G+3P+28+R COMMERIAL AND RESIDENTIAL BUILDING ON DM PLOT NO SP-B-025 @ TECOM INVESTMENT FZ-LLC (DUBIA SCIENCE PARK)
4	AL HIKMA BUILDING CONTRACTING LLC	ARCHEN ENGINEERING	PROPOSED G+3P+12 FLOOR RESIDENTIAL BUILDING ON PLOT NO 373-4532 AL BARSHA , DUBAI, UAE
5	ALI MOOSA & SONS CONTRACTING	NATIONAL ENGINEERING CONSULTANTS	MIXED USE BUILDING 4B+G+H.C+MECH'L+40 FLOOR (RESIDENTAIL)+ROOF PLOT NO 3930975, JLT, DUBAI UAE
6	UNION CONTRACTING LLC FOURTH PLOT NO JVC15BMRH010	BEL-YOAHAH	RESIDENTIAL &COMMERCIAL BUILDING G+4P+18TYP @ AL BARSHA SOUTH
7	SGCC SQUARE GENERAL CONTRACTING CO LLC	ARCHITECTURAL CORNER CONSULTANTS	2G+G+M+10 FLOOR KHALIDIA HOTEL @ PLOT NO 1246578 LOCATION MURAQQBAT DUBAI
8	DONE CONTRACTING LLC	JOUZY ANANTA	G+2P+10 AL FURJAN 4 LOCATION AL FURJAN DUBAI
9	PARK WAY INTERNATIONAL CONTRACTING LLC	DOME CONSULTING ENGINEERS	G+3P+9-ROOF FLOOR COMMERCIAL BUILDINGPLOT NO JVC10CMRM001LOCATION AL BARSHA SOUTH FORTH 681
10	AL TAYER STOCKS L.L.C	DESIGN AND ARCHITECTURAL BUREAU	NEW COMMERCIAL & RESIDENTIAL B
11	ARIFCO BUILDING CONTRACTING	BHNS ENGINEERING CONSULTANTS	80-JEBEL ALI
12	ASHIYANA CONTRACTING L.L.C.	ARCH GROUP CONSULTANTS	SHARJAH IND. 17
13	CITY NIGHTS CONTRACTING LLC	GOLDEN SQUARE ENGINEERING CONSULTANTS	82-G+4 LAB.ACCOM
14	GLOBAL GREEN BRIDGE CONT.L.L.C	AL KHAWAJAH ENGINEERING CONSULTANTS	G+4 LABOUR ACCOMODATION AT JEBEL ALI
15	SALEH CONSTRUCTION	DESIGN CENTER	B+G+M+2+HIC RESIDENTIAL BLDG. AT AL KARAMA DUBAI
16	GOLDEN WING CONTRACTING.	NEXT ENGINEERING CONSULTANTS	GROUND+MEZZ.+2TYP FLOOR COMMERCIAL+OFFICE & RESIDENTIAL BLDG. AL KHABAISI, DUBAI.
17	CHICAGO MAINT. & CONST .CO. LLC	GAJ ARCHITECTURAL & CIVIL ENG	GEMS INTERNATIONAL (G+2) SCHOOL, AL KHAIL DUBAI
18	AL HIKMA BUILDING CONTRACTING	AL ABDOOLI ENGINEERING CONSULTANTS	ISLAMIC AFFAIRS-MOSQUE(JUMMA) QURAN SCHOOL WADI ALAMADI,U.A.E
19	ROTANA CONTRACTING	ROKN AL HANDASA CONSULTING ENGG	GROUND+6 BUILDING AL WARQA'S FIRST
20	AROMA INTERNATIONAL	ARC INTERNATIONAL ENGINEERING CONSULTANTS	PROP BIRDS MARKET COMPLEX AT WARSAN THIRD, DUBAI.
21	TRIPLANET INTERNATIONAL FZC	BARAJEEL ENGINEERING CONSULTANTS	7 RESIDENTIAL BUILDINGS IN SPORTS CITY DUBAI
22	UNION CONTRACTING	TEO A. KHING DESIGN CONSULTANTS SDN BHD, (DUBAI)	DEVELOPMENT AND CONSTRUCTION OF THE MEYDAN BUSINESS PARK
23	AL BWARDI ENGINEERING	PARADISE HOME ENGINEERING	GRD FLOOR+ROOF SERVICES SHOPPING MALL AT UMM AL SHEIF
24	LARSEN & TOURBO LIMITED	TRANSCO	132/33KV SUBSTATION AT SUDHA PORT IN FUJAIRAH
25	BELHASA ENGINEERING & CONTRACTING CO. LLC	HOLFORD ASSOCIATES	3B+G+M+3 UPPER COMMERCIAL & OFFICE BUILDING
26	AMANA STEEL & BUILDING CONSTRUCTIONS	OBE CONSULTANT	DP WORLD
27	IDEAL SYSTEM CONSTRUCTION	ELITE ENGINEERING CONSULTANTS	HOTEL (2B+G+3+PENTHOUSE) HOR AL ANZ
28	MS LOOTAH CONSTRUCTION	RENDERES ENGINEERING	B+G+4 ROOF BUILDING @AL WARQA
29	ARMADA CONTRACTING LLC	MODEL ENGINEERING CONSULTANTS	PROPOSED G+M GROUP OF 61 WAREHOUSE UNITS+ OFFICE ON PLOT NO IMPZ.C.47 AT MEAISEM FIRST DUBAI PRODUTION CITY, DUBIA , UAE
30	SPAN STEEL CONSTRUCTION LLC	WINNER HOLISTIC CONSULTANT	PROPOSED G+M+1OFFICE & WAREHOUSE ON PLOT NO TP030507 TECONO PARK , DUBIA , UAE
31	ADNAN CONTRACTING LLC	DESIGN CENTER	PROPOSED 3B+G+P+15 RESIDENTAIL BUILDING PLOT NO - AFMU029B AT JABAL ALI FIRST, MORANO -3 AND PLOT NO AFMU029A AT JABAL ALI FIRST, MORANO -2
32	TAV INVESTMENT CONSTRUCTION & OPERATIONS		AL MAKTAB AL ASRI ENGINEERING CONSULATANT SULAFA TOWER 4B+G+4P+66 TYPICAL +2S+2PH+1HC RESIDENTAL TOWER MARSA DUBAI
33	FAMILY STAR CONSTRUCTION LLC	WINNER CONSULTANTS & ENGG.	LABOUR ACCOMODATION AT JEBEL ALI

Test Certificates & Alum Profile

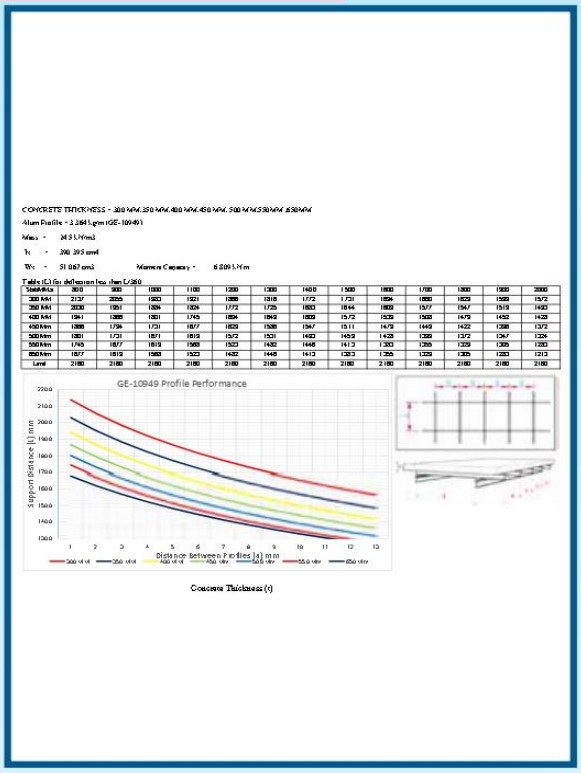
DESARCH™ SCAFFOLDING

Independent Soil Testing Laboratories LLC

مختبرات المستقلة لفحص التربة ذ.م.م

REPORT ON LOAD TEST OF SCAFFOLDING PROPS FOR FALSEWORK EQUIPMENT

(BS 5507 Part 3: 1982)



CONCRETE THICKNESS - 300 MM, 350 MM, 400 MM, 450 MM, 500 MM, 550 MM, 650 MM

Alum Profile - 3.3641 gyro (GE-10949)

Mass - 34.51 N/m

Ix - 390.395 cm4

Wx - 31.067 cm3 Moment Capacity - 6.209 kN-m

Table (L) for deflection less than L/250

Slab Mtrs	300	350	400	450	500	550	600	650	700	750	800	850
300 MM	2137	2055	1983	1921	1866	1818	1772	1731	1694	1660	1629	1599
350 MM	2030	1951	1884	1826	1772	1725	1683	1644	1609	1577	1547	1519
400 MM	1941	1868	1801	1745	1694	1648	1608	1572	1538	1508	1479	1452
450 MM	1868	1796	1731	1677	1628	1586	1547	1511	1478	1448	1422	1396
500 MM	1801	1731	1671	1619	1572	1531	1493	1459	1428	1398	1372	1347
550 MM	1745	1677	1619	1569	1523	1482	1446	1413	1383	1355	1329	1305
650 MM	1877	1819	1568	1523	1482	1446	1413	1383	1355	1329	1305	1283
Limit	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180	2180

GE-10949 Profile Performance

Support Distance (L) mm

Distance Between Prop/Ties (a) mm

Concrete Thickness (t)

AL HOTY - STANGER LABORATORIES

Independent Testing Laboratories and Materials Consultants

مختبرات الحوطي ستانجر

TEST REPORT

LOAD TEST ON CUPLOCK STANDARD

Report date : 29.08.17

Report number	D17 – 276137-1
Project name	Quality Assurance
Client ref./ request no.	Not given
Sample description as identified by client	Cuplock Standard (3.00m)
Source/ Local Supplier	Not given
Sampled by	Client
Date/time sample received	22.08.17/ 1200 Hrs.
Date tested	28.08.17
Tested by, name/location	ABS / DXB

Results :

Peak load, (kN)	Observation
44.0	Buckling of standard

Remarks : None

This report relates only to the sample tested and shall only be reproduced in full and with the written approval of AHS Laboratories

Alquinet Agut

DHOD- Civil Department, Dubai.

Page 1 of 1

ISO 9001 CERTIFIED

AL HOTY - STANGER LABORATORIES

Independent Testing Laboratories and Materials Consultants

مختبرات الحوطي ستانجر

TEST REPORT

CLIENT:

LOAD TEST ON BASE JACK & U- HEAD

Report date : 20.11.17

Report number	: D17 –166960-1	Source/ Suppliers	:
Project number	: Not given	Sample location	: Site stock
Project name	: Quality Assurance	Sampled by	: Client
Project location	: Not given	Sampling date/time	: Not given
Consultant	: Not given	Sampling method	: Not given
Client ref./request no.	: Not given	Sample delivered by	: Client
Sample description as identified by the client	: Base jack (540mm open) U - Head (540mm open)	Date/time sample received	: 17.11.17/ 1120 Hrs.
		Date tested	: 19.11.17
		Tested by, name/location	: JMR/ DXB

Test method : As shown in the photograph

Results:

Applied load (kN)	104.8
Mode of failure	Failure of base jack 4 u- head

Remarks : None

This report relates only to the sample tested and shall only be reproduced in full and with the written approval of AHS Laboratories

Joseph Mathew

Head of Physical/Mechanical Dept.

Dr Mathew Antholeeses Manager

For Al Hoty-Stanger Laboratories.

Page 1 of 1

ISO 9001 CERTIFIED

Desarch Building Contracting L.L.C.

RE-PROPING CALCULATION FOR TYPICAL FLOOR SLAB

Client : M/s. AL TAYER REALSTATE COMPANY
Project : PROPOSED B+G+4 FLOORS COMM. & RES. BUILDING ON PLOT No. 6183697 AT NADD AL SHIBA 1st. DUBAI

Slab thickness	= 270 mm	Area =	7992 sqm	
Cycle time	= 15 days	Iner Height =	6.3 m MAX.	

Load from the fresh slab (1st Floor)

Dead Load of fresh slab	= 0.27 x 25 kN/m3	=	6.75 kN/m²
Formwork Load		=	0.50 kN/m²
Construction Live Load on formwork		=	1.50 kN/m²
Total Load from fresh slab		=	8.75 kN/m²

Load acting on bottom Slab - 1 (Ground Floor)

Load from fresh slab		=	8.75 kN/m²
Self Weight of bottom Slab-1	= 0.3 x 25 kN/m3	=	7.50 kN/m²
Total load acting of bottom Slab-1		=	16.25 kN/m²
Less strength achieved by slab-1 after 15 days is 98.3 % (refer Table-B)		=	11.55 kN/m²
(For designed load of slab refer Table-A below)			
Total Load to be Transferred to bottom Slab-2		=	4.70 kN/m²

Re-Proping to be provided for SLAB-1 as Calculated below

Capacity of prop	= 20 kN		
Required Spacing of Props	= sqrt (20 / 4.7)	=	2.06 m

Table-A : DESIGN LOAD OF SLAB ASSUMED

Self weight of slab	= 0.27 x 25 kN/m3	= 6.75 kN/m²
Live load		= 5.00 kN/m²
Floor finish		= kN/m²
Partition load		= kN/m²
Total Designed load		= 11.75 kN/m²

Table-B : STRENGTH OF CONCRETE ASSUMED

Base Data => 3 days = 60%, 7 days = 85%, 14 days = 98%, & 21 days = 100%

After 15 days	98.3% = 0.983 x 11.75	= 11.55 kN/m²
More than 21days	100.0% = 1 x 11.75	= 11.75 kN/m²
More than 21days	100.0% = 1 x 11.75	= 11.75 kN/m²
More than 21days	100.0% = 1 x 11.75	= 11.75 kN/m²

Color Coding

LACASA Architects & Engineering Consultants | SALEM CONSTRUCTIONS L.L.C

Project: Proposed G+3P+19 Storey Residential Building - On Plot No. JVC12NHRS003 at Jumeirah Village Circle, Al Barsha South Fourth-681, Dubai – UAE

SHOPDRAWING SUBMITTAL

Date: 10/12/2016

Title/Subject: Shop Drawing Submittal for Scaffolding Layout at First Podium Slab & Typical Floor Slab.

Attachment Details

Sr.	Title	Shop Drawing Reference	Revision
1	Scaffolding Layout of First Podium Slab	DBC/H/2016/0937	
2	Scaffolding Layout of Typical Floor Slab	DBC/H/2016/2937	
3			

Category: ☐ Structural ☐ Architectural ☐ Mechanical ☐ Electrical ☐ Others Specify:

The Contractor's Representative Signature

Date: 6-12-017

- Calculations not submitted under contractor's responsibility.
- Third party check shall be submitted for Authorities and regulations.
- contractor to take into consideration different loads at ground floor slab.
- prop spacing not submitted.
- contractor to take into consideration Drop Beams at slab.

APPROVED AS NOTED

For The Employer

12.02.2017

RECEIVED 13 FEB 2017

Desarch Building Contracting L.L.C.

Date : 04 - 03 - 2017

To,

M/s. CITY DIAMOND CONTRACTING.
P.O.Box:-37927 ,Dubai, U.A.E.
Tel:-971 4 3300910, Fax:-971 4 3300972

Dear Sir,

In compliance with your request the undersigned inspected the scaffolding supports for Mezzanine Floor Slab ,

SCAFFOLDING INSPECTION REPORT

Consultant	: M/s. ARCHCORP Architectural engineering
Client	: UNITRA METS DUBAI,UAE
Contractor	: M/s. CITY DIAMOND CONTRACTING.
Project	: UNITRA METS LOGISTICS & WAREHOUSING FACILITY UMM RAMOOL, DUBAI,UAE
Area	: MEZZANINEFLOOR SLAB.
Scaffold Type	:Cup Lock Type (D LOCK)
Designed by	: M/s. DESARCH BUILDING CONTRACTING L.L.C. (SCAFFOLDING DIVISION)
Erection By	: M/s. CITY DIAMOND CONTRACTING.
Scaffolding Supplier	: M/s. DESARCH BUILDING CONTRACTING L.L.C. (SCAFFOLDING DIVISION)

Post erection inspection is performed and found in accordance of Shop drawings by M/s DesarchBuilding Contracting L.L.C.(Scaffolding Division).

Scaffolding Erection is found Erected as per drawing approved by you and Found ok for Pouring.

For Desarch Building Contracting L.L.C.

04-03-17

Received 4/3/17

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laceco architects & engineers — received on: 30/04/2018 10:45 AM

CLIENT	CONSULTANT	CONTRACTOR
MAJID AL FUTTAIM	laceco architects & engineers	Al Tayer Stocks LLC

SUBMITTAL COVER SHEET

TILAL AL GHAF SHOW VILLAS & SALES PAVILION — Submittal No: AT/J/GHAF/S3025/SD/STR-067

Description: 3 Bedroom Villa First Floor Scaffolding Layout

Sub Contractor / Manufacturer: Desarch

Location / Use: PLOT-TG.A01.004- 3 Bedroom Villa

DESIGN CONSULTANT'S COMMENTS

- Contractor to verify slab limits according to approved shop drawings.
- prequalification of Desarch to be submitted for Engineer's review and approval.

CONTRACTOR'S REVIEW — The contractor has reviewed this submission prior to submission to the Consultant

SUBMITTAL REVIEW STATUS

☐ A Approved
☑ B Approved with Comments
☐ C To be Resubmit
☐ D Rejected

DESIGN CONSULTANT'S SIGNATURE — For and on behalf of Consultant — Date: 3.05.2018

PROJECT MANAGER'S APPROVAL — For and on behalf of Project Manager — Date:

Distribution: Original to Al Tayer Stocks
Copies to: Subcontractors

DESARCH™
SCAFFOLDING

سي اتش سي لمقاولات البناء ش.ذ.م.م CHC Building Contracting L.L.C	PROPOSED RESIDENTIAL BUILDING (B+G+4) For: KHALED AHMED QASSEM AL KHATIB (NAFFCO) Plot No. (681-1011) @ Al Barsha South 4th, Dubai, U.A.E.	آرت للاستشـــارات استشاريون في العمارة و الهندسة ART CONSULTANTS CONSULTING ARCHITECTS & ENGINEERS

ART-2015-05

SHOP DRAWINGS SUBMITTAL	REF No. SD-12 / J-170	REV No.

Discipline: ☒ Civil/Structural ☐ Architectural ☐ Electrical ☐ Mechanical ☐ Plumbing ☐ Others

To: **M/s. ART Consultants:**
Please find attached the following shop drawings for your approval/comments:

S. #	Drawing No.	Rev.	Title	Remarks
1	DBC/B2018/2120		WATER TANK & PUMP ROOM SLAB	
			SCAFFOLDING LAYOUT	

We hereby confirm that the undersigned have reviewed the drawings. **Approval required by:**

CHC Building Contracting L.L.C
Tel: +971 4 450 8661, Fax: +971 4 450 8626
P.O.Box 49211, Dubai - UAE

CHC Building Contracting LLC		18-Feb-18
Submitted By:	**Signature & Stamp:**	**Date:**

ART CONSULTANTS COMMENTS:

☐ Approved
☑ Approved with Comments
☐ Not Approved, Resubmit

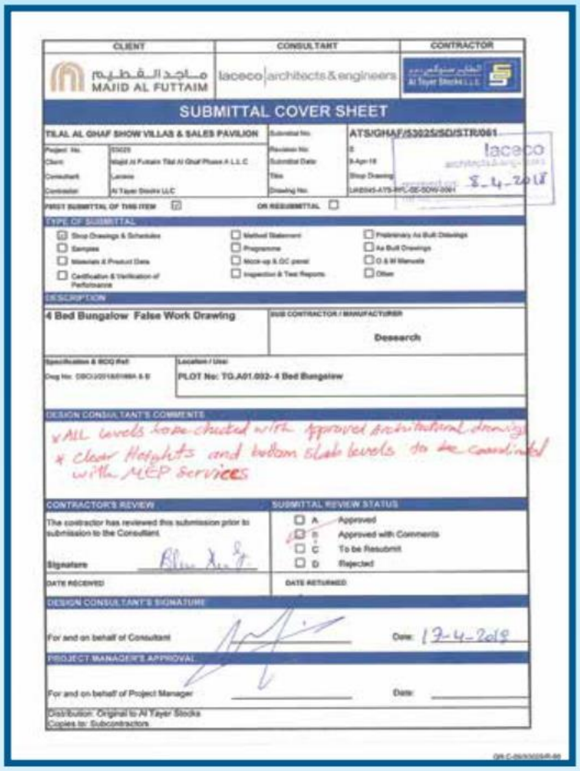
Comments:

- Scaffolding is solely main contractor responsibility.
- Submit prequalification of the scaffolding contractor for engineer approval.
- Scaffolding shall be fixed by certified labor & certified by the safety engineer.
- Submit scaffolding safety certificate prior to pour the concrete.

ART CONSULTANTS
13-FEB 2018
Time: 11:54 By:
RECEIVED

Checked by: Eng. Raad Zarak
Stamp & Signature: **Date:** 20/2/2018

Note: ART Comments shall not be considered as a reason of claim of any type unless it is issued via E.I. The contractor should seek an E.I. if he considers that ART comments contains financial or time impact.



CLIENT: MAJID AL FUTTAIM | CONSULTANT: laceco architects & engineers | CONTRACTOR: Al Tayer Stocks L.L.C

SUBMITTAL COVER SHEET

TILAL AL GHAF SHOW VILLAS & SALES PAVILION — Submittal No. ATS/GHAF/53025/SD/STR/061

Project No. 53025
Client: Majid Al Futtaim Tilal Al Ghaf Phase A L.L.C
Consultant: Laceco
Contractor: Al Tayer Stocks LLC
Revision No. 0
Submittal Date: 8-Apr-18
Title: Shop Drawing

FIRST SUBMITTAL OF THIS ITEM ☑ OR RESUBMITTAL ☐

TYPE OF SUBMITTAL
☑ Shop Drawings & Schedules ☐ Method Statement ☐ Preliminary As Built Drawings
☐ Samples ☐ Programme ☐ As Built Drawings
☐ Materials & Product Data ☐ Mock-up & QC panel ☐ O & M Manuals
☐ Certification & Verification of Performance ☐ Inspection & Test Reports ☐ Other

DESCRIPTION
4 Bed Bungalow False Work Drawing
SUB CONTRACTOR / MANUFACTURER: Desearch
Location / Use: PLOT No: TG.A01.002- 4 Bed Bungalow

DESIGN CONSULTANT'S COMMENTS
* ALL levels to be checked with approved architectural drawings
* Clear Heights and bottom slab levels to be coordinated with MEP Services

CONTRACTOR'S REVIEW
The contractor has reviewed this submission prior to submission to the Consultant.
Signature

SUBMITTAL REVIEW STATUS
☐ A Approved
☑ B Approved with Comments
☐ C To be Resubmit
☐ D Rejected

DATE RECEIVED — DATE RETURNED

DESIGN CONSULTANT'S SIGNATURE
For and on behalf of Consultant — Date: 17-4-2018

PROJECT MANAGER'S APPROVAL
For and on behalf of Project Manager — Date:

Distribution: Original to Al Tayer Stocks
Copies to: Subcontractors

ALAJMI — Client: Sheikh Sultan Saeed Sultan Suwaidi Al Dhahiri — Transemirates

SHOP DRAWING SUBMITTAL

Client: Sheikh Sultan Saeed Sultan Suwaidi Al Dhahiri
Consultant: AL AJMI ENGINEERING CONSULTANTS
Contractor: Transemirates Contracting LLC

S. N.	Shop dwg No.	Rev.	Date	Dwg Title	Contract Dwg No.	No. of copies Hard	Soft
1		1	30-11-2016	Podium Floor Slab With Ramp Form work		2 Set	1

Submitted by Contractor: Mahmoud Moustafa, Project Manager
Received by Engineer: 02 JAN 2017 ALAJMI

Civil / MEP Engineer's Instructions and Comments:
* Formwork design and safety is main contractor responsibility
* work to be inspected and approved by 3rd party

Area Manager's Comments

Received by Contractor: 07 JAN 2017

Spinneys سبينس

LOCI — NEA — WME

PREQUALIFICATION AND MATERIAL APPROVAL

Client:	AL SEER GROUP	PROJECT	Spinneys HQ & Retail office building
Consultant:	LOCI Architects + consultants	SUBMITAL NO.	AC/CIVIL/LOCI/PA/236/30
Contractor:	ASHIYANA CONTRACTING L.L.C	REVISION	00

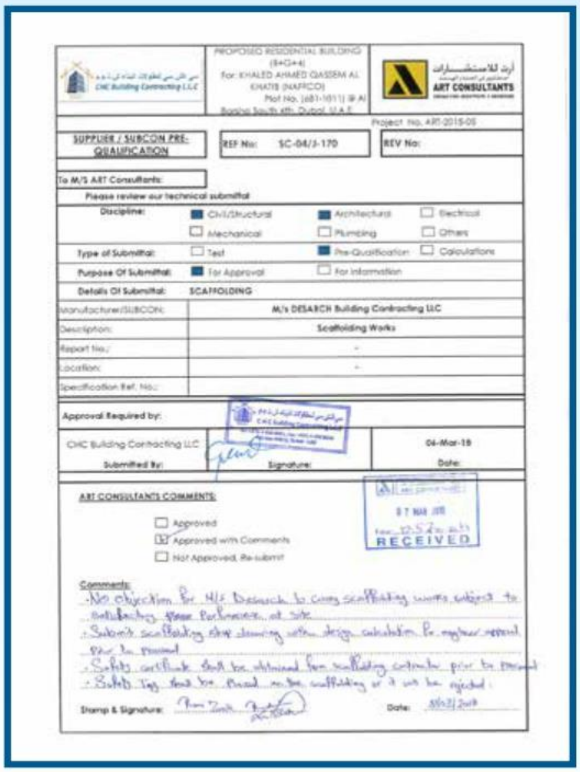
Work Description: FORMWORKS & SCAFFOLDING — SLABS & BEAMS –TRIPO SYSTEM WITH ALUMINIUM BEAM
Sub-contractor /Manufacturer/Supplier: DESARCH SCAFFOLDING

Signed by Main Contractor — Date: 22/03/18

Consultant Comments:
* Refer to the attached comments sheet and follow the same.

RECEIVED 29 MAR 2018 BY: LOCI

Approved (A) — Approved As Noted(B) ✓ — Re Submit (C) — Rejected (D)



CHC Building Contracting LLC — PROPOSED RESIDENTIAL BUILDING (B+G+4) For: KHALED AHMED QASSEM AL KHATIB (NAFFCO) — ART CONSULTANTS

Project No. ART-2015-05

SUPPLIER / SUBCON PRE-QUALIFICATION — REF No: SC-04/J-170 — REV No:

To M/S ART Consultants:
Please review our technical submittal

Discipline: ■ Civil/Structural ■ Architectural ☐ Electrical ☐ Mechanical ☐ Plumbing ☐ Others
Type of Submittal: ☐ Test ■ Pre-Qualification ☐ Calculations
Purpose Of Submittal: ■ For Approval ☐ For information
Details Of Submittal: SCAFFOLDING
Manufacturer/SUBCON: M/s DESARCH Building Contracting LLC
Description: Scaffolding Works

Submitted By: CHC Building Contracting LLC — Date: 04-Mar-18

ART CONSULTANTS COMMENTS:
☐ Approved
☑ Approved with Comments
☐ Not Approved, Re-submit

Comments:
- No objection for M/s Desarch to carry scaffolding works subject to satisfactory performance at site.
- Submit scaffolding shop drawing with design calculation for engineer approval prior to proceed
- Safety certificate shall be obtained from scaffolding contractor prior to proceed
- Safety Tag shall be fixed on the scaffolding or it will be rejected.

RECEIVED 07 MAR 2018

DESARCH™
SCAFFOLDING

Certificate Of Registration

Awarded to

DESARCH BUILDING CONTRACTING LLC

at
P.O.BOX NO: 71957, PLOT NO: B900, STREET-16C, COMMUNITY 613, AL AWEER INDUSTRIAL AREA 2, RAS AL KHOR, DUBAI, UAE

Quality Registrar Systems certify that the management system of the above organization has been audited and found to be in compliance with the QRS & ISO standard requirements for registration of the management system standard detailed below:

ISO 9001:2015

Quality Management Systems

Scope of work

- SCAFFOLDING CONTRACTING
- BUILDING CONTRACTING

IAF 28
Certificate No: ADU-10150
Originally Registered: 10 MAR 2023
Latest Issue: 10 MAR 2023
Valid up-to: 09 MAR 2026

Quality Registrar Systems

UAE OFFICE ADDRESS
Quality Registrar Systems Intl.
Abu Dhabi, United Arab Emirates
www.qrs-intl.com
Tel: 02-3096166

WORLDWIDE CERTIFICATION

This is an accredited certificate authorized for issue by Accreditation Service for Certifying Bodies LLC who have accessed QRS (Intl.) as a Certifying Body for compliance with ISO 17021:2015 'Conformity Assessment - Requirements for bodies providing audit and certification of management systems. This certificate is only valid when confirmed by the register listed in the QRS (Intl.) (qrs-intl.com)

Certificate Of Registration

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DESARCH BUILDING CONTRACTING LLC

at
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Quality Registrar Systems certify that the management system of the above organization has been audited and found to be in compliance with the QRS & ISO standard requirements for registration of the management system standard detailed below:

ISO 14001:2015

Environmental Management Systems

Scope of work

- SCAFFOLDING CONTRACTING
- BUILDING CONTRACTING

IAF 28
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ISO 45001:2018

Occupational Health and Safety Management Systems

Scope of work

- SCAFFOLDING CONTRACTING
- BUILDING CONTRACTING

IAF 28
Certificate No: ADU-30118
Originally Registered: 10 MAR 2023
Latest Issue: 10 MAR 2023
Valid up-to: 09 MAR 2026

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Quality Registrar Systems certify that the management system of the above organization has been audited and found to be in compliance with the QRS & ISO standard requirements for registration of the management system standard detailed below:

ISO 9001:2015

Quality Management Systems

Scope of work

- SCAFFOLDING CONTRACTING
- BUILDING CONTRACTING

IAF 28
Certificate No: ADU-10150
Originally Registered: 10 MAR 2023
Latest Issue: 10 MAR 2023
Valid up-to: 09 MAR 2026

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GOVERNMENT OF DUBAI

الاقتصاد والسياحة
Economy and Tourism

رخصة تجارية
Commercial License

License Details / تفاصيل الرخصة

License No.	539227		رقم الرخصة
	ديسارتش لمقاولات البناء ش.ذ.م.م		اسم الشركة
Company Name	DESARCH BUILDING CONTRACTING L.L.C		
	ديسارتش لمقاولات البناء ش.ذ.م.م		الإسم التجاري
Trade Name	DESARCH BUILDING CONTRACTING L.L.C		
Legal Type	Limited Liability Company(LLC)	ذات مسئولية محدودة	الشكل القانوني
Expiry Date	02/11/2023	تاريخ الإنتهاء	Issue Date	03/11/2002	تاريخ الإصدار
D&B D-U-N-S ®	534564810	الرقم العالمي	Main License No.	539227	رقم الرخصة الام
Register No.	60915	رقم السجل التجاري	DCCI No.	73070	عضوية الغرفة

License Members / الاطراف

رقم الشخص/No.	الإسم / Name	الجنسية / Nationality	الصفة / Role	الحصص / Share
149994	سونيل باتهاك بن اس ان باتهاك SUNIL PATHAK S N PATHAK	الهند / India	مدير / Manager	

License Activities / نشاط الرخصة التجارية

Building Contracting	مقاولات البناء
Scaffolding Contracting	اقامة السقالات
Scaffolding & Formwork Repairing	إصلاح السقالات وقوالب صب الخرسانة

Address / العنوان

Phone No	971-4-3337012	تليفون	P.O. Box	71957	صندوق بريد
Fax No	971-4-3337154	فاكس	Parcel ID	613-1400	رقم القطعة
Mobile No	971-50-7594342	هاتف متحرك			البريد الإلكتروني / Email

راس الخور الصناعيه الثانيه-مكتب رقم 1ملك مؤسسة دبي العقاريه

Remarks / الملاحظات

مقاولات البناء (أرضي+أول)

Print Date	10/11/2022	8:32	تاريخ الطباعة	Receipt No.	0	رقم الإيصال

الإمارات
THE EMIRATES

بإمكانك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/اتصالات) للحصول على اذن الدفع
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وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة الاقتصاد والسياحة في دبي .لمراجعة صحة البيانات الواردة في الرخصة يرجى مسح رمز الاستجابة السريعة
this is a certified e-document issued without signature by the department of Economy and Tourism .Kindly Scan the QR Code to Verify the certificate

DESARCH™
SCAFFOLDING

STOCKS IN WARE HOUSE


Ras Al Khor Rd
Hyundai Service Center
Ras Al Khor Bridge
Tamam Vehicle Testing
nd Registration Services
Nissan/Infiniti
Service Center
Sultan Decoration
& Furniture
Mice Kraftwork
RAS AL KHOR
INDUSTRIAL
AREA 2
منطقة
راس الخور
الصناعية -٢
Shezer Decor
Wad Al Hamar Rd
Used Car Signal
Aati Contracts
City Space Interior
Design Workshop
Desarch Scaffolding LLC
DESARCH BUILDING CONTRACTING L.L.C
Scaffolding Division
Plot No50 Street 16 c
Community 613
Al Aweer Indutrial Area
Western Auto Limited
Used Car Complex
modern style interiors
Emirates Auction
Manama Street

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SCAFFOLDING

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