رؤيـــة VISION
2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

HAYAKEL
SCAFFOLDING & FORMWORK

Hayakel Scaffolding and Formwork Co.
شركة هياكل الابنية للسقالات

BUILDING **SAFETY** | DELIVERING **TRUST**

ABOUT US

Hayakel Scaffolding is a Saudi Arabian company specializing in Scaffolding, Formwork, Engineering and Industrial Access Solutions, specialized in providing high-quality Scaffolding and Formwork systems solutions and services for various construction projects.
With years of experience in the field, we have established ourselves as a trusted partner for construction contractors seeking safe and efficient Scaffolding and Formwork services.

OUR SERVICES

SCAFFOLDING AND FORMWORK RENTAL

We offer a wide range of scaffold design options available for rent to accommodate projects of any size. We provide all necessary drawings, quantities, and perform cost calculations for each project.

SCAFFOLDING INSTALLATION

Our team of trained professionals ensures safe and timely installation of specially designed scaffold structures to meet specific project requirements.

SCAFFOLD AND FORMWORK DESIGN

We provide engineering services for scaffold and formwork design, utilizing the latest technologies to ensure the structural safety of the framework and the workers within.

INSPECTION AND MAINTENANCE OF SCAFFOLDING AND FORMWORK

Safety is our top priority.

We conduct comprehensive inspection and examination processes to ensure the safety and stability of scaffold and formwork structures throughout the duration of the project.

OUR EXPERIENCE

In Hayakel for Scaffolding and Formwork, we take pride in our team, who possess extensive knowledge and skills in all safe installation systems.
Our commitment to continuous training and adherence to standards ensures the highest level of quality and safety in every project we undertake.

OUR VALUES

Safety

The safety of our employees, customers and the community is of the utmost importance in everything we do. We strictly adhere to safety regulations and best practices to create a safe working environment.

Reliability

We are committed to delivering on our promises and meeting project deadlines accurately and efficiently.

Customer Satisfaction

Building strong relationships with our customers is fundamental to our success. We prioritize open communication, responsiveness and personal service to exceed our customers' expectations.

Quality

We prioritize the quality of our scaffolding products and services, ensuring durability, stability and compliance with industry standards.

WHY CHOOSE
HAYAKEL SCAFFOLDING

Quality Guarantee

Our commitment to quality and safety ensures peace of mind for our customers.

Customized Solutions

We offer scaffolding solutions tailored to meet the unique requirements of each project.

Competitive Pricing

We provide cost-effective scaffolding solutions without compromising on quality or safety.

OUR PRODUCTS

CUP-LOCK STANDARD

Standard Cuplock are available in five basic sizes (1000 mm, 1500 mm, 2000 mm, 2500 mm, and 3000 mm) in length.

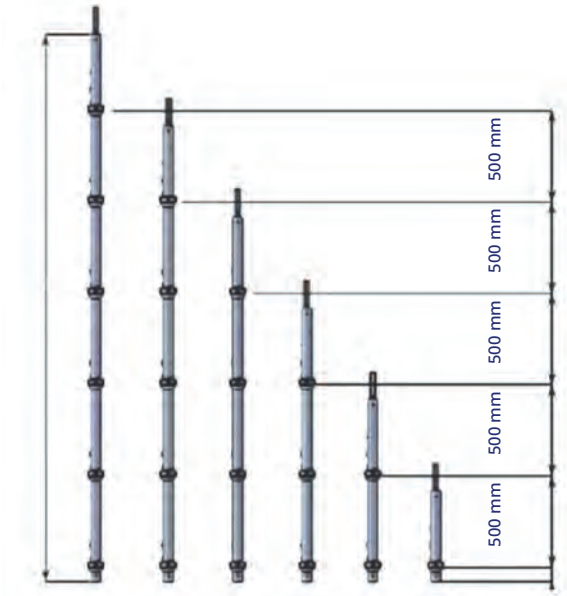
Standard Cuplock are manufactured from tubes with an outer diameter of 48.3 mm, with thicknesses of 3 mm and 3.2 mm.

The bottom cups are welded to the standards with intervals estimated at 500 mm.

The top (movable) cups are used to lock up to 4 ledgers at one point.

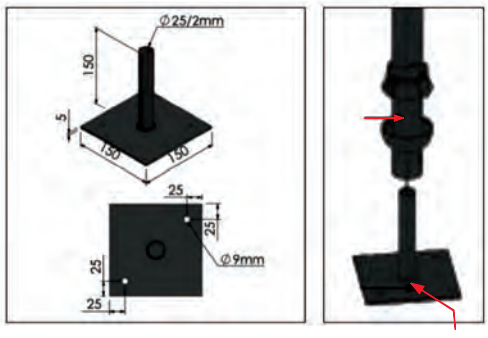
The lower bottom cup is welded at a distance of 80 mm from the bottom end of the standard, while the upper bottom cup is welded at a distance of 420 mm from the top end of the standard.

Top Cup	Ledger Blade	Bottom Cup
		

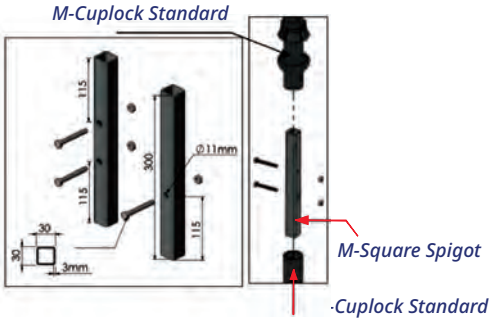


CODE		PRODUCT	WEIGHT (KG)	
			Thk 3mm	Thk 3.2mm
105001	1	Cuplock Standard, 1.00m	4.59	4.90
105005	2	Cuplock Standard, 1.50m	6.70	7.15
105002	3	Cuplock Standard, 2.00m	9.18	9.80
105003	4	Cuplock Standard, 1.50m	11.15	11.90

100011
M-BASE PLATE



100000
M-SQUARE SPIGOT



CUP-LOCK LEDGERS

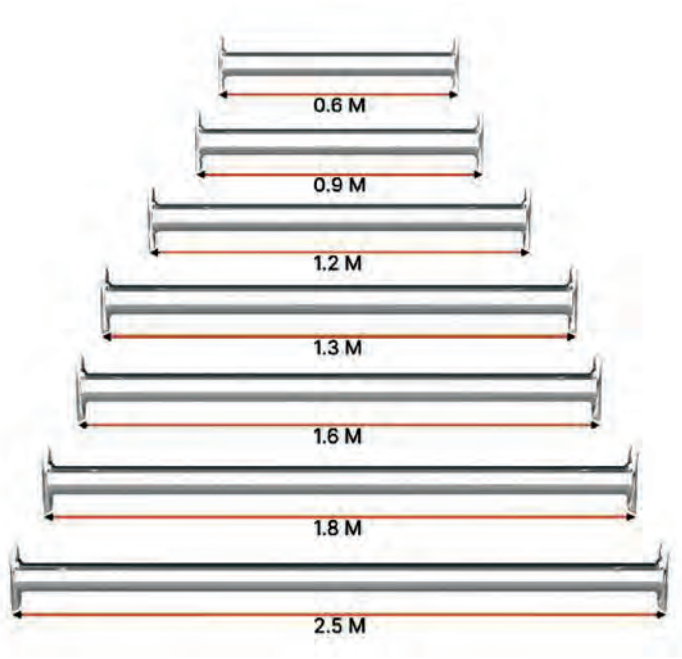
Cuplock Ledgers are used as the main horizontal connecting members for Cup-lock system.

Cup-lock ledgers are introduced in large varieties to meet the requirements.

Cup-lock Ledgers are manufactured from 48.3 mm O.D. Tube with 3 mm and 3.2mm thickness.

Cup-lock ledgers ends are formed with circular profile and welded to ledger tube.

Cup-lock Ledgers end meet with the bottom cup of the Standard and locked in place by the upper cup.
(Corresponding lock)

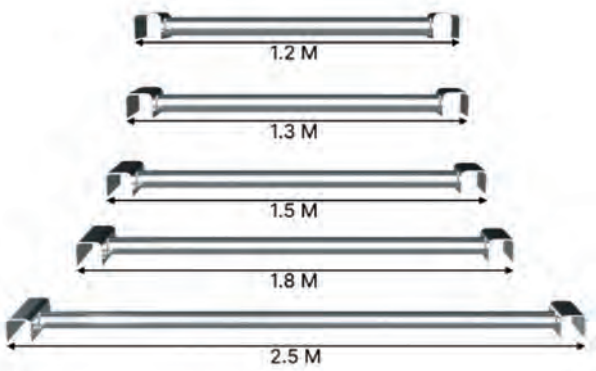


CODE		PRODUCT	WEIGHT (KG)
405003	1	Cup-Lock Ledgers, 0.60 m, Thk 3mm	2.35
405010	2	Cup-Lock Ledgers, 0.90 m, Thk 3mm	3.00
405006	3	Cup-Lock Ledgers, 1.00 m, Thk 3mm	3.50
405001	4	Cup-Lock Ledgers, 1.20 m, Thk 3mm	4.05
405002	5	Cup-Lock Ledgers, 1.25 m, Thk 3mm	4.35
405009	6	Cup-Lock Ledgers, 1.30 m, Thk 3mm	5.05
405007	7	Cup-Lock Ledgers, 1.60 m, Thk 3mm	6.05
405005	8	Cup-Lock Ledgers, 1.80 m, Thk 3mm	6.80
405008	9	Cup-Lock Ledgers, 2.50 m, Thk 3mm	8.30
505002	10	Cup-Lock Ledgers, 3.00 m, Thk 3mm	9.72

	PRODUCT	WEIGHT (KG)
1	Cup-Lock Ledgers, 600 m, Thk 3.2mm	2.65
2	Cup-Lock Ledgers, 900 m, Thk 3.2mm	3.40
3	Cup-Lock Ledgers, 1000 m, Thk 3.2mm	3.90
4	Cup-Lock Ledgers, 1200 m, Thk 3.2mm	4.50
5	Cup-Lock Ledgers, 1250 m, Thk 3.2mm	4.60
6	Cup-Lock Ledgers, 1300 m, Thk 3.2mm	5.45
7	Cup-Lock Ledgers, 1600 m, Thk 3.2mm	6.10
8	Cup-Lock Ledgers, 1800 m, Thk 3.2mm	7.01
9	Cup-Lock Ledgers, 2500 m, Thk 3.2mm	9.40
10	Cup-Lock Ledgers, 3000 m, Thk 3.2mm	11.20

INTERMEDIATE TRANSOM

Transoms are used where distance between vertical standards exceeds the span of scaffold boards.



ITEM	INTERMEDIATE TRANSOMS
Sizes	60m, Code : 204011 1.20m, Code : 204012 1.80m, Code : 204013 2.5m, Code : 204014
Thickness	3.2mm
Pipe OD	48.3mm

SCAFFOLDING COUPLER

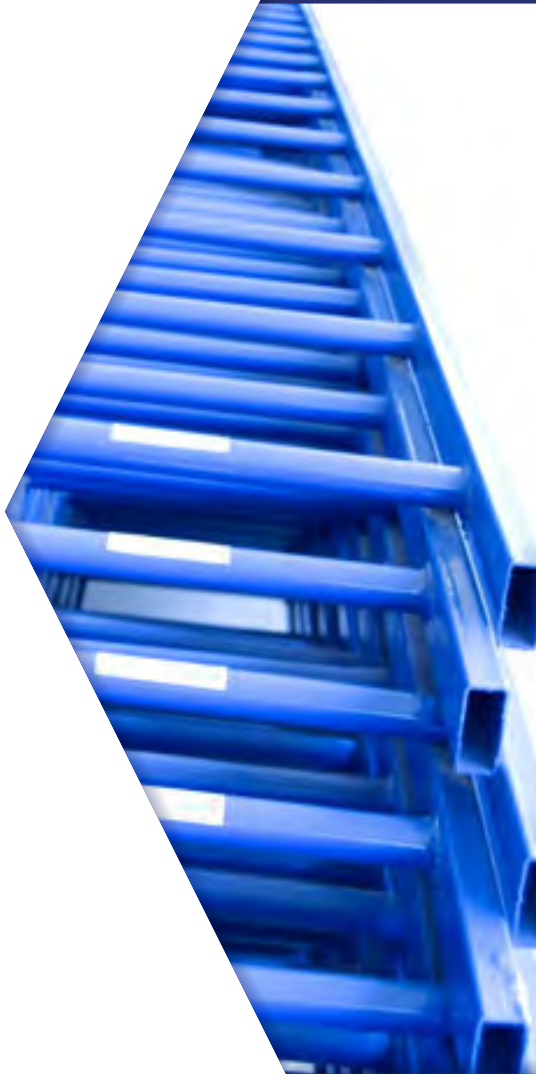
Drop Forged Double Coupler	Code :100002 WEIGHT: 1.00 kg QUALITY STANDARD: EN74-1:2005 Class B, AS1576.2 COATING: Available in zinc plated and Hot dip galvanized MATERIAL: Carbon Steel Q235	
Drop Forged Swivel Coupler	Code 100003 WEIGHT: 1.15 kg QUALITY STANDARD: EN74-1:2005 Class A, AS1576.2 COATING: Available in zinc plated and Hot dip Galvanised MATERIAL: Carbon Steel Q235	
Putlog Coupler	Code 100004 WEIGHT: 0.60 kg QUALITY STANDARD: AS1576.2, BS1139 COATING: Available in zinc plated MATERIAL: Carbon Steel Q235	
Sleeve Coupler	Code : 100012 WEIGHT: 0.60 kg QUALITY STANDARD :EN 74/1:2005COATING: Available in zinc plated MATERIAL: Carbon Steel Q235	
Drop Forged Board Retaining Clamp	Code : 100014 Board retaining couplers are required to secure your timber boards in place providing a secure lock, so no boards move under load. Single unit design, used for connecting transoms to ledger tubes, and for securing guard rails to standards.	
Drop Forged Girder Coupler	Drop Forged Girder Coupler Code : 100013 Designed to connect 48.3mm outside diameter scaffold tube to a range of structural sections up to a maximum flange thickness of 45mm. To be used in pairs.	

STEEL LADDER

Welded steel Ladders width 305mm (12»)
center to center. Overall depth 353mm. 3.0 mm
Channel and Rungs.

Scaffolding ladder 4 m , code : 101001
Scaffolding ladder 3 m , code : 101003
Scaffolding ladder 6m , code : 101002

ITEM	STEEL LADDER
Width	353 mm
Thickness	3.0 mm
Surface	Painted
Rings	2/1.8.1.8mm



LADDER BEAM

Code : 100016
Welded steel beam entirely in 48.3mm O.D. tube. Galvanized or ungalvanized. Standard width 305mm (12») center to center. Overall depth 353mm. 48.3mm tube.

ITEM	STEEL LADDER
Width	353 mm
Thickness	3.0 mm & 3.2 mm
Surface	Painted/Galvanized

SCAFFOLDING TUBE

WEIGHT: 48.3*4mm-Per unit 4.37kg/2.937lbs, $48.3*3.2mm-Per unit 3.56kg/2.392lbs
QUALITY STANDARD: EN39/BS1139/AS1163
FINISHING-Hot Dipped or Pre-Galvanized pipe

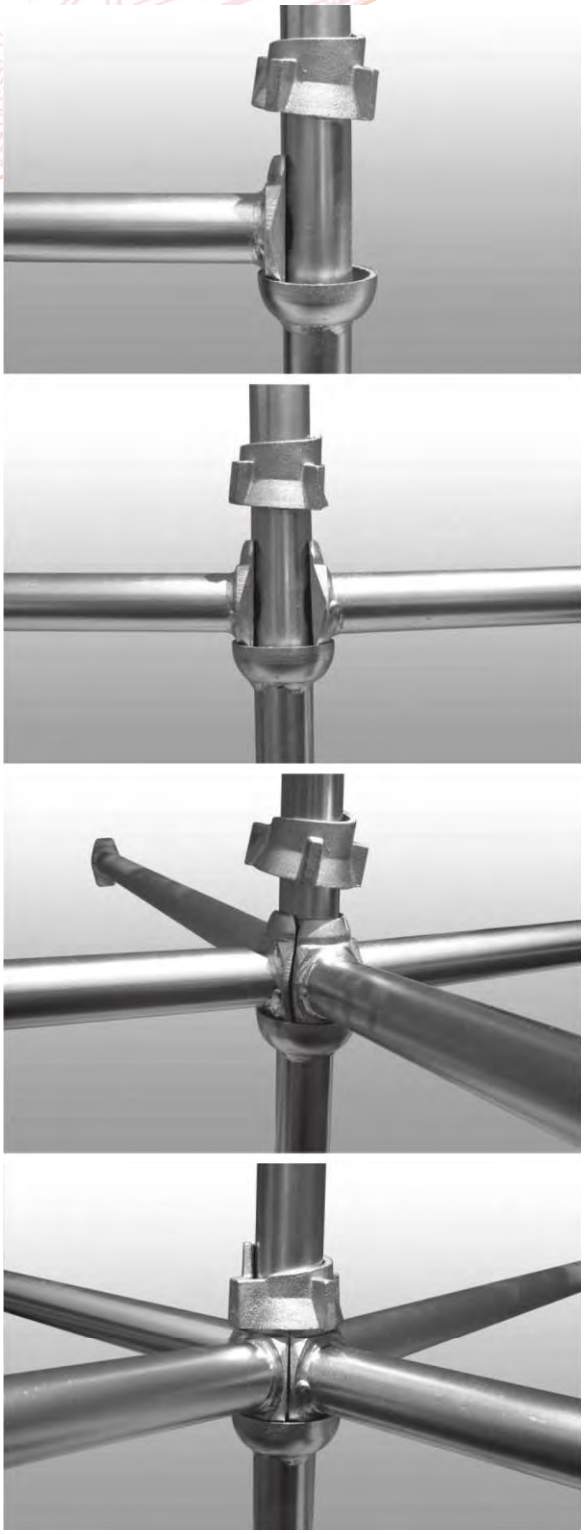
CODE	ITEMS
305001	SCAFFOLDING TUBE 1M
305002	SCAFFOLDING TUBE 2M
305003	SCAFFOLDING TUBE 3M
305004	SCAFFOLDING TUBE 4M
305005	SCAFFOLDING TUBE 6M

PRODUCT FEATURES

The **SafeLok Scaffolding System** is designed with an innovative connection method that securely joins vertical standards and horizontal ledgers or transoms. Its unique **four-way node connection** allows up to four ledgers or transoms to be connected simultaneously using a **single hammer blow**, eliminating the need for nuts, bolts, or wedges.

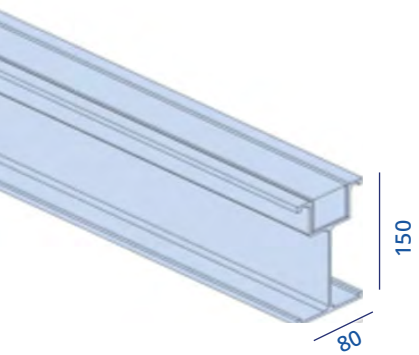
The locking mechanism consists of a **fixed lower cup**, welded to the standard at **500 mm intervals**, and a **movable upper cup**. After positioning the ledger blades into the lower cup, the upper cup is lowered, rotated, and tightened with a hammer blow to create a **strong, rigid, and secure connection**.

This advanced connection system makes **SafeLok** one of the fastest and most efficient scaffolding systems available, reducing erection time, eliminating loose components, and minimizing maintenance delays. Its simple installation process improves productivity while ensuring maximum safety and structural stability.

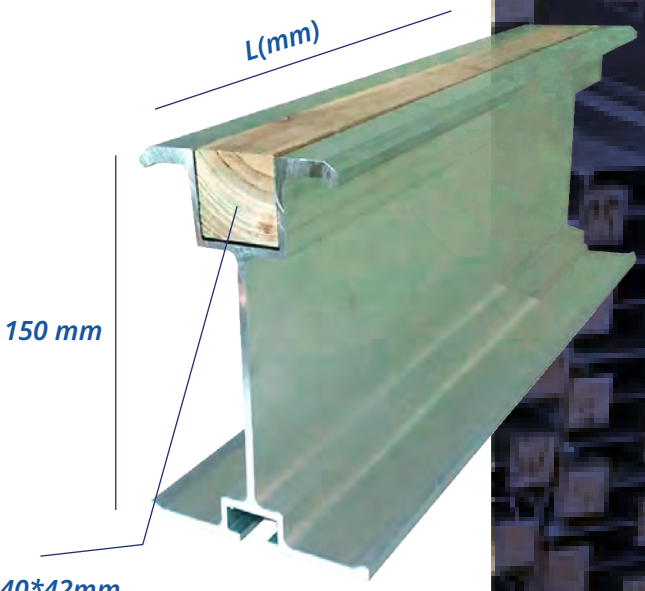


ALUMINUM BEAMS

Aluminum beams combine the benefits of strength, lightness and ease handling with consistency, versatility and exceptional durability. Aluminum beams manufactured from high grade alloy (ALLOY 6082). Available in two standard sections.



Light Aluminium



Heavy Aluminium

CODE	LENGTH (L)
505012	1.00 M
505001	2.00 M
505002	3.00 M
505003	4.00 M
505004	5.00 M

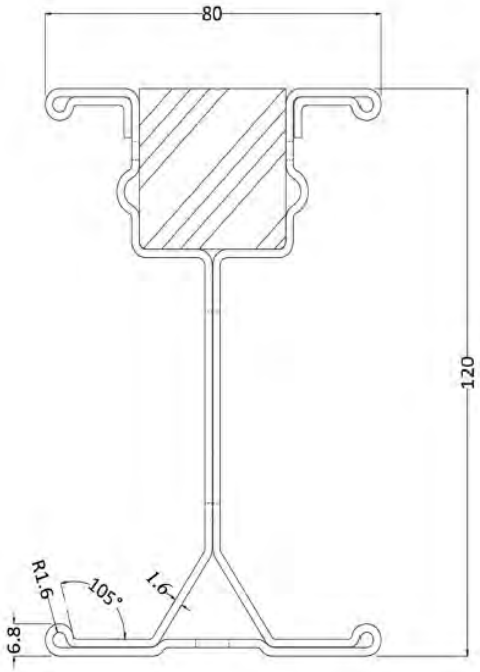
WTD Smart Beam

WHY WTD BEAM IS IDEAL FOR YOUR NEEDS..

A. INSTALLATION BENEFITS.

- High Allowable Uniform Loads: Designed for use as simply supported and- laterally braced.
- **Lightweight:** Weighing less than 6.2 kg/m (4.17 lbs/ft), including the nailing strip, making them easy to carry and install.
- **Cost-Efficient:** Reduces labor costs, transportation costs, and storage and stacking costs.
- **Multiple Usage:** Can be utilized as either a joist and stringer or both.
- Easy Plywood Attachment: Comes with a factory-installed, field-replaceable 38x38 mm nailing strip.
- **Durability:** Reverse flange stiffening minimizes damage during handling.
- **Secure Fixation:** The lower lip of the section allows for secure fixation using WTD Beam Clamps.
- **Compatibility:** The lower wide flange is compatible with U-heads on shoring jacks and post shores, allowing for side-by-side installation in larger U-heads.
- **Standard Height:** The 120 mm height is compatible with other joists.

ISOMETRIC VIEW OF SMART WTD BEAM



SMART WTD BEAM SECTION
With 38x38 mm wood Nailing

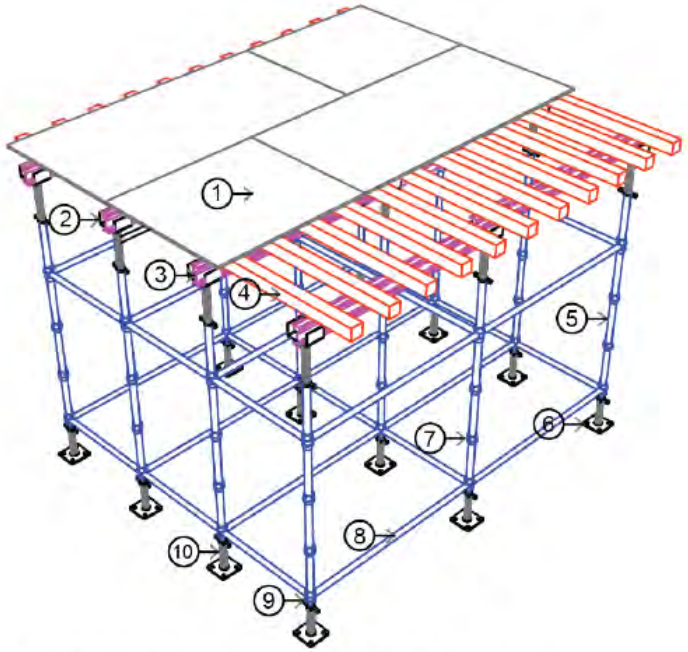
FALSEWORK APPLICATION

Cup lock Scaffolding system is multipurpose steel scaffold for general access and supporting vertical loads through the following :

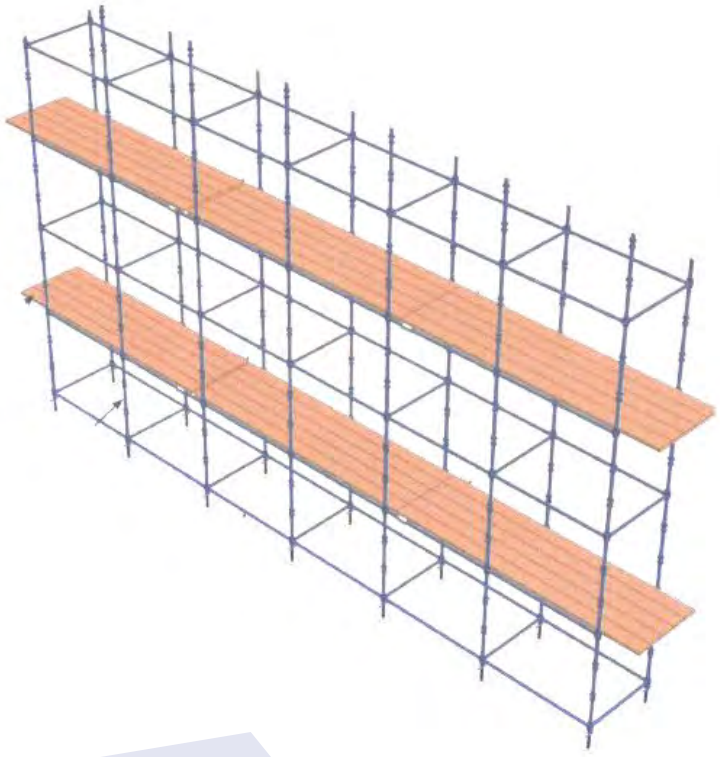
Safe working loads on platforms will vary between 0.75KN and 3KN per square meter depending on the configuration of the scaffold.

Cup lock scaffolding meet the requirements of the international standard for act and safety Cup lock scaffolding is compatible with any scaffolding accessories (stairs, boards, wheels, tie...) All components are designed to be light weight and easily assembled.

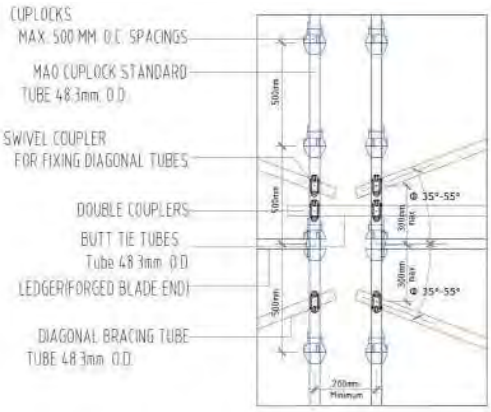
Cup lock constructs and maintains an installation that can seriously affect the life acceptance and efficiency of the finished installation.



1. PLYWOOD SHUTTER
2. FORK / U-HEAD
3. ALUMINUM BEAM
4. TIMBER BEAM JOIST
5. VERTICAL STANDARD
6. BASE PLATE
7. CUP-LOCK
8. LEDGER
9. JACK NUT
10. JACK THREAD

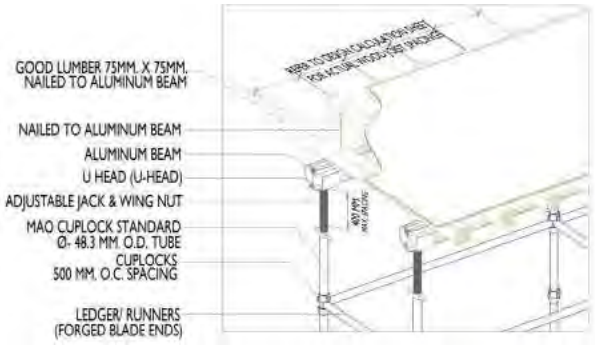


DETAILS



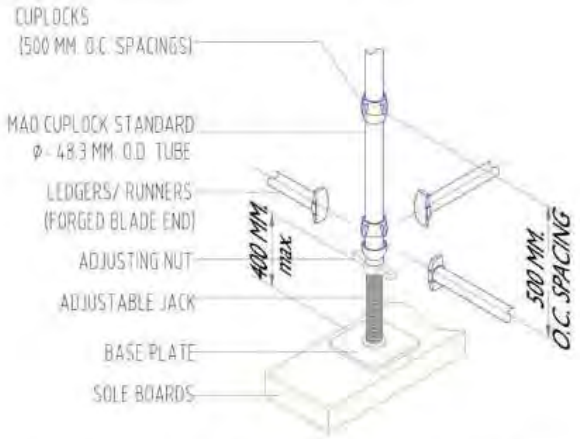
TYP. BRACING DETAIL

SCALE NTS



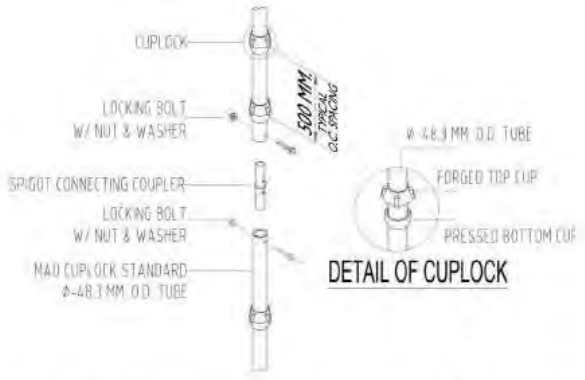
U-HEAD & ALUMINUM BEAM DETAILS

SCALE NTS



BASE JACK DETAIL

SCALE NTS



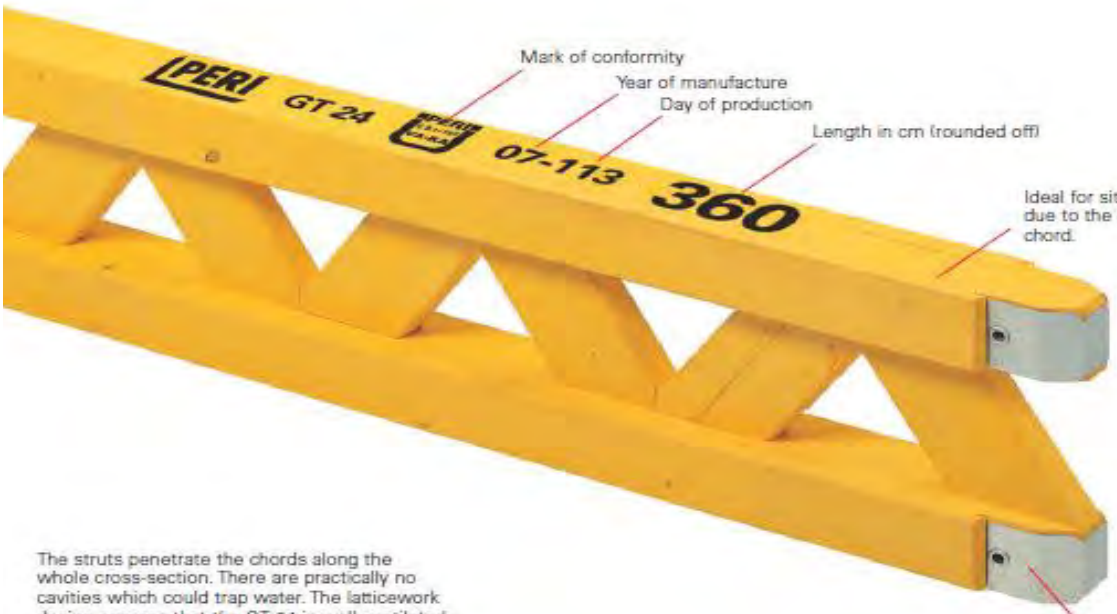
SPIGOT CONNECTION DETAIL

SCALE NTS

SCAFFOLD TIMBER BOARD

CODE	PRODUCT
605001	Scaffold Timber Board 2.00m
605002	Scaffold Timber Board 2.50m
605003	Scaffold Timber Board 3.00m
605004	Scaffold Timber Board 4.00m

GT 24 FORMWORK GIRDER



The struts penetrate the chords along the whole cross-section. There are practically no cavities which could trap water. The latticework design ensures that the GT 24 is well-ventilated when stacked.

Durability through the patented girder nodes with mini- dovetail jointing.

Regardless of the height, the GT 24 makes it possible:
One-piece girders up to 1780 m long.

The GT 24 as formwork girder with MULTIFLEX slab formwork.

A cost-effective solution:
Bridge formwork with GT 24 girders.

– strong enough for wall formwork
– light and manageable for slabs
– cost-effective for customized formwork solutions

The GT 24 reduces labour costs because fewer girders are required.

Compared to other 20 cm high formwork girders, the higher load-bearing capacity of the GT 24 results in fewer girders, steel walers or props for both wall and slab formwork.
This means:
Savings in labour costs with every use and on every construction site.

GT 24 lattice girder - VT 20K solid web girder comparison:

GT 24 5.9 kg/m	± 0 %
VT 20 5.9 kg/m	**Weight**
GT 24 28 kN	+ 27 %
VT 20 22 kN	**Permissible support reaction**
GT 24 7 kNm	+ 40 %
VT 20 5 kNm	**Permissible bending moment**
GT 24 800 kN/m²	+ 86 %
VT 20 429 kN/m²	**Flexural strength**

Crane-independent, flexible, inexpensive LICO, the lightweight column formwork for cost-effective forming also without a crane.

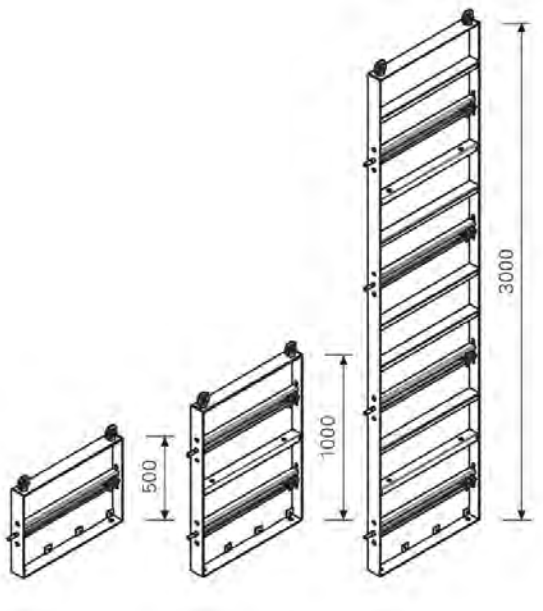
The low individual weights of the elements allow assembly and dismantling by hand. This means that the formwork crew is still in a position to effectively use crane non-availability in a productive way.

Practical details simplify the use and lower shuttering times.
The high permissible fresh concrete pressure of 80 kN/m² ensures fast concreting cycles and thus contributes to a very economical utilization of the equipment.

HEIGHT INCREMENTS OF 50CM

Only three different element heights:

3.00 m, 1.00 m and 0.50 m. These allow optimal adjustment to the required concreting heights.



COLUMN CROSS-SECTIONS

Different cross-section combinations permit rectangular or square configurations from 20 x 20 to 60 x 60 cm in 5 cm increments.

3.00 m high LICO column formwork with RSS I push-pull- props for construction of an office building.

Captive column tie bolts and nuts are permanently attached to each element.

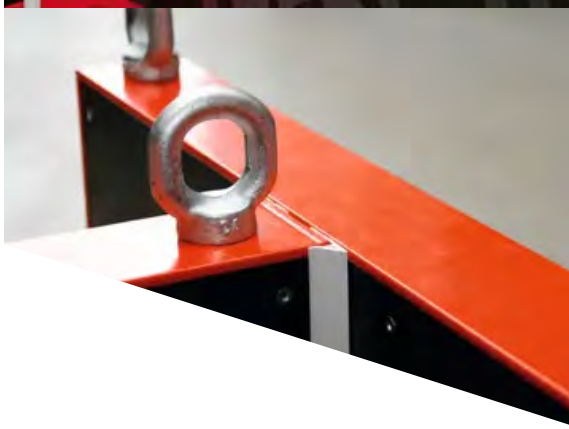
Eye bolt as load bearing point for moving as well as easy and simple extensions.

LICO chamfer strip, Item no. 111975, is simply attached to the front side of the element.

Column cross-sections from 20 x 20 cm to 60 x 60 cm can be realized both square or rectangular-shaped in 5 cm increments.

With centrally-positioned ties, cross-sections up to 60 x 130 cm can be formed.

Element connections are carried out using standard M20 bolts.



PRACTICE-ORIENTED DETAILS

The LICO captive column tie bolts and nuts are permanently attached to the elements.

Eye bolts on all elements serve as load bearing points for moving with the crane as well as for element connections when extending.

The chamfer strips are easily fitted on the elements – this save on time consuming and cost-intensive nailing of conventional strips.

VARIO SYSTEM

The variable Girder Wall Formwork System with the proven Lattice Girder GT 24

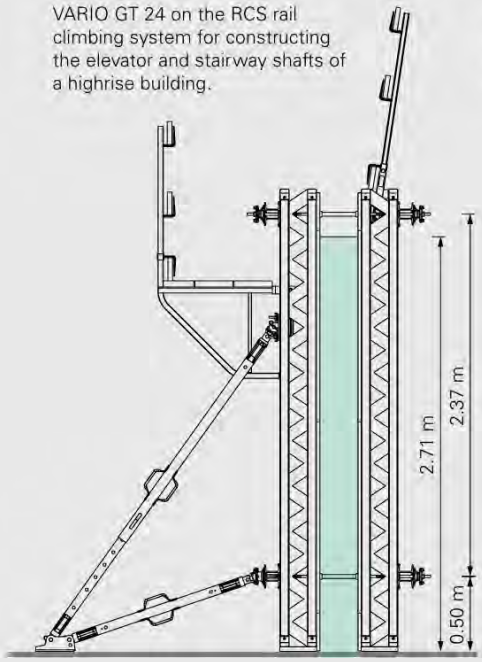
VARIO GT 24 is the proven girder wall formwork system complete with the continuously adjustable elongated hole couplings.

Regardless whether it is industrial or residential construction, bridge abutments or retaining walls, every layout and any height up to 18 m can be formed with PERI VARIO.

The 30 cm increments of the GT 24 girder allow easy adjustment to suit the required height.

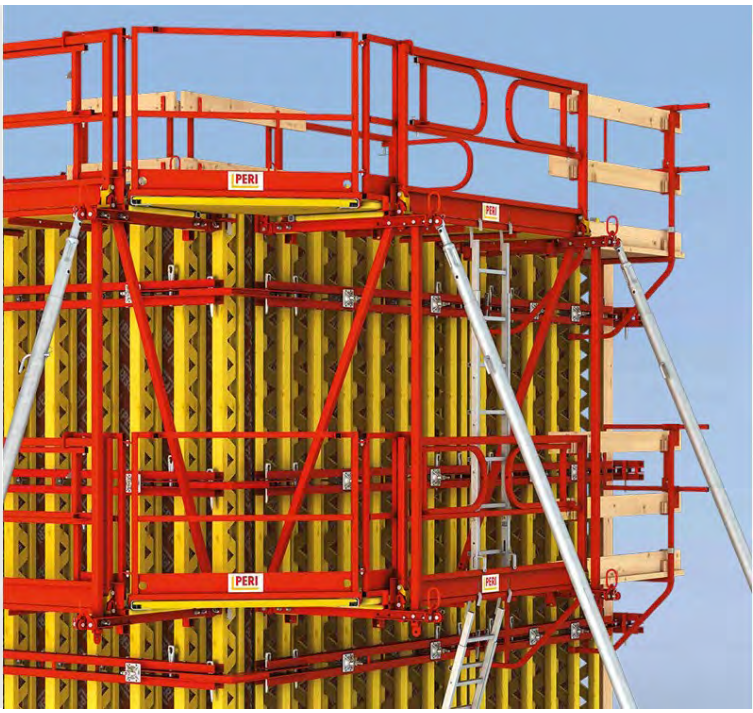
Pre-assembled, ready-to-use platforms provide site personnel with a very high level of safety, as well as large time savings particularly with multiple usage.

VARIO GT 24 on the RCS rail climbing system for constructing the elevator and stairway shafts of a highrise building.



VARIO panels, with concreting scaffold and push-pull props, are shifted as a complete unit.

Soundproof sealing of the tie points costs 50% less as the top tie point is above the concrete with waler spacing of 2.37 m.



Standard Applications

VARIO GT 24 standard panels

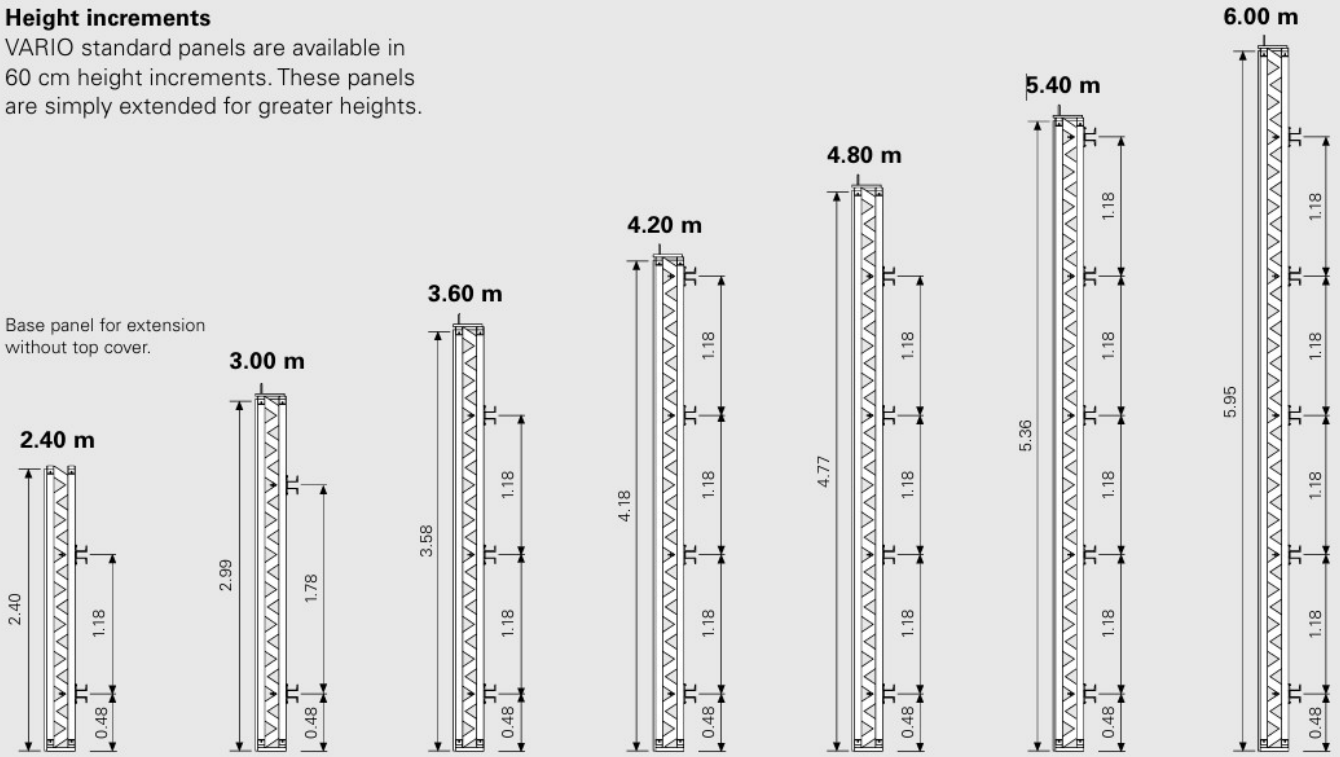
VARIO GT 24 standard elements complete with platforms.

VARIO standard panels are pre-assembled rentable formwork panels which are fitted with 21 mm formlining.
The ready-to-use wall formwork is assembled using tried and tested VARIO system components. The panels are supplied complete with lifting eyes and rubbing board.

Permissible fresh concrete pressure:
60 kN/m² with tie spacings 55/140/55 or 50 kN/m² with tie spacings 62.5/125/62.5 according to DIN 18202, Table 3, Line 7.

Integrated crane lifting unit as well as top cover board for protecting against concrete splashes.

Height increments
VARIO standard panels are available in 60 cm height increments. These panels are simply extended for greater heights.

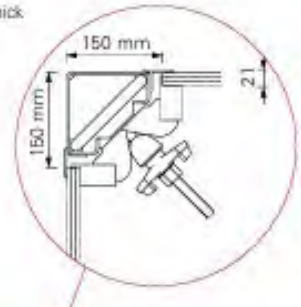


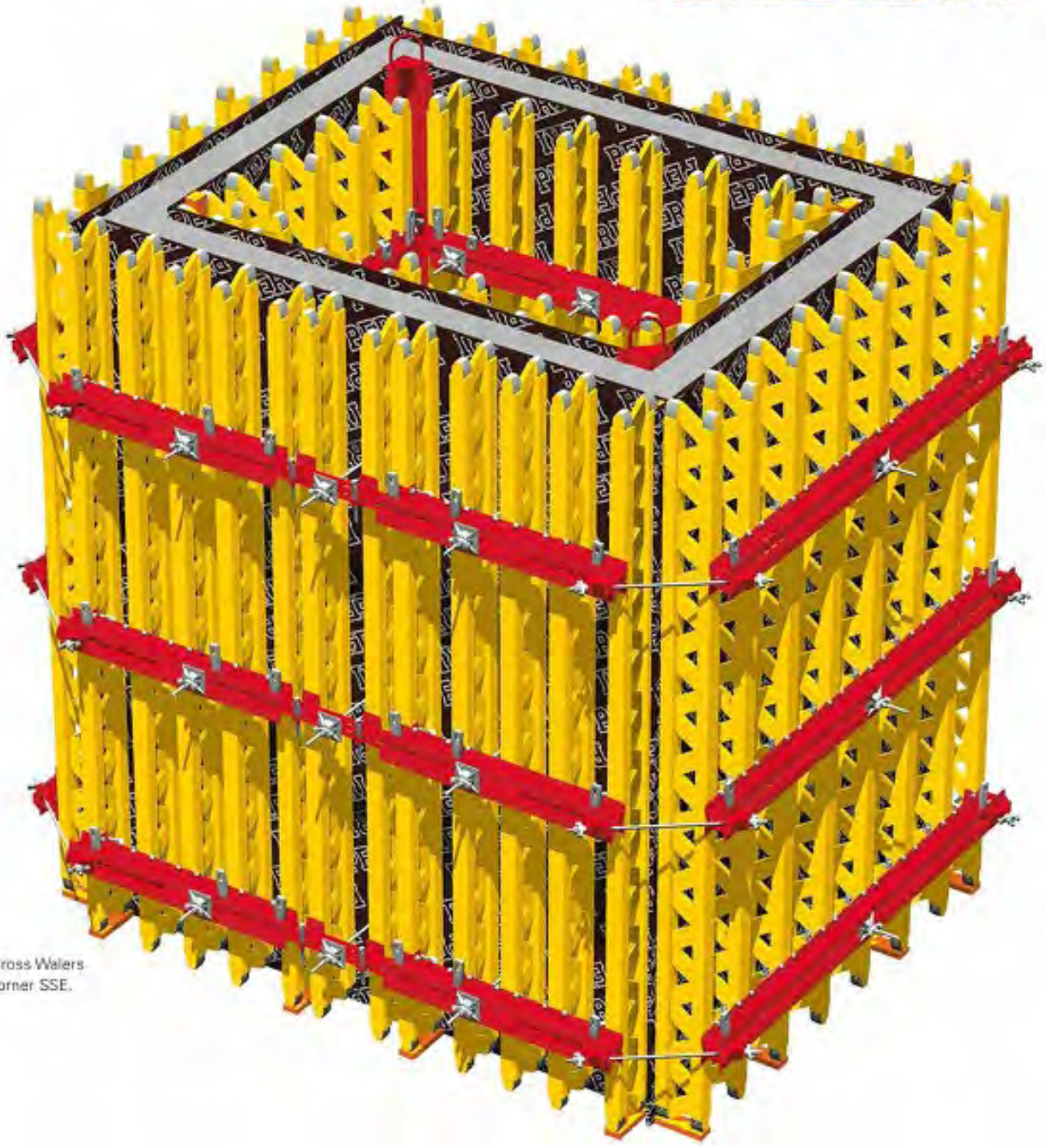
Shafts

In particular, small shafts can be realised extremely cost-effectively with customised Cross Walers and the quick-release Shaft Corner SSE.

Practical tip
The shaft corner should be stripped at the very latest one day after concreting.

Details of the Quick Release Corner





Small lift shaft with Cross Walers and Quick Release Corner SSE.

SB BRACE FRAME FOR SINGLE-SIDED WALLS UP TO 6.00M HEIGHT

HAYAKEL SCAFFOLDING AND FORMWORK CO.

Occuring forces

Compressive forces V1 and V2
The transfer of all V1 and V2 compressive forces is normally ensured without any difficulty when the brace frame is used on a concreted bottom slab or foundations.

Tension force Z
For tension anchorage of the forces in the sub-structure, PERI offers different anchor systems.

The decisive factor regarding the choice of anchoring system are the tensile forces which occur.

Attention
If brace frames are positioned on slabs (e.g. underground car parks), V1 and V2 compressive forces must be transferred into the bottom slab or foundations using the appropriate support. On-site checks must be carried out to ensure that V1 and V2 compressive forces are safely transferred into the sub-structure.

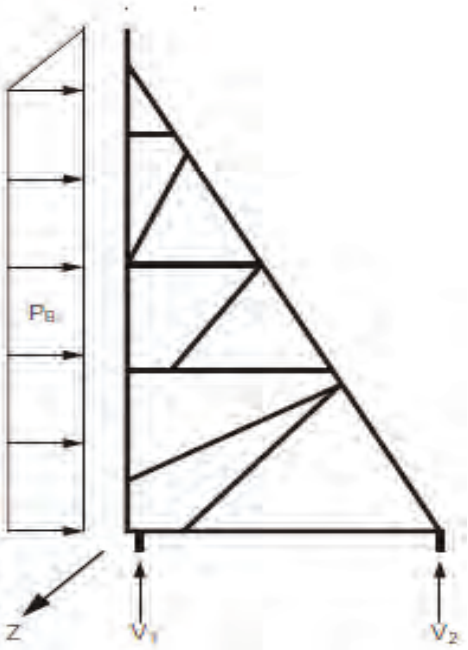


Table of permissible anchor forces

Anchor system	perm. load
DW 15	90 kN
DW 20	150 kN
DW 26	250 kN

Anchoring is always carried out using 2 anchors per brace frame so that, for example, if using the DW 20 system, a maximum tensile force of 2 x 150 = 300 kN is allowed.

When using PERI brace frames, the following points in particular are to be taken into consideration:

1. The structural components (e.g. foundations or bottom slab) must be able to accommodate all tensile and compressive forces which arise. Before concreting takes place, the dimensioning of the components is to be checked and provisions made for the positioning of the anchors.

2. Naturally, the "other side" of the single-sided formwork (existing wall, shoring, rock face etc.) must be able to withstand the fresh concrete pressure acting on them.

3. DW tie rods which have been installed for anchoring purposes must not be welded or bent.

4. If other anchor or formwork systems are used, the application possibilities and stability are subject to separate verification.

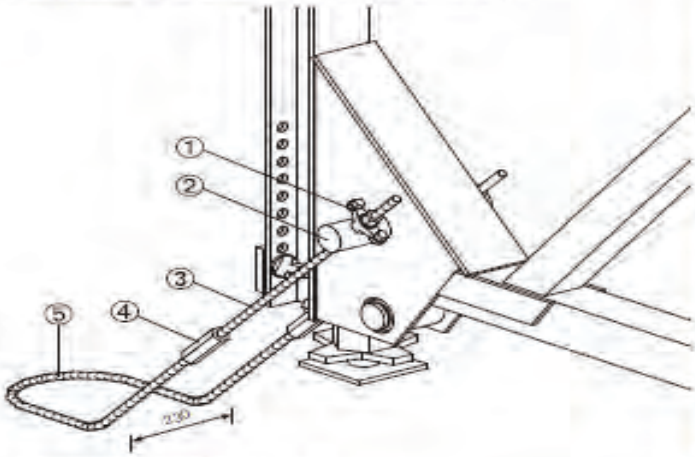
5. Any deviations from the information contained in this brochure always require separate static proof.

SB Brace Frame
Anchor system DW 15, 20, 26

The choice of anchoring system is determined by the tension force Z applied on the brace frame.
(see Tables)

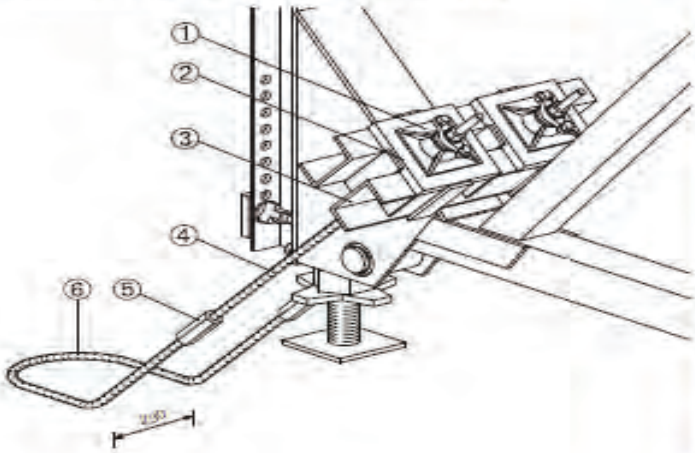
Note:
Separate statical proof is required for anchoring systems other than those shown here.

Anchoring of DW 15 with Double Tie Yoke.
Permissible tension force 2 x 90 kN = 180 kN



Reusable anchor parts	Lost anchor parts
1. Wingnut DW 15 Item no. 030100 **2. Double Tie Yoke** Item no. 027520 **3. Tie Rod DW 15** Item no. 030030 **4. Hex. Nut DW 15, SW 30/108** Item no. 030090	**5. Brace Frame Double Anchor DW 15** Item no. 030060

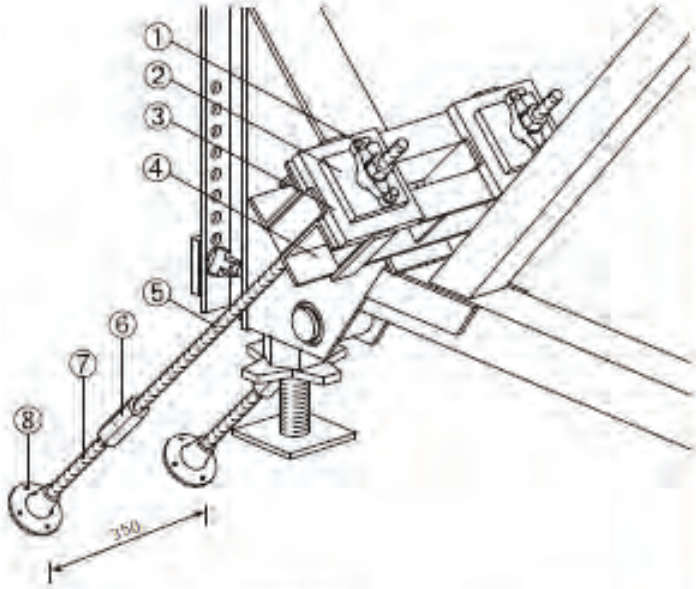
Anchoring of DW 15 with Anchor Waler.
Permissible tension force 2 x 90 kN = 180 kN



1. Wingnut Pivot Plate DW 15 Item no. 030370 **2. Anchor Plate SB DW 26** Item no. 027480 **3. Anchor Waler U 140, 0.55 m** Item no. 027650 or **Anchor Waler U 140, 2.35 m** Item no. 027530 **4. Tie Rod DW 15** Item no. 030030 **5. Hex. Nut DW 15, SW 30/108** Item no. 030090	**6. Brace Frame Double Anchor DW 15** Item no. 030060

Anchor system DW 20

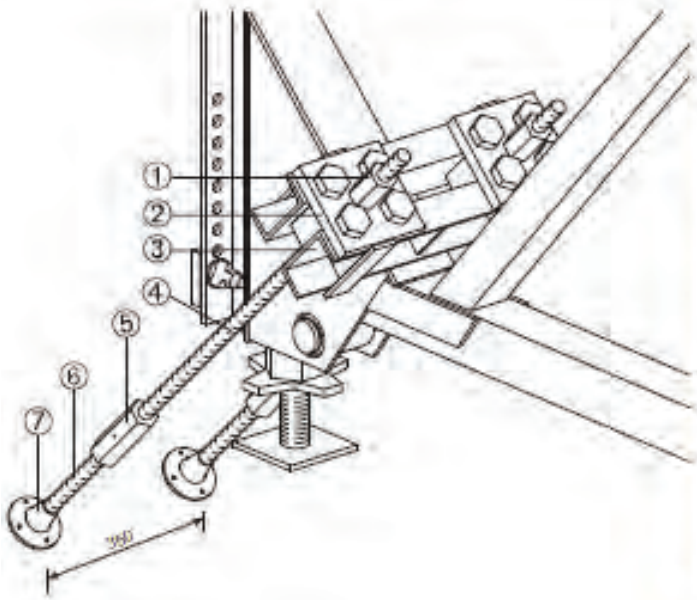
Permissible tension force 2 x 150 kN = 300 kN



Reusable anchor parts	Lost anchor parts
1. **Wingnut DW 20** Item no. 030990 2. **Counterplate DW 20 120 x 120 x 20** Item no. 030830 3. **Anchor Plate SB DW 26** Item no. 027480 4. **Anchor Waler U 160, 0.55 m** Item no. 109017 5. **Tie Rod DW 20** Item no. 030700 6. **Hex. Nut DW 20, SW 36/110** Item no. 030590	7. **Tie Rod DW 20** Item no. 030700 8. **Threaded Anchor Plate 20** Item no. 030860

Anchor system DW 26

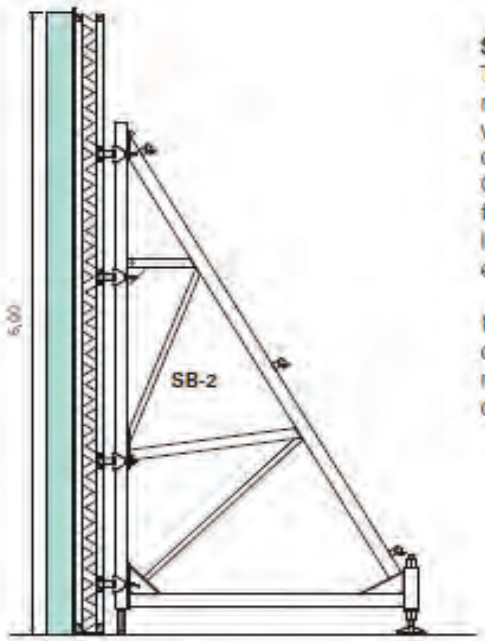
Permissible tension force 2 x 250 kN = 500 kN



1. **Hex. Nut DW 26, SW 46/80** Item no. 030970 2. **Tension Release Plate SB DW 26** Item no. 101621 3. **Anchor Waler U 160, 0.55 m** Item no. 109017 4. **Tie Rod DW 26** Item no. 030340 5. **Hex. Nut DW 26, SW 46/150** Item no. 030980	6. **Tie Rod DW 26** Item no. 030340 7. **Threaded Anchor Plate 26** Item no. 030870

SB-2 up to 6.00 m high

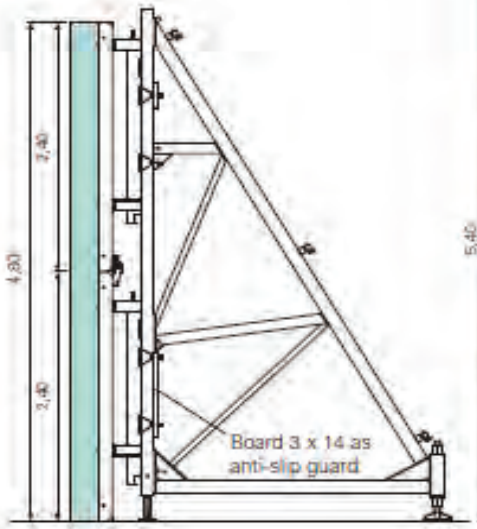
VARIO GT 24
h = 6.00 m



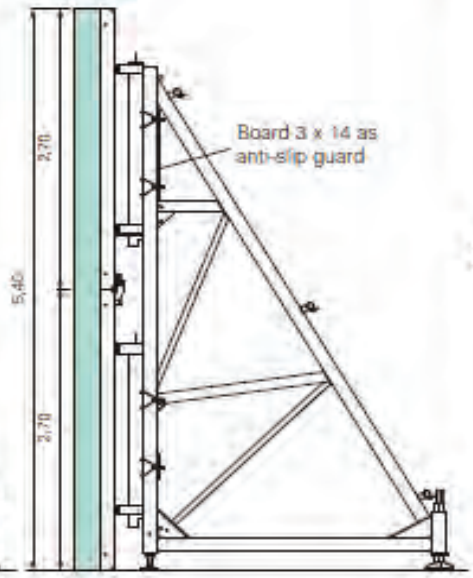
Safety instructions
The support (connection) of the panel must always take place at the point where the tie is installed during normal operations (double-faced).
Otherwise the static system of of the formwork panel is altered which can lead to large deformations and, in extreme cases, breakage.

If extending the formwork, the specifications provided by PERI for each respective system must be taken into consideration.

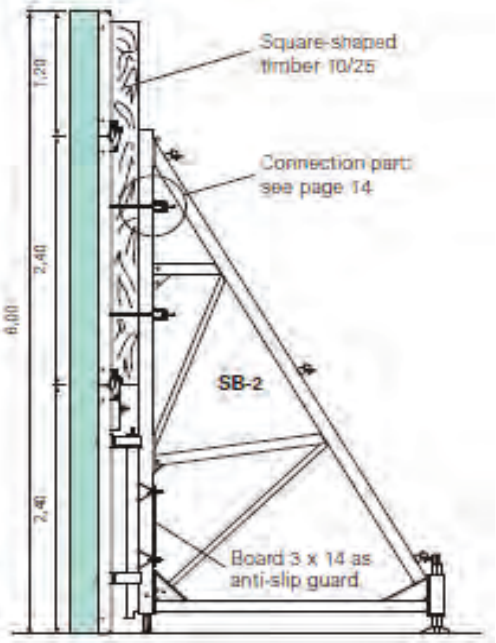
MAXIMO, TRIO
h = 4.80 m



MAXIMO, TRIO
h = 5.40 m

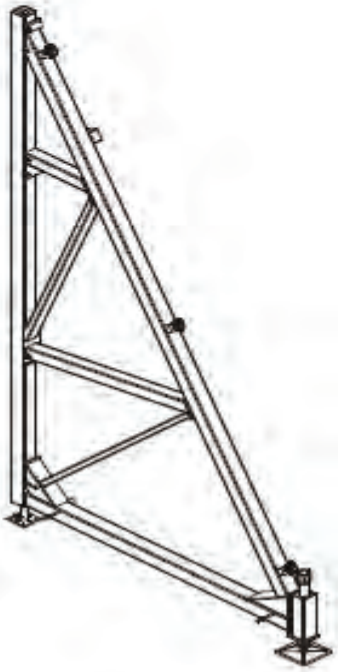


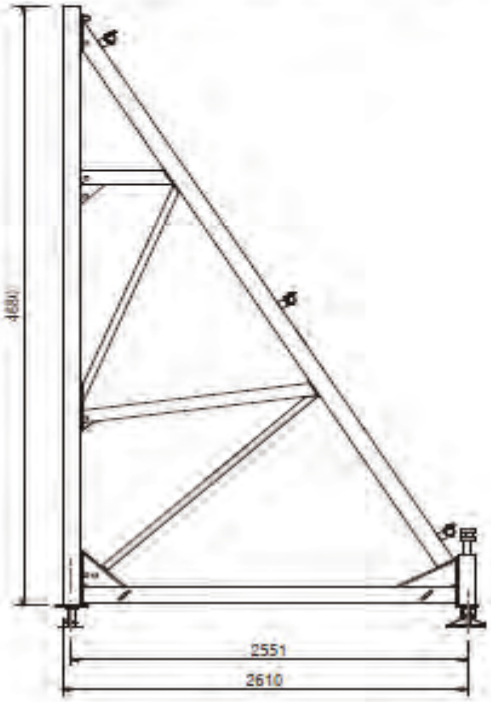
MAXIMO, TRIO
h = 6.00 m



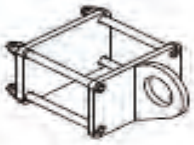
SB Brace Frame

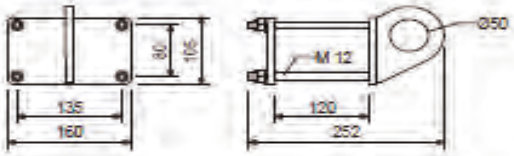
Item no.	Weight kg		
027510	364,000	**Brace Frame SB-2** For forming single-sided walls and special applications.	**Complete with** 3 x 017040 Screw Couplings AK 48, galv. 1 x 715121 Adjusting Unit SB-2 2 x 710067 Hex. Nut TR 60 x 9 **Note** Permissible load: see PERI Design Tables.



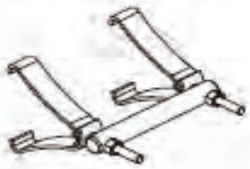


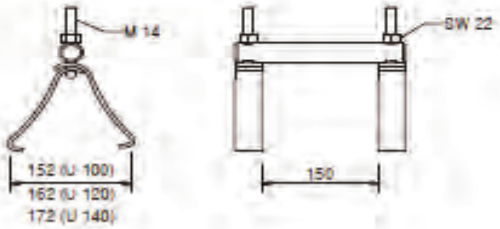
116065	3,680	**Crane Eye SB-2** As crane eye for the Brace Frame SB-2.	**Note** Permissible load-bearing capacity 1.0 t.





027590	2,400	**Hook Strap SB-1, 2** For mounting Brace Frames SB-1 and SB-2 to Steel Waler SRZ and SRU Profles U100 - U140.	**Note** Wrench size SW 22.





PERI PED ERGO

WELL-DEVELOPED FEATURES FOR FASTER FORMING

■ **Long service life**
The complete galvanisation of all surfaces guarantees a long service life. The new closing nut additionally provides a unique repair capability. This allows defective inner and outer tubes to be easily replaced.

■ **Assembly of accessories**
Naturally, the use of all PERI props heads (supports) is guaranteed and is also usable on both sides through the identical end plates on the inner and outer tubes.

GRIDFLEX Prophead GFH fitted to the inner tube.

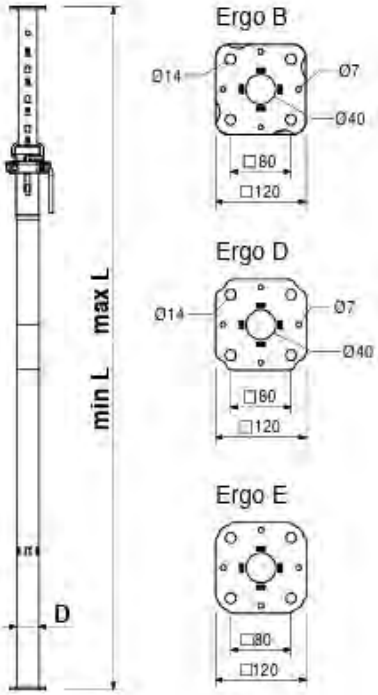
MULTIFLEX Crosshead fitted to the outer tube.

PEP Ergo Slab Props

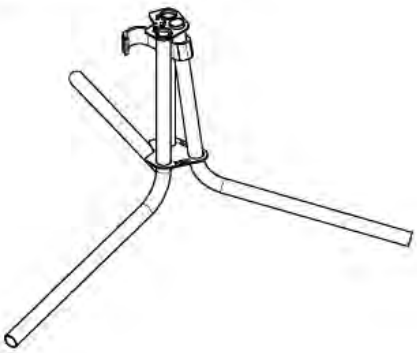
Item no.	Weight kg	Slab Props PEP Ergo	D	min. L	max. L
116780	14,000	**Slab Prop PEP Ergo B-300**	Ø 60.6	1970	3000
116790	15,600	**Slab Prop PEP Ergo B-350**	Ø 60.6	2250	3500
117230	9,110	**Slab Prop PEP Ergo D-150**	Ø 60.6	980	1500
116770	13,100	**Slab Prop PEP Ergo D-250**	Ø 60.6	1470	2500
125130	19,400	**Slab Prop PEP Ergo D-350**	Ø 71.0	2260	3500
125140	22,900	**Slab Prop PEP Ergo D-400**	Ø 76.5	2510	4000
125150	30,400	**Slab Prop PEP Ergo D-500**	Ø 83.0	3260	5000
125160	19,400	**Slab Prop PEP Ergo E-300**	Ø 76.5	1960	3000
125170	26,600	**Slab Prop PEP Ergo E-400**	Ø 83.0	2510	4000

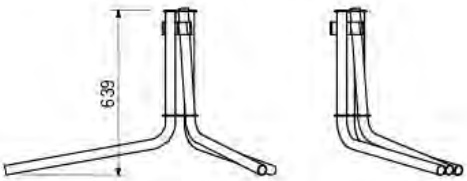
Slab prop made of steel.

Note
Permissible load: see PERI Design Tables.



107152	5,810	**Tripod PEP Ergo, galv.** Erection aid for PEP Ergo Slab Props with Ø 44 – 64 mm.	**Note** Only use as erection aid!





HAYAKEL SCAFFOLDING & FORMWORK

HAYAKEL SCAFFOLDING AND FORMWORK CO.

COMPANY CERTIFICATIONS & APPROVALS

Pre-qualification Submission

The Red Sea Development Company

General Information			
Contractor	MAS Engineering & Construction Company LTD.	Submittal No.	R01-H13C23-ECC-PRQ-ST-0019-Rev 00
Contract No.	R01-H13C23	Date	26 NOV'22
To the Engineer	TRSDC	Approved Subcontractor *(as applicable)*	Hayakel Building-Scaffolding & Formwork

Material Information	R01-H13D02-WSP-SPC-ST-0002		
Material Description *(One item only per Form)*	Prequalification for Hayakel Building-Scaffolding & Formwork		
As per Specification	R01-H13D02-WSP-SPC-ST-0001	Alternative	
Drawing Reference	N/A	BOQ Ref. No.	
Specification Reference	Section 033000	Standards, BS, DIN	

Manufacturer/Supplier			
Company Name	Hayakel Building-Scaffolding & Formwork	Locally Manufactured	YES
Address	Dammam, Saudi Arabia		
Local Agent	Hayakel Building-Scaffolding & Formwork	Other Details	
Program Date *(Material Required on Site)*		Expected Arrival Date *(on Site)*	

Contractor's

Abdul Mohsin		26 NOV'22
Name	Signature	Date

Design Consultant - Comments

Comments: WSP- Status: Approved with comments.
Structural comments (AH): Refer to comments given in attached comments sheet.

Ammar Hasan		27/Nov/2022
Name	Signature	Date

Engineer's - Comments

Comments:

Name	Signature	Date

Status Code

- ☐ Accepted
- ☐ Accepted with Comments
- ☐ Revise and Resubmit
- ☐ Rejected
- ☐ Review not Required

Programme: King Abdullah Financial District (KAFD)

Observation & Comments Sheet (OCS)

PROJECT / PARCEL	Skywalk			PROGRAMME No.	KAFD00256
OCS NUMBER	KAFD-SKW-DAH-PMT-OCS-02062	Rev.	R01	DATE	10-Aug-23
ORIGINATOR	Saudi Arabian Baytur Construction Company			TRANSMITTAL No. / DATE	WF-020413
DOCUMENT No.	KAFD-SKW-SAB-CIV-PQD-00007	Rev.	R01	DISCIPLINE	CIV
DOCUMENT TITLE	Pre-Qualification of HAYAKEL for scaffolding & Formwork Services of Skywalk Concrete Colum			DOCUMENT TYPE	PQD

Comments / Replies Legends & Status	Comment Code Legend (for individual comments):	Reply Code Legend:	Open / Closed
	1 = Action Required; 2 = Note / Advisory / Recommendation	i = Incorporated; ii = Not incorporated for reason stated in reply	

No.	Initial	Page / Section / Sheet	Comment Code	Reviewer Comment	Reply Code	Originator Reply	Reply Status by Reviewer
1	MM	GEN	1	Contractor shall insure compliance with the following as minimum requirement for any prequalification submittal:		All Required Document is Attached Pages from 05 to 265	Closed
2	MM	GEN	1	Submission of Previous approvals are rquired for the similar projects show that (HAYAKEL for scaffolding & Formwork Services) is accepted as Subcontractor of this work for our review and assessment.		Pages from 212 to 265	Closed
3	MM	GEN	1	Management and staff organization chart - to be provided include CV's (technical support documents).		Pages from 5 to 15	Closed
4	MM	GEN	1	Subcontractor scope of works shall be mentioned clearly in details. Additional documents to be provided in case any structural design is a task in the scope of Subcontractor's scope of work.		Pages from 26 to 211	Closed

Programme: King Abdullah Financial District (KAFD)

Observation & Comments Sheet (OCS)

7	MM	GEN	1	Pre-Qualification of HAYAKEL for scaffolding & Formwork Services of Skywalk Concrete Colum, as mentioned in the scope of work is accepted provided that the Company perform/provide all services and tests that will be required in accordance with the Engineering Standards,International Codes, and Project specifications ,Professional Skills.			

Review Status Code:	B	A - Approved	B - Approved with Comments	C - Revise and Resubmit
		D - Rejected		

		Supervision Consultant (SC)		Project Management-Construction Management (PMCM)		Development and Management Company (KAFD-DMC)		Originator	
Reviewer Name(s) / Initials	Position	COMMENTS / STATUS RECOMMENDED BY SC		COMMENTS / STATUS RECOMMENDED BY PMCM		COMMENTS / STATUS ADVISED BY KAFD-DMC		REPLY APPROVED BY	
M.Maassarani	Lead Structure	Name:	Spiridon Mitri	Name:	Richard P. Russell	Name:		Name:	
		Position:	Project Director	Position:	Program Director	Position:		Position:	
		Signature:		Signature:		Signature:		Signature:	
		Date:	10-Aug-23	Date:		Date:		Date:	

Approval status from the Reviewer shall be deemed as permission to proceed but shall not relieve the Originator from full compliance with contractual requirements

ARAMCO APPROVED VENDOR

أرامكو السعودية
saudi aramco

Saudi Aramco E-Reference No. 0010281

Registration Approval Letter

August 20, 2024

Attention : HAYAKEL SCAFFOLDING AND FORMWORK CO (ONE PERSON COMPANY)

CR Number : 2052103598
Supplier Type: Service Provider Only
Country : Saudi Arabia

We are pleased to inform you that HAYAKEL SCAFFOLDING AND FORMWORK CO (ONE PERSON COMPANY) is now registered in the Saudi Aramco Supplier Management System under Vendor Code No. 10113564, provided your company continues to meet all relevant Saudi Arabian and Saudi Aramco standards.

This registration, however, should not be construed as a commitment by Saudi Aramco to procure from you. Being registered as a supplier only grants your company the opportunity, along with other registered sources, to respond to requests for submitting proposals in accordance with Saudi Aramco's established policies and procedures. All procurement instruments including but not limited to service contracts, purchase agreements, or purchase orders will be issued based on the name and address included in your commercial registration (CR), as stated in your Supplier Registration.

Saudi Aramco wishes to remind you that being recognized as a supplier carries with it serious obligations and responsibilities to act in a legal and ethical manner. We wish to remind you of the Saudi Aramco Supplier Code of Conduct (SCOC) which you acknowledged. Failure to abide by the principles set forth in the SCOC can result in adverse actions being taken by Saudi Aramco against you including suspension of you as a supplier. Saudi Aramco also expects each of its suppliers to satisfy each of the requirements of any procurement instrument which might be placed and to act responsibly and reliably as a supply chain supplier.

Material Suppliers should apply for Saudi Aramco Supplier Portal access by forwarding a request to portal-registration@aramco.com. The Supplier Portal is the main electronic business tool used between Saudi Aramco and its suppliers and serves to improve the flow and accuracy of key supply chain information.

For further information or assistance please contact the Saudi Aramco Supplier Help Desk by forwarding a request to SupplierHelpDesk@aramco.com or via the unified call center 800-116-1168 for In-Kingdom suppliers or +966 (11) 290-8950 for Out-of-Kingdom suppliers.

Faisal Hamad Al Dossary, Supervisor
Supplier Registration Unit
Supplier Relationship Management Div

It is the responsibility of the supplier to update Saudi Aramco Supplier Registration Profile through Ariba for the following:
1. Change of Name / Commercial Registration Number / Address / Owner(s)
2. Any change of the supplier location
3. Discontinue supply of approved commodities (9COMs and 9CATS)

This is an electronically generated letter by Saudi Aramco. To verify Supplier approval status, please contact Supplier Help Desk at supplierhelpdesk@aramco.com

Issuance Date: 07/31/2024
CCC Reference Number: 07-822-073124-N

Grant Thornton

Cybersecurity Compliance Certificate

Hayakel Scaffolding and Formwork Co

2052103598

Al Amir Muhammed Bin Fahad Rd , Building # 7495 , Ash Shifa Dist, Postal Code # 32236 , Dammam, Saudi Arabia was subject to an assessment by **Grant Thornton Advisory PLLC** to evaluate its compliance with Saudi Aramco Third Party Cybersecurity Standard (SACS-002). Based on the assessment carried out between **07/17/2024** and **07/31/2024**, Hayakel Scaffolding and Formwork Co was found to be compliant with the Standard.

For the classification of: **General Requirement**, Type: CCC

This certificate is valid for a period of two years from the date of issuance.

Ahmad Zoubi

Authorized Signatory

By Audit Firm

Disclaimer:

This certificate is provided based on the information provided by Hayakel Scaffolding and Formwork Co that indicates their cybersecurity posture at the time of the assessment. Grant Thornton Advisory PLLC has not evaluated the adequacy or appropriateness of the Standard compiled by Saudi Aramco. Grant Thornton Advisory PLLC evaluation was limited to assessment against Saudi Aramco Third Party Cybersecurity Standard (SACS-002) and should not be relied upon as an assurance beyond the areas covered by this Standard. Grant Thornton Advisory PLLC shall not be liable for any loss, damages, costs, or expenses directly or indirectly incurred by any third party, who may rely upon this certificate for whatsoever reason. This certificate is only for the purpose of meeting the requirements of Saudi Aramco and should not be published on any website or relied upon by anyone other than Saudi Aramco.

IAS ACCREDITED Testing Laboratory
TL 1249

FUGRO–SUHAIMI CO. LTD.
P.O. BOX 2165, Dammam 31451, Saudi Arabia
Tel.: (013) 857 4200 / Fax: (013) 858 1529
E-mail: ndt@fugro-suhaimi.com

SLIP TEST CERTIFICATE

Client / Customer	Hayakel Scaffolding and Formwork Co.		
Sample Description	Double Coupler, Embossed Marking: Drop Forged EN74-1 B AB 09 23		
Date Sampled	09-Oct-2024		
Manufacturer	N/A	**FSCL Job No.**	NDT-2024-316
Location	N/A	**Order No.**	DM-MEC-O-24-00622
Project	N/A	**Report No.**	DM-MEC-R-24-04989
Source	N/A	**Date Tested**	10-Oct-2024
Sample Performed By	CLIENT'S REP.	**Date Reported**	17-Oct-2024
Material Specification	EN 74	**General Location**	Dammam
Tested By	MARK EAMANN P HERRERA	**Reported By**	Zaki Nasser
Tightening Torque	75 N-m	**RFI#**	0604-2024
Project Code	DMP-3862	**Client Contact**	Nisar.ahmad@hayakel-ksa.com
Test Equipment & Calib. Date	UTM Machine & 24 September 2024	**Sampling Plan/Method**	EN74
Environment Condition	Temp.:21.0°C / Humidity:55%	**Result Provider**	Internal / FSCL
Type of Test & Method	Slip Test		

Sample Designation	Load kN, (lbf)	Results
Slip Test	L-1=10.20 (2,293) L-2=15.30 (3,440)	Displacement Δ1= 1.0mm Passed Displacement Δ2= 2.20mm Passed

"Decision Rule: Simple acceptance, MU is not taken into account."

REFERENCE STANDARD

The above test was conducted in accordance with BS EN74-1:2022
Permissible range of displacement at;
Minimum Class B = L-1 = 10kN / L-2 = 15kN
With maximum displacement Δ1 = 7.0 mm & Δ2 = 2.0 mm

Remarks	The results relate only to the items tested. The lab is responsible for all the information provided in the report, except when information is provided by the customer.

FUGRO - SUHAIMI
NDT/WSS DIVISION
DAMMAM LAB (LH 411)

Checked By: Mohammed Alshammari Approved By: Arivoli

End of Report

*** The PDF document is electronically generated and digitally signed ***

IAS ACCREDITED
TL-1249

FUGRO–SUHAIMI CO. LTD.
P.O. BOX 2165, Dammam 31451, Saudi Arabia
Tel.: (013) 857 4200 / Fax: (013) 858 1529
E-mail: ndt@fugro-suhaimi.com

TENSILE & YIELD TEST CERTIFICATE

Client / Customer	Hayakel Scaffolding and Formwork Co.		
Sample Description	Scaffolding Cuplock Standard, Marking : SSF EN 32 17		
Date Sampled	09-Oct-2024	**FSCL Job No.**	NDT-2024-316
Manufacturer	N/A	**Order No.**	DM-MEC-O-24-00622
Project	N/A	**Report No.**	DM-MEC-R-24-04986
Sample Location	N/A	**Date Tested**	17-Oct-2024
Source	N/A	**Date Reported**	17-Oct-2024
Sample Performed By	CLIENT'S REP.	**General Location**	Dammam
Material Specification	EN 32		
Tested By	DHAL BAHADUR RANA	**Reported By**	Zaki Nasser
Project Code	DMP-3862	**RFI#**	0604-2024
Test Equipment & Calib. Date	UTM Machine & 24 September 2024	**Client Contact**	Nisar.ahmad@hayakel-ksa.com
Environment Condition	Temp.:21.0°C / Humidity:55%	**Sampling Plan/Method**	ASTM A370-22
Type of Test	Tensile & Yield Test	**Result Provider**	Internal/FSCL

Sample Designation	:	T-1
Thickness (mm)	:	3.14
Width (mm)	:	12.47
Cross Section Area (mm^2)	:	39.16
Yield Load (KN)	:	16.80
Yield Strength (MPa) Min. Req. 320 MPa	:	429.01
Yield Strength (psi)	:	62,220
Tensile Load (KN)	:	18.30
Tensile Strength (MPa)	:	467.31
Tensile Strength (psi)	:	67,775
Gauge Length (mm)	:	50.00
Elongation Length (mm)	:	63.60
% of Elongation, Min. Req. : 20	:	27.20
Result	:	Passed

REFERENCE STANDARDS
The above test was conducted in accordance with CSM II Scaffolding and was found to be within the specification.

Comment on test result	The results relate only to the items tested. The lab is responsible for all the information provided in the report, except when information is provided by the customer.

Fugro - Suhaimi
NDT/WSS DIVISION
DAMMAM LAB CR 4110

Checked By: Mohammed Alshammari Approved By: Arivoli

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TL-1145

FUGRO–SUHAIMI CO. LTD.
P.O. BOX 2165, Dammam 31451, Saudi Arabia
Tel.: (013) 857 4200 / Fax: (013) 858 1529
E-mail: ndt@fugro-suhaimi.com

TENSILE & YIELD TEST CERTIFICATE

Client / Customer	Hayakel Scaffolding and Formwork Co.		
Sample Description	Scaffolding Cuplock Ledger, Marking : SSF EN 32 17		
Date Sampled	09-Oct-2024	**FSCL Job No.**	NDT-2024-316
Manufacturer	N/A	**Order No.**	DM-MEC-O-24-00622
Project	N/A	**Report No.**	DM-MEC-R-24-04987
Sample Location	N/A	**Date Tested**	17-Oct-2024
Source	N/A	**Date Reported**	17-Oct-2024
Sample Performed By	CLIENT'S REP.	**General Location**	Dammam
Material Specification	EN 32		
Tested By	DHAL BAHADUR RANA	**Reported By**	Zaki Nasser
Project Code	DMP-3862	**RFI#**	0604-2024
Test Equipment & Calib. Date	UTM Machine & 24 September 2024	**Client Contact**	Nisar.ahmad@hayakel-ksa.com
Environment Condition	Temp.:21.0°C / Humidity:55%	**Sampling Plan/Method**	ASTM A370-22
Type of Test	Tensile & Yield Test	**Result Provider**	Internal/FSCL

Sample Designation	:	**T-1**
Thickness (mm)	:	3.24
Width (mm)	:	12.63
Cross Section Area (mm^2)	:	40.92
Yield Load (KN)	:	16.90
Yield Strength (MPa) Min. Req.320 MPa	:	413.00
Yield Strength (psi)	:	59,898
Tensile Load (KN)	:	19.60
Tensile Strength (MPa)	:	478.98
Tensile Strength (psi)	:	69,467
Gauge Length (mm)	:	50.00
Elongation Length (mm)	:	64.50
% of Elongation, Min. Req. : 20	:	29.00
Result	:	Passed

REFERENCE STANDARDS
The above test was conducted in accordance with CSM II Scaffolding and was found to be within the specification.

Comment on test result	The results relate only to the items tested. The lab is responsible for all the information provided in the report, except when information is provided by the customer.

Fugro - Suhaimi
NDT/WSS DIVISION
DAMMAM LAB CR 4116

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Testing Laboratory
TL 1245

FUGRO–SUHAIMI CO. LTD.
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SLIP TEST CERTIFICATE

Client / Customer	Hayakel Scaffolding and Formwork Co.		
Sample Description	Swivel Coupler, Embossed Marking: D/F EN74-1 Class B NTC-GE10/23 Made in India		
Date Sampled	09-Oct-2024		
Manufacturer	N/A	**FSCL Job No.**	NDT-2024-316
Location	N/A	**Order No.**	DM-MEC-O-24-00622
Project	N/A	**Report No.**	DM-MEC-R-24-04988
Source	N/A	**Date Tested**	10-Oct-2024
Sample Performed By	CLIENT'S REP.	**Date Reported**	17-Oct-2024
Material Specification	EN 74-1	**General Location**	Dammam
Tested By	MARK EAMANN P HERRERA	**Reported By**	Zaki Nasser
Tightening Torque	75 N-m	**RFI#**	0604-2024
Project Code	DMP-3862	**Client Contact**	Nisar.ahmad@hayakel-ksa.com
Test Equipment & Calib. Date	UTM Machine & 24 September 2024	**Sampling Plan/Method**	EN74-1
Environment Condition	Temp.:21.0°C / Humidity:55%	**Result Provider**	Internal / FSCL
Type of Test & Method	Slip Test		

Sample Designation	Load kN, (lbf)	Results
Slip Test	L-1= 10.20 (2,293) L-2= 15.10 (3,395)	Displacement Δ1= 5.6 mm Passed Displacement Δ2= 7.50 mm Passed

"Decision Rule: Simple acceptance, MU is not taken into account."

REFERENCE STANDARD

The above test was conducted in accordance with BS EN74-1:2022
Permissible range of displacement at;
Minimum Class B = L-1 = 10kN / L-2 = 15kN
With maximum displacement Δ1 = 7.0 mm & Δ2 = 2.0 mm

Remarks	The results relate only to the items tested. The lab is responsible for all the information provided in the report, except when information is provided by the customer.

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NDT/WSS DIVISION
DAMMAM LAB (CR 4110)

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Note: The above test Certificate/Reports shall not be reproduced except in full without the written approval of FSL's Laboratory.

'End of Report'

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E-mail: ndt@fugro-suhaimi.com

SLIP TEST CERTIFICATE

Client / Customer	Hayakel Scaffolding and Formwork Co.		
Sample Description	Board Retaining Coupler, Embossed Marking: D/F EN 74-1 Class B NTC GE 10/23 Made in India		
Date Sampled	09-Oct-2024		
Manufacturer	N/A	**FSCL Job No.**	NDT-2024-316
Location	N/A	**Order No.**	DM-MEC-O-24-00622
Project	N/A	**Report No.**	DM-MEC-R-24-05008
Source	N/A	**Date Tested**	10-Oct-2024
Sample Performed By	CLIENT'S REP.	**Date Reported**	17-Oct-2024
Material Specification	EN 74-1	**General Location**	Dammam
Tested By	MARK EAMANN P HERRERA	**Reported By**	Zaki Nasser
Tightening Torque	75 Nm	**RFI#**	0604-2024
Project Code	DMP-3862	**Client Contact**	Nisar.ahmad@hayakel-ksa.com
Test Equipment & Calib. Date	UTM Machine & 24 September 2024	**Sampling Plan/Method**	EN 74
Environment Condition	Temp.:21.0°C / Humidity:55%	**Result Provider**	Internal / FSCL
Type of Test & Method	Slip Test		

Sample Designation	Load kN, (lbf)	Results
Slip Test	1.20 (270)	No Slipping Occurred Passed

"Decision Rule: Simple acceptance, MU is not taken into account."

REFERENCE STANDARD

The above test was conducted in accordance with BS1139-2.2-2009+A1-2015
Permissible range of displacement at;
Minimum required load bearing capacity = 0.63
With maximum displacement Δ1 = 0 mm

Remarks	The results relate only to the items tested. The lab is responsible for all the information provided in the report, except when information is provided by the customer.

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NDT/WSS DIVISION
DAMMAM LAB LIC # 4110

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End of Report

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Testing Laboratory
TL-1243

FUGRO–SUHAIMI CO. LTD.
P.O. BOX 2165, Dammam 31451, Saudi Arabia
Tel.: (013) 857 4200 / Fax: (013) 858 1529
E-mail: ndt@fugro-suhaimi.com

SLIP TEST CERTIFICATE

Client / Customer	Hayakel Scaffolding and Formwork Co.		
Sample Description	Putlog / Single Coupler, Embossed Marking: Drop Forged SGB BS 1139 MK 3020		
Date Sampled	09-Oct-2024		
Manufacturer	N/A	**FSCL Job No.**	NDT-2024-316
Location	N/A	**Order No.**	DM-MEC-O-24-00622
Project	N/A	**Report No.**	DM-MEC-R-24-05009
Source	N/A	**Date Tested**	10-Oct-2024
Sample Performed By	CLIENT'S REP.	**Date Reported**	17-Oct-2024
Material Specification	BS 1139	**General Location**	Dammam
Tested By	MARK EAMANN P HERRERA	**Reported By**	Zaki Nasser
Tightening Torque	75 N-m	**RFI#**	0604-2024
Project Code	DMP-3862	**Client Contact**	Nisar.ahmad@hayakel-ksa.com
Test Equipment & Calib. Date	UTM Machine & 24 September 2024	**Sampling Plan/Method**	BS 1139
Environment Condition	Temp.:21.0°C / Humidity:55%	**Result Provider**	Internal / FSCL
Type of Test & Method	Slip Test		

Sample Designation	Load kN, (lbf)	Results
Slip Test	1.30 (292)	No Slipping Occurred Passed

"Decision Rule: Simple acceptance, MU is not taken into account."

REFERENCE STANDARD

The above test was conducted in accordance with BS 1139: Section 2.2:2009 +A1 2015
Permissible range of displacement at;
Minimum required load bearing capacity = 0.63 KN
With maximum displacement Δ1 = 0 mm

Remarks	The results relate only to the items tested. The lab is responsible for all the information provided in the report, except when information is provided by the customer.

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NDT/WSS DIVISION
DAMMAM LAB (TL-1243)

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End of Report

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Registration with SABIC.

Congratulations! SABIC has approved your supplier registration. Hayakel Scaffolding and Formwork Co has now been included in the supplier database of SABIC.

You will be notified when next steps of the supplier onboarding process require your attention.

Best Regards,
SABIC Global Supplier Relationship Management Team

SATCO

HAYAKEL

Certificate of Appreciation

This Certificated is awarded to

M/S Hayakel Scaffolding and Formwork Co.

This certificate of appreciation from Saudi Arabian Trading and Construction Company in recognition for its outstanding support for the SATCO C66R Faculty Apartment Project in Jubail Saudi Arabia. The scope of works included: Cup-Lock Scaffolding for Slab and Access and Formwork for Wall & Column.

Start Project: Jan-2021

Finished Project: Dec-2024

Given This On the 1st of January, 2025

Project Manager

Project Director

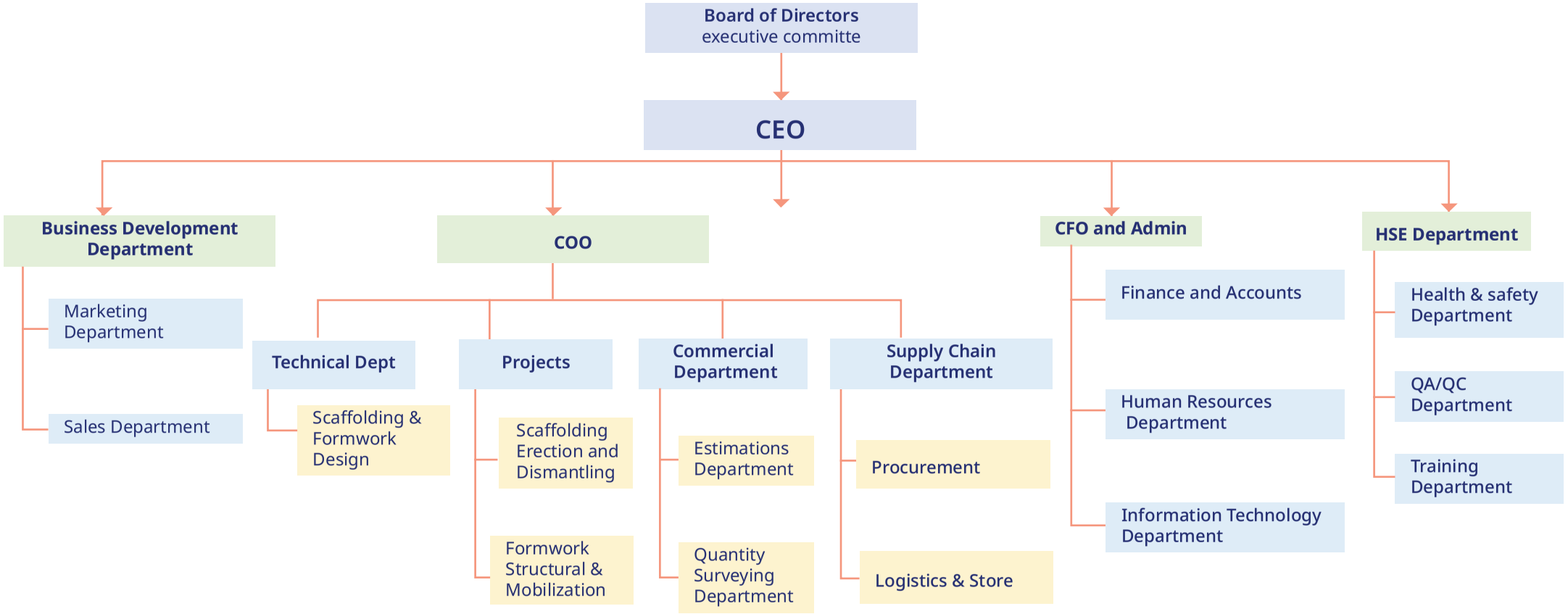
BEST AWARDS

Saudi Arabian Trading & Construction Co.

SATCO

HAYAKEL SCAFFOLDING AND FORMWORK CO

ORGANIZATIONAL CHART



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