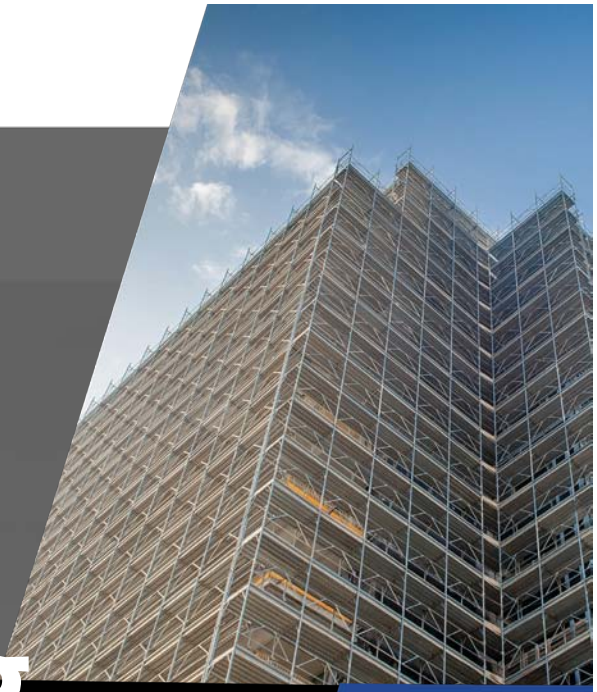
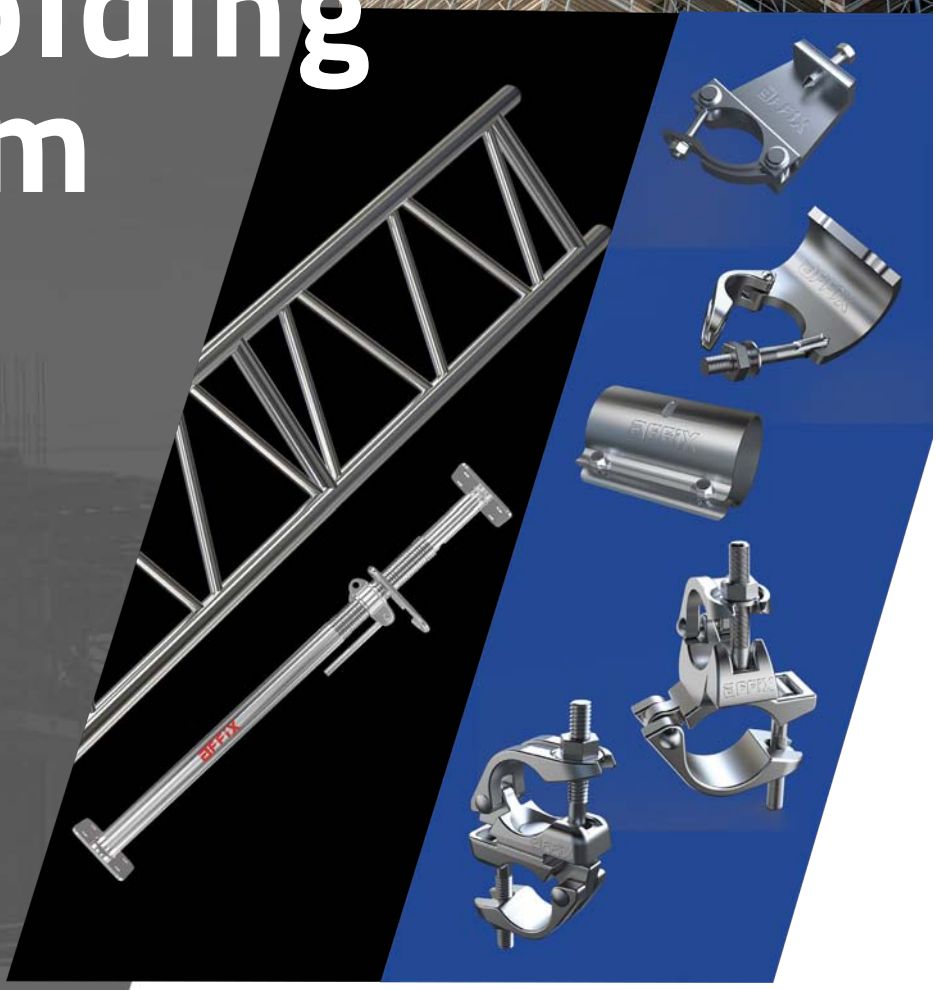
Cuplock Scaffolding System





AFFIX

TÜV INDIA
TÜV NORD GROUP

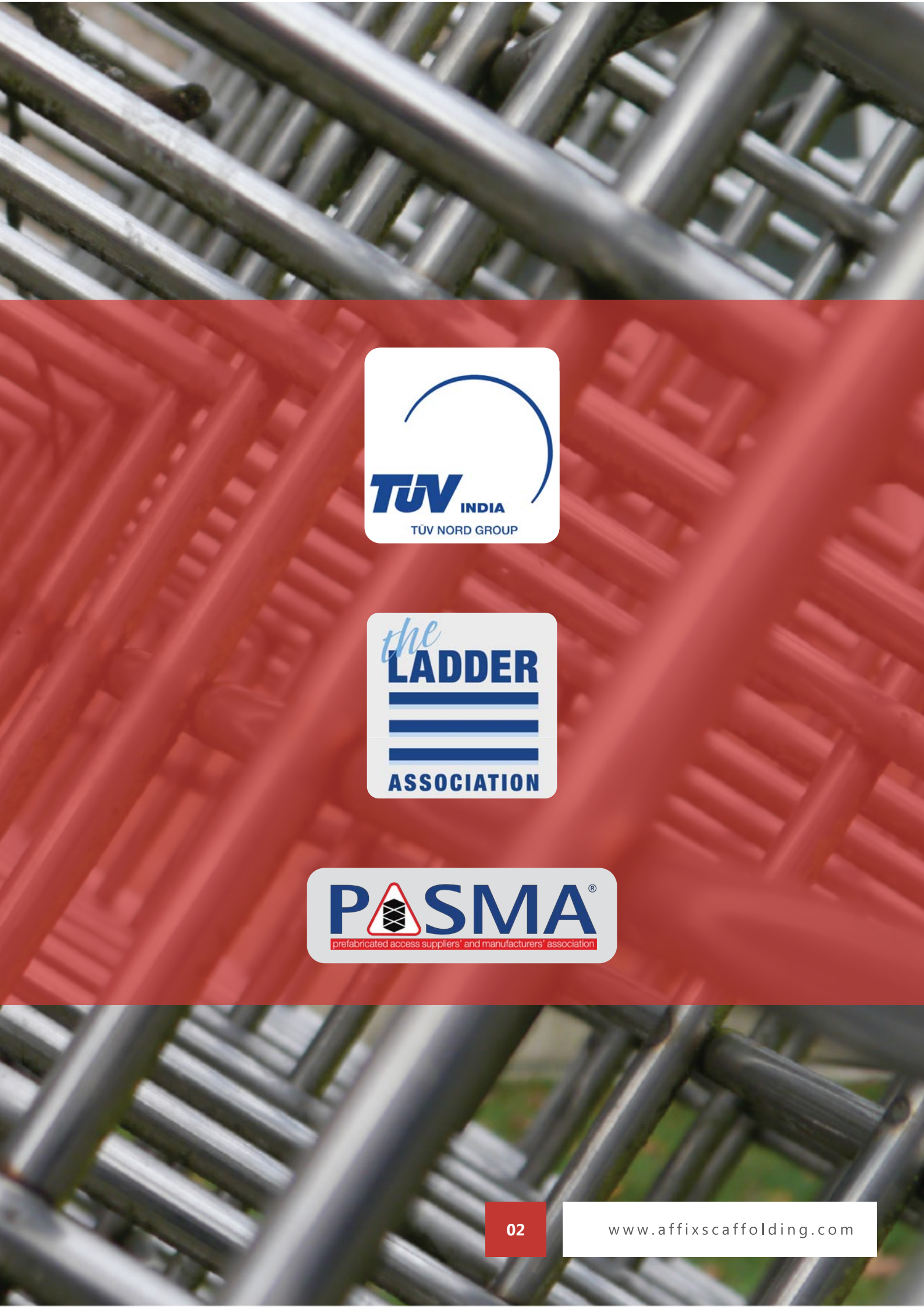
COMPANY PROFILE

AFFIX is one of the market leaders in Work-At-Height solutions and Access Systems since 2005. We are based out of **Qatar, UAE and India.** Our state of art, technologically advanced production facility is equipped with latest Robotic welding machines and production machinery. We have our own Innovation and R&D team set-up in Qatar

We are priviledged to be a **Manufacturing Member of PASMA, UK** and also a **Manufacturing Member of The Ladder Association, UK.**

We are manufacturers and suppliers of various work at height solutions which are TUV certified and access systems like Aluminium and Steel Scaffoldings, Cuplock System, Shoring System, Fall Protection System, Ladders, Working Platforms, Bespoke products like Aviation, Rail and Commercial Vehicle's maintenance docks and platforms.

Safety is our prime concern.
All our products are **duly Certified by TUV** or other global Certification bodies for their required corresponding European/ International Standards.


TÜV INDIA
TÜV NORD GROUP
the LADDER ASSOCIATION
PASMA
prefabricated access suppliers' and manufacturers' association

Cuplock Scaffolding System

The official name of the Cup and the Lock system of scaffolding is **Cuplok**, but the most common trend is that it is known in the industry by the name of **Cuplock**, so either of them are fine.

Cuplock Scaffolding System is a scaffolding system where-in the revolutionary "Cup" and "Blade" is used to lock the vertical/standard and horizontal/ledger together. The blades are locked by twisting the cup by hand or just a simple hammer blow. This scaffolding system does not use aby nut, bolt or wedge. Our Cuplock Scaffolding System complies with **EN 12810 and EN 12811.**

AFFIX Cuplock Scaffolding System is a fully Painted/Galvanized multi-purpose steel scaffold for general access and supporting vertical loads. It is a type of modular or systems scaffolding used for different industrial applications. They are very useful in the commercial, industrial, and residential markets.

AFFIX uses **S275 JRH Grade Steel** for all the components of Cuplock Scaffolding.

Physical Property	**Value**
Density	7800 Kg/M^3
Modulus of Elasticity	210 GPa
Thermal Expansion	11 µm/m-k

Mechanical Property	**Value**
Yield Strength	275 N/mm^2
Tensile Strength	370 - 530 N/mm^2
Shear Modulus	80 GPa
Hardness Vickers	115 - 154 Vickers - HV
Elongation (in 200 mm)	20%

Chemical composition

Carbon	Silicon	Magnesium	Potassium	Sulphur	Iron
0.25 max	0.05 max	1.6	0.04	0.05	Balance

Standard Components of the Cuplock

Cuplock Standard/ Vertical : These are the vertical members of the Cuplock system.

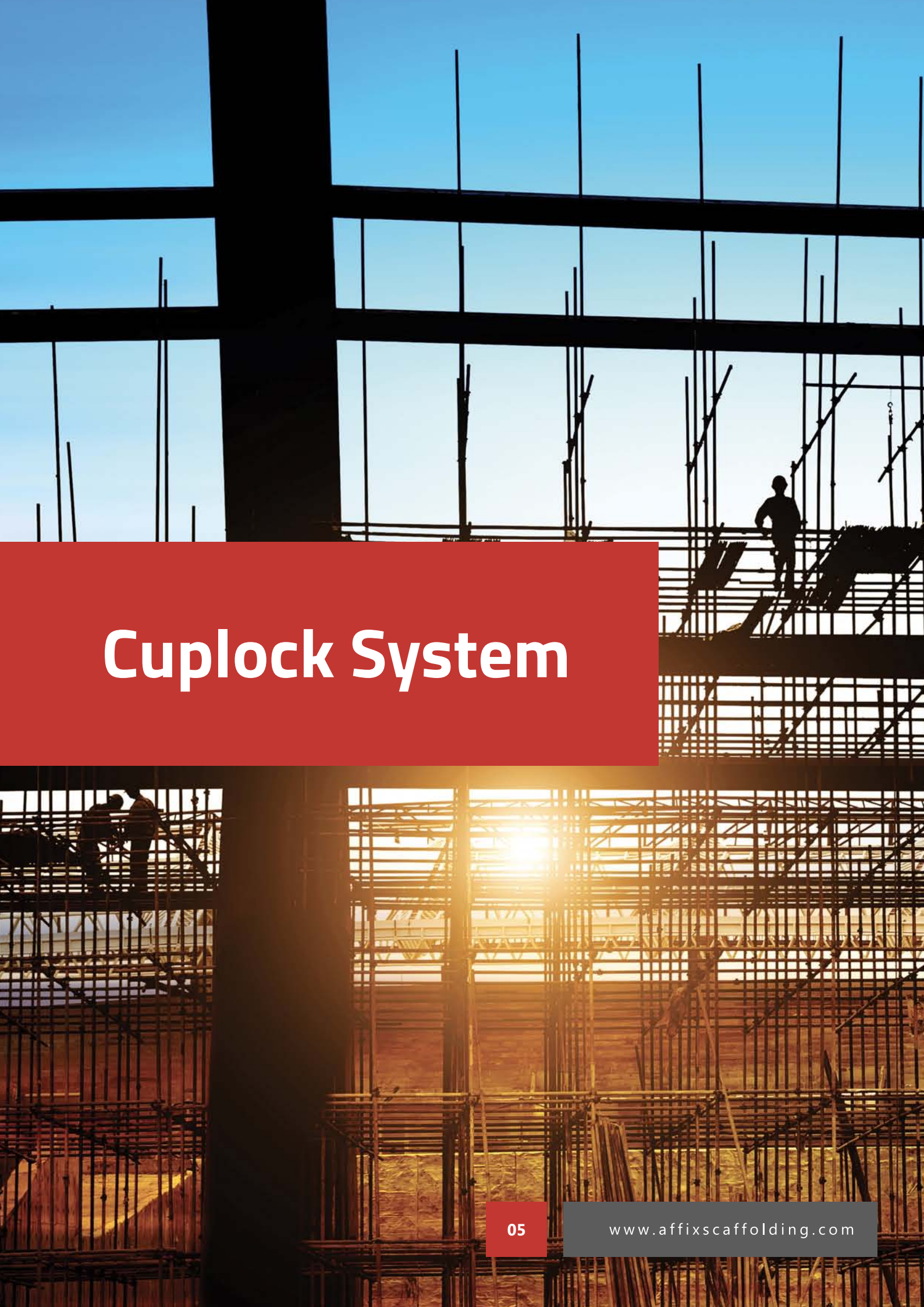
Cuplock Ledger/ Horizontal : These are the horizontal members of the Cuplock system.

Cuplock Intermediate Transom : These members help provide intermediate support for standard scaffold walk boards by spanning between the inner and outer ledgers.

Cuplock Swivel Face Brace/ Diagonal : The utility of this member is to provide transverse and longitudinal bracing to scaffold structures.

Features:

- **Easy to assemble:** No nut, bolt or wedge, just lock the blade into cup at each node on the standard.
- **Simple:** Fast and simple to erect with only four component fastenings.
- **Light weight:** Manufactured using 3.2mm thickness high grade steel
- **Economical:** Cuplock Scaffolding System comes with only three basic components so effectively economical compared to traditional scaffolding systems.
- **Fast:** 30%-50% faster assembly compared to the other traditional scaffolding systems.
- **Durable:** Hot-Dip-Galvanized/ Fully Painted finish provides a low maintenance, long life.
- **Versatile:** With 500mm cup intervals on the verticals, Cuplock Scaffolding System is extremely versatile and it's applications can be in Facade, Shoring Structures, Circular structures, Birdcages, Staircases, Mobile Towers etc.
- **Safe:** The Safe Working Loads on the platforms will vary between 0.75kN and 3kN per square metre depending on the configuration of the scaffold.
- **Flexible:** 0.6m to 3.0m bays using boards or battens.



Cuplock System

EN 12810 and 12811 Certificate

TÜV INDIA
TÜV NORD Group

Statement of Confirmation

No.: CE/21-22/096

Client's Reference – EN-AS-FS-2122-000

Name & Address of the Manufacturer:
AFFIX SCAFFOLDING
Hugo Building, Office No.13,
Opp Old Fathima Shopping Centre
Umm Dom Street, Muaither, Doha, Qatar.

Product Type:

Cuplok Scaffolding

A. Cuplok Standard/Vertical
B. Cuplok Ledger/Horizontal
C. Cuplok Intermediate Transom
D. Cuplok Swivel Face Brace/Diagonal

Review Results/Observations:
Based on the tests carried out, review of the test reports –
the above product/s, generally comply with the Safety requirements of the European Standard:

EN-12810-1:2003, EN -12811-1:2003

Validity: 06th October 2024 (Subject to annual factory production control audits)

Technical Inspection Services TÜV India

Mahesh Gaur
General Manager - Product Certification and Product Testing Laboratory

(This Statement of Confirmation is valid under the conditions stated overleaf)

Job no: 8119597675

Registered & Head Office: 801, Raheja Plaza I, LBS Marg, Ghatkopar (W), Mumbai 400 086 | Email: infoindia@tuv-nord.com Tel: +91-22-66477000
Website: www.tuv-nord.com/in Toll Free Number: 1800-209-0902

ISO Certificate

CERTIFICATE

This is to Certify that the
Quality Management System
of

AFFIX SCAFFOLDING WLL

HUGO BUILDING, OFFICE NO:13, OPP: FATIMA SHOPPING CENTER,
UMM DOM STREET, MUAITHER, STATE OF QATAR.

has been independently assessed and is compliant
with the requirements of

ISO 9001:2015

This Certificate is applicable to the following product or service ranges:

MANUFACTURING, SUPPLY & INSTALLATION OF CUPLOCK SCAFFOLDING, FRAMWORK, ALUMINIUM SCAFFOLDING & LADDERS, SCAFFOLDING RENTAL, FIXING, DISMANTLING & MAINTENANCE SERVICES.

Certificate No.: QA86716A

Date ofinitial registration	09 October 2019
Date of this Certificate	09 October 2019
Surveillance audit on or before	08 October 2020
Recertification Due / Certificate expiry	08 October 2022

This Certificate is property of LMS Certifications and remains valid subject to satisfactory surveillance audits.

Director

For verification and updated information concerning the present certificate visit to www.lmscert.com
This Certificate is the property of LMS Certification Limited and shall be returned immediately when demanded.

IAS ACCREDITED Management Systems Certification Body MSCB132

IAF

LMS Certification Limited
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Phone : +44 2089355094
Visit :- www.lmscert.com
E-mail :- info@lmscert.com

LMS Certification Limited

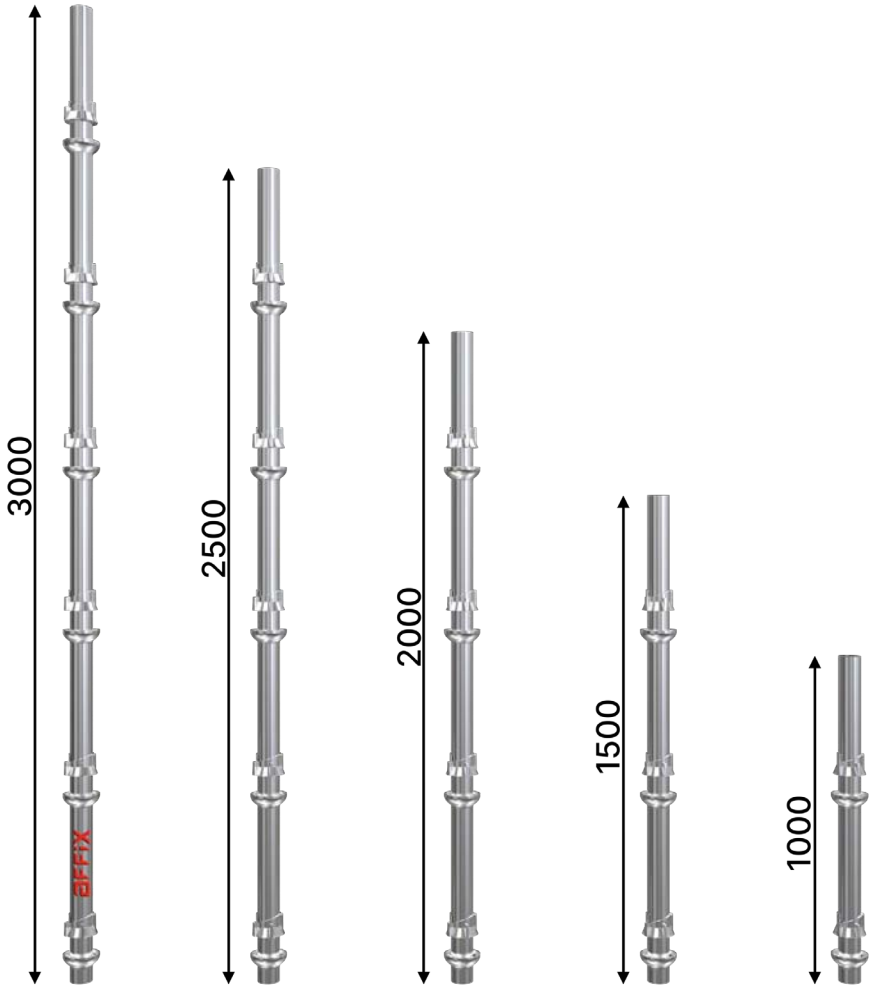
LMS/IAS/F109Q/17/REV02

Cuplock Standard

Model No. FCC01

- Fabricated out of 48.3mm OD x 3.2mm thick high grade steel tube.
- All standards have the lower part of the cups at 0.5m intervals with captive rotating top-cups securing up to 4 components.
- The lowest bottom cup is welded at 80mm from the bottom end of the standard and the highest bottom cup is welded at 420 from the upper end of the standard.
- Every Standard is joined vertically using a Spigot

Code	Description	Size	Weight(KG)
FCC0110	Cuplock Standard 1.0 Mtr	OD 48.3mm X 3.2mm THK	4.90
FCC0115	Cuplock Standard 1.5 Mtr	OD 48.3mm X 3.2mm THK	7.15
FCC0120	Cuplock Standard 2.0 Mtr	OD 48.3mm X 3.2mm THK	9.80
FCC0125	Cuplock Standard 2.5 Mtr	OD 48.3mm X 3.2mm THK	11.90
FCC0130	Cuplock Standard 3.0 Mtr	OD 48.3mm X 3.2mm THK	14.30

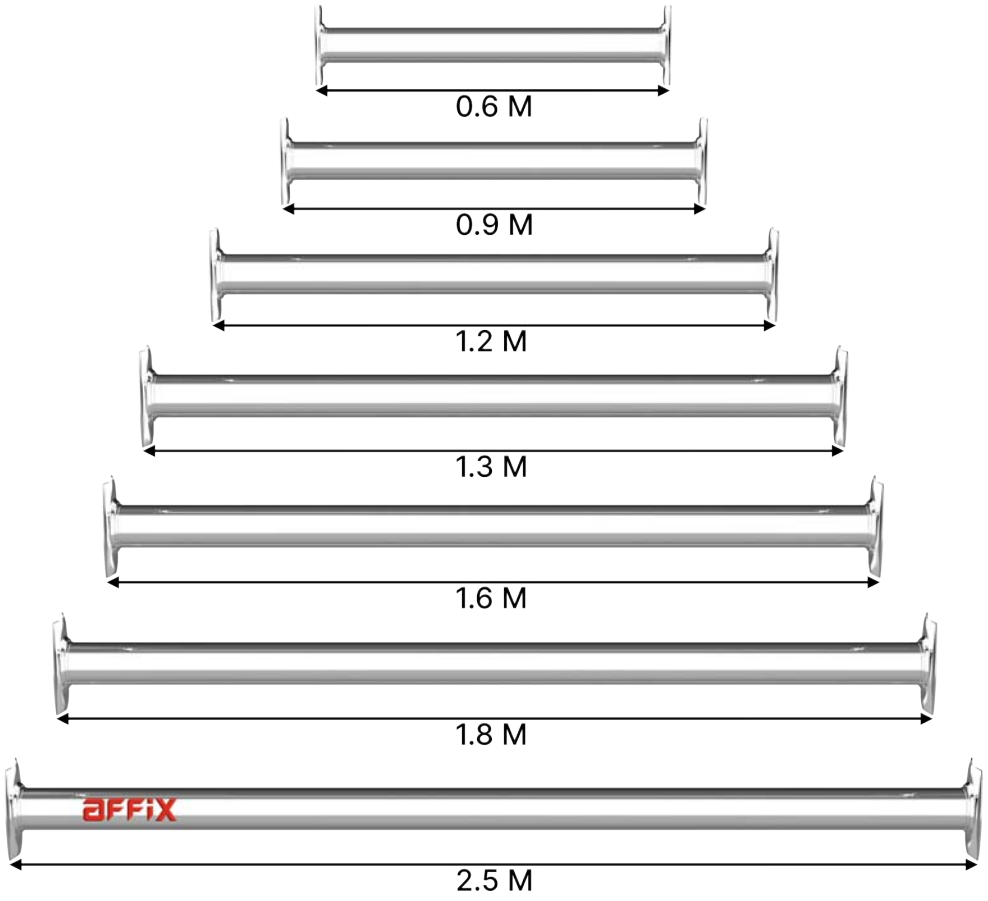


Cuplock Ledger

Model No. FCC02

- Ledgers are used as the main horizontal connecting members for the Cuplock system.
- Ledgers are manufactured from 48.3mm OD x 3.2mm thick scaffolding tube with forged steel blades at both the ends.
- The ledger blades fit into the bottom cups of the standards and are locked in place by the corresponding top cups.
- These are available in various lengths to provide the desired grid specification for scaffolding or formwork.

Code	Description	Size	Weight(KG)
FCC0225	Cuplock Ledger 2.5 Mtr	OD 48.3mm X 3.2mm THK	8.30
FCC0218	Cuplock Ledger 1.8 Mtr	OD 48.3mm X 3.2mm THK	6.80
FCC0216	Cuplock Ledger 1.6 Mtr	OD 48.3mm X 3.2mm THK	6.05
FCC0213	Cuplock Ledger 1.3 Mtr	OD 48.3mm X 3.2mm THK	5.05
FCC0212	Cuplock Ledger 1.2 Mtr	OD 48.3mm X 3.2mm THK	4.05
FCC0210	Cuplock Ledger 1.0 Mtr	OD 48.3mm X 3.2mm THK	3.50
FCC0209	Cuplock Ledger 0.9 Mtr	OD 48.3mm X 3.2mm THK	3.00
FCC0206	Cuplock Ledger 0.6 Mtr	OD 48.3mm X 3.2mm THK	2.35
FCC0204	Cuplock Ledger 0.4 Mtr	OD 48.3mm X 3.2mm THK	1.60

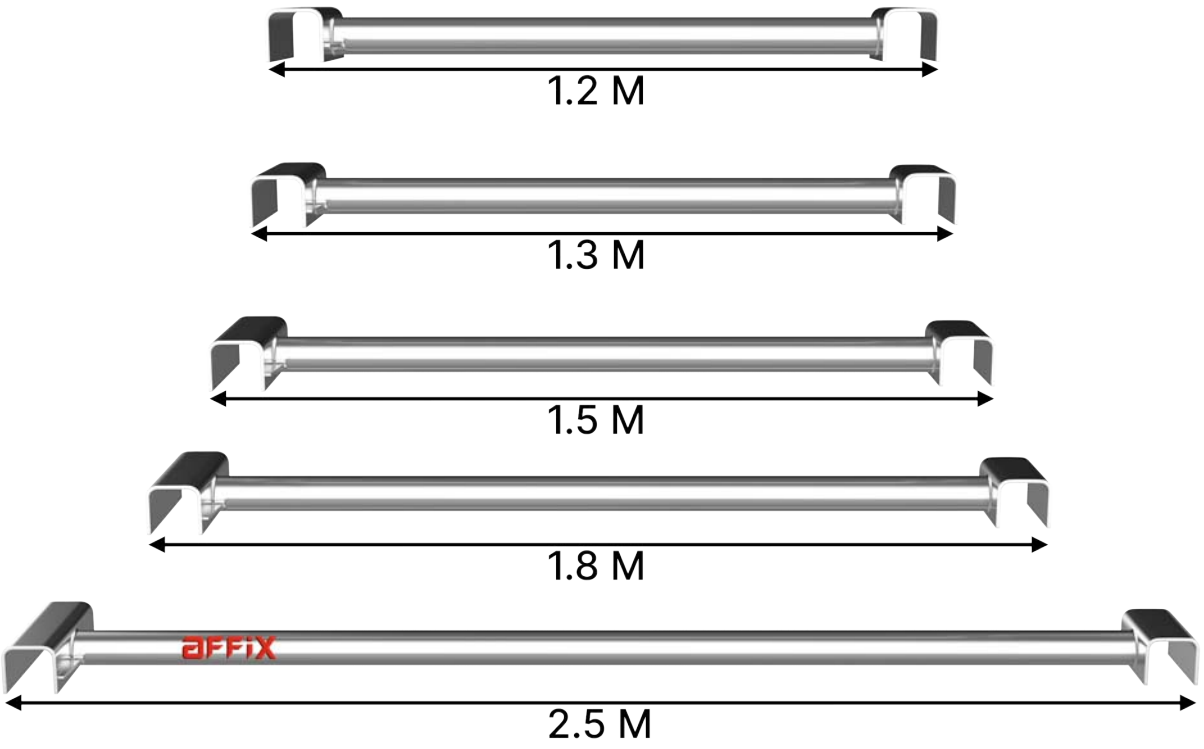


Cuplock Intermediate Transom

Model No. FCC03

- Transoms are manufactured from 48.3mm OD x 3.2mm thick scaffolding tube.
- Transoms are available in 8 different sizes to fit design and site requirements.
- The Transom is designed such that it enables the splitting of a bay to create an opening between decked platforms.
- Transom provides mid-bay support for scaffolding boards by spanning between the inner and outer ledgers.
- This member is also used for the supporting of Timber scaffolding boards when system decks are not used.

Code	Description	Size	Weight(KG)
FCC0325	Cuplock Intermediate Transom 2.5 Mtr	OD 48.3mm X 3.2mm THK	9.50
FCC0318	Cuplock Intermediate Transom 1.8 Mtr	OD 48.3mm X 3.2mm THK	7.30
FCC0316	Cuplock Intermediate Transom 1.6 Mtr	OD 48.3mm X 3.2mm THK	6.90
FCC0313	Cuplock Intermediate Transom 1.3 Mtr	OD 48.3mm X 3.2mm THK	6.20
FCC0312	Cuplock Intermediate Transom 1.2 Mtr	OD 48.3mm X 3.2mm THK	5.20
FCC0310	Cuplock Intermediate Transom 1 Mtr	OD 48.3mm X 3.2mm THK	4.10
FCC0309	Cuplock Intermediate Transom 0.90 Mtr	OD 48.3mm X 3.2mm THK	3.69
FCC0306	Cuplock Intermediate Transom 0.60 Mtr	OD 48.3mm X 3.2mm THK	2.46



Cuplock Swivel Face Braces

Model No. FCC04

- Cuplock braces are manufactured from 48.3mm OD x 3.2mm thick scaffolding tube and each brace has two swivel blade ends.
- Their function is to provide transverse and longitudinal bracing to scaffold structures which removes the possibility of any ‘sway' in the scaffold structure.
- This member comes with a locking device to prevent any accidental movement of the member.
- A Swivel Face Brace is used on the elevation or face of the scaffold to “lock” the Standard and Ledgers into a rigid bay.
- It is a good practice to have one brace on every fourth bay and zigzag up the face of the scaffold.
- Attach the braces with more versatility to any location with use of Swivel Face Brace. It can also be used for mid or top guard rails.

Code	Description	Size	Weight(KG)
FCC042520	Swivel Face Brace	2500mm X 2000mm	13.00
FCC042515	Swivel Face Brace	2500mm X 1500mm	12.00
FCC041820	Swivel Face Brace	1800mm X 2000mm	11.10
FCC041815	Swivel Face Brace	1800mm X 1500mm	9.80

Cantilever Frame

Model No. FCC05

- Cantilever Frames are used for providing support to decking or formwork at edges.
- The frame can also accept jacks in three positions at the other end at 1.2m, 1.25m, and 1.3m from the centerline of the standard.
- Cantilever frames are designed with blade ends that can be easily fitted in the cup joint.

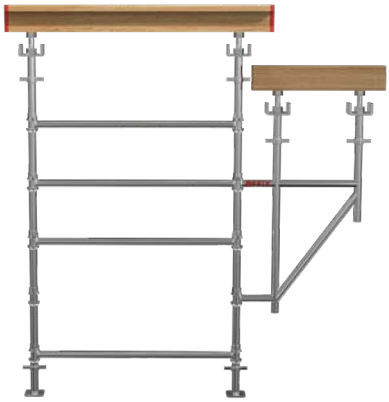
Code	Description	Size (mm)	Weight(KG)
FCC0515	Cantilever Frame	1500	16.20

Double Cantilever Frame

Model No. FCC06

- This is used to provide vertical support for edge beams of slab and transfer the applied load to Cuplock Standard.
- Double Cantilever have two blade ends connected to standard to ensure the fixed connection with Cuplock vertical Standard.

Code	Description	Size (mm)	Weight(KG)
FCC0639	Double Cantilever	700/390	10.95
FCC0660	Double Cantilever	700/600	11.50

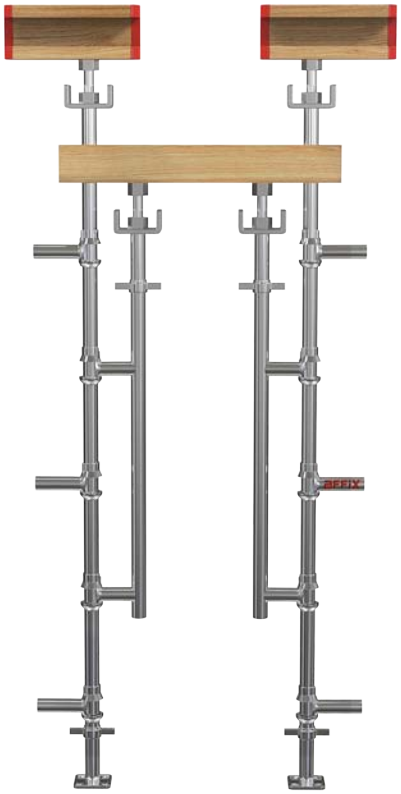


Beam Bracket

Model No. FCC07

- These are used to provide vertical support for internal beams of slab and transfer the applied load.
- Beam Brackets are used to support the drop beams engaged within the regular slab support grid.
- This eliminates the need for the beam bottoms to be propped up from the ground.
- Beam Brackets have two blade ends connected to standard.
- The Beam Brackets are capable of receiving adjustable jacks and standards for reaching the beam bottom level. It has a safe load carrying capacity of 20KN.

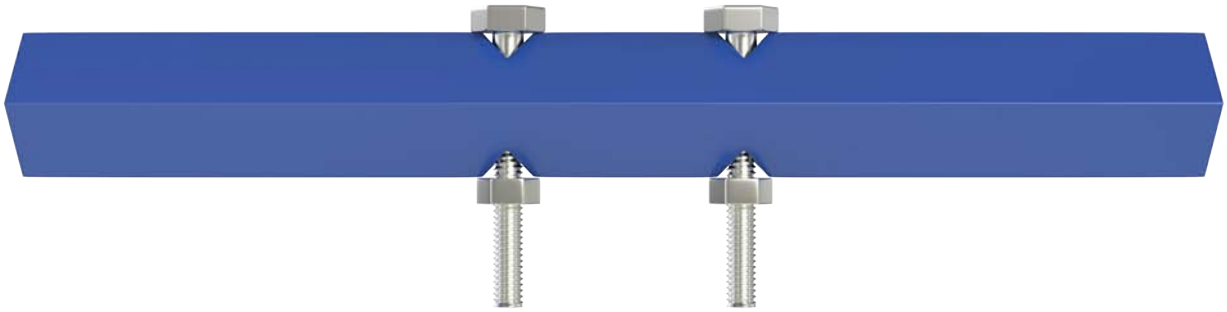
Code	Description	Size (mm)	Weight(KG)
FCC0710	Beam Bracket	1000	6.45



Cuplock Spigot Pin

Model No. FCF01

- Spigot is a conjunctive component of the Cuplock system and is used to join one standard to another vertically.
- The spigots come in 250mm long size.
- The spigots and the standards are drilled with matching holes to fix the locking pins. The locking pins are a must when it is necessary to resist minor tensile forces between standard members.

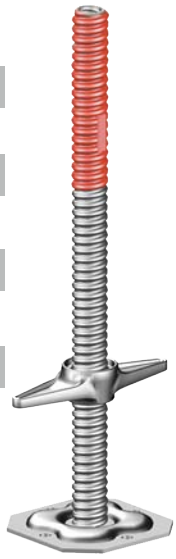


Adjustable Base Jack

Model No. FCF02

- The Adjustable Base Jacks are made of steel plate and screw jack.
- These fittings are available in two types (Hollow and solid).
- These Jacks provide a method of adjustment for Cuplock structure. It fits directly into the Cuplock Standard.
- The base plate at the bottom provides stability to the structure.
- The adjustable threaded pipe is made of 4mm thick steel pipe with 38mm OD.
- The adjustable threaded pipe has a nut restraint for adjustment and also to ensure the stem always has a minimum engagement inside the standard of upto 150mm.
- The adjustable base jacks provide 500mm of thread adjustment.

Code	Description	Size (mm)	Weight(KG)
FCF02670H	Adjustable Base Jack Hollow	OD 38/4mm X 670mm	3.54
FCF02760H	Adjustable Base Jack Hollow	OD 38/4mm X 760mm	3.85
FCF02860H	Adjustable Base Jack Hollow	OD 38/4mm X 860mm	4.20
FCF02670S	Adjustable Base Jack Solid	OD 36mm X 670mm	6.00
FCF02760S	Adjustable Base Jack Solid	OD 36mm X 760mm	6.65
FCF02860S	Adjustable Base Jack Solid	OD 36mm X 860mm	7.36



Adjustable U Head Jack

Model No. FCF03

- Adjustable U-Head Jacks are made of a “U” shaped steel plate, screw jack.
- These fittings are available in two types (Hollow and solid)
- Adjustable U-Head Jacks are used to provide support for primary beams (traditional timber, steel, H20 beam and aluminum beams).
- Adjustable U-Head Jacks are inserted into the top of the Cuplock standards.
- U Head Screw Jack is a scaffold product that is also used to support the scaffolding structure.
- These are fabricated out of high-grade alloy steel and available in different sizes.

Code	Description	Size (mm)	Weight(KG)
FCF03670H	Adjustable U Head Jack Hollow	OD 38/4mm X 670mm	5.05
FCF03760H	Adjustable U Head Jack Hollow	OD 38/4mm X 760mm	5.82
FCF03860H	Adjustable U Head Jack Hollow	OD 38/4mm X 860mm	6.58
FCF03670S	Adjustable U Head Jack Solid	OD 36mm X 670mm	7.45
FCF03760S	Adjustable U Head Jack Solid	OD 36mm X 760mm	8.15
FCF03860S	Adjustable U Head Jack Solid	OD 36mm X 860mm	8.86

Adjustable Universal Jack

Model No. FCF04

- Adjustable Universal Jacks are made of a screw jack.
- These are available in two types (Hollow and solid)
- Adjustable Universal Jacks are inserted into the top of the Cuplock standards.
- Adjustable Universal Jacks are a method of adjustment of Cuplock structure by the socket base.
- The Universal Jack has an adjustment of approximately 0.5m and is used for both access and support structures to accommodate variations in ground levels.
- For support, the load bearing capacity is of up to 74kN.

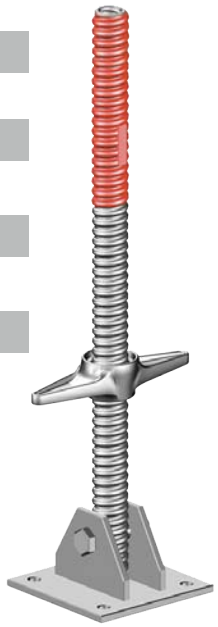
Code	Description	Size (mm)	Weight(KG)
FCF04670H	Adjustable Universal Jack Hollow	OD 38/4mm X 670mm	2.00
FCF04760H	Adjustable Universal Jack Hollow	OD 38/4mm X 760mm	2.25
FCF04860H	Adjustable Universal Jack Hollow	OD 38/4mm X 860mm	2.50
FCF04670S	Adjustable Universal Jack Solid	OD 36mm X 670mm	5.25
FCF04760S	Adjustable Universal Jack Solid	OD 36mm X 760mm	5.85
FCF04860S	Adjustable Universal Jack Solid	OD 36mm X 860mm	6.55

Swivel Adjustable Base Jack

Model No. FCF05

- Swivel Base Jack is a special type of Adjustable screw jack.
- This leveling jack has a swivel base plate, which makes it a great option to use on sloped surfaces.
- Adjustable Swivel Base Jacks are available in two types (Hollow and solid).
- Our Adjustable Base Jacks confirm to **BS 1139, EN 74.**

Code	Description	Size (mm)	Weight(KG)
FCF05670H	Swivel Base Jack Hollow	OD 38/4mm X 670mm	4.54
FCF05760H	Swivel Base Jack Hollow	OD 38/4mm X 760mm	4.85
FCF05860H	Swivel Base Jack Hollow	OD 38/4mm X 860mm	5.20
FCF05670S	Swivel Base Jack Solid	OD 36mm X 670mm	7.00
FCF05760S	Swivel Base Jack Solid	OD 36mm X 760mm	7.65
FCF05860S	Swivel Base Jack Solid	OD 36mm X 860mm	8.36



Fork U-Head Jack

Model No. FCF06

- The adjustable fork head can be inserted into the top of the standard.
- This fitting has a U-Head on top of the adjustable jack.
- This jack is used to support slab formwork and beam formwork in concrete shuttering.
- It is versatile with all formwork beams like wooden beam, aluminum beams and steel beams.

Base Plate

Model No. FCF07

- Scaffold Base Plate is a foot plate for scaffold systems used with Cuplock Scaffolding, Ring-lock Scaffolding, Kwikstage Scaffolding, Frame Scaffolding and Tube & Clamp Scaffolding.
- There are two types of Base Plate: Spigot Base Plate and Socket Base Plate.
- Spigot Base Plate is used to be inserted into the bottom end of the Standard
- Socket Base Plate has a socket where-in the bottom end of the Standard gets inserted
- It also provides a base for the universal jack & also connects the universal jack to drophead.
- Base Plate is also used as support for Cuplock structure in case no height adjustment needed.
- Our Base Plate complies to **EN 74** Standard.
- Base Plate is made of MS plate 150mm x 150mm x 5mm thk, and the spigot is of OD 38mm/3mm thk.

AFFIX manufactures Forged Fittings which confirm to European Standard **EN 74B** and are tested to ensure the highest quality. These Fittings are electroplated for a longer life span. We also manufacture Pressed Scaffolding Fittings.

Double Coupler

Model No. FCF08

A fixed ninety-degree, rigid coupler by Affix, used for connecting two 48.3mm tubes at right angles. This heavy duty fitting is designed for use in all types of scaffolding construction and also in lighting rigs, staging and guard rails.

All the drop forged scaffold fittings are zinc plated for longer life, manufactured to **BS 1139 (Part 2) & EN 74** and are tested to ensure the highest level of quality control. Our drop forged doubles are Class B.

This fitting is also available as a pressed steel fitting.

Suitable Pipe	**48.3mm OD**
Standards	**EN74-B**
Weight	**1.011 Kg**
Finishing	**Zinc Plated**

Swivel Coupler

Model No. FCF09

Forged swivel coupler by Affix, used for connecting two 48.3mm tubes at any angle. This fitting is designed for use in all types of scaffolding construction, most often employed where diagonal bracing is required and also in lighting rigs, staging and guard rails.

All the forged scaffold fittings are zinc plated for longer life. Manufactured to **BS 1139 (Part 2) & EN 74** and are tested to ensure the highest level of quality control.

This fitting is also available as a pressed steel fitting.

Suitable Pipe	**48.3mm OD**
Standards	**EN74-A**
Weight	**1.074 Kg**
Finishing	**Zinc Plated**

Single Coupler

Model No. FCF10

Forged single coupler by Affix, connects two 48.3mm tubes at right angles. This fitting is designed for connecting board's supports (transoms) or putlogs to ledgers in scaffolding and also used in lighting rigs, staging scaffolds. This fitting is not designed for load bearing- use, a double coupler, if that is what you need.

All of our drop forged scaffold fittings are zinc plated for longer life, manufactured to **BS 1139 (Part 2) & EN 74** and tested to ensure the highest level of quality control.

This fitting is also available as a pressed steel fitting.

Suitable Pipe	**48.3mm OD**
Standards	**BS1139**
Weight	**0.626 Kg**
Finishing	**Zinc Plated**

Girder Coupler

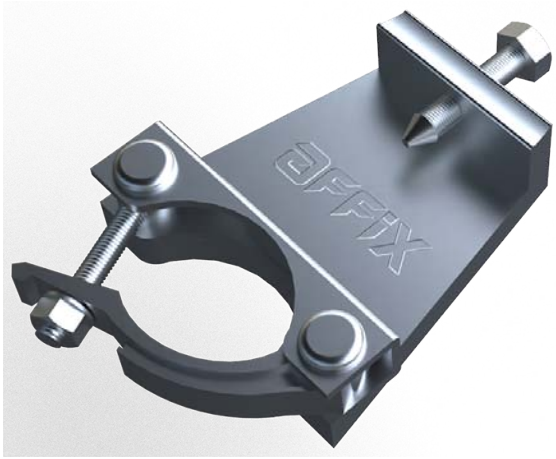
Model No. FCF11

Forged Girder coupler by Affix, this scaffolding fitting is used in pairs to connect a 48.3mm scaffold tube to an "I" beam. This fitting is also known as a **Gravlok coupler**. These fittings are also known as **Beam Clamp.**

All of our drop forged fitting are zinc plated for longer life, manufactured to **BS 1139 (Part 2) & EN 74** and tested to ensure the highest level of quality control.

This fitting is also available as a pressed steel fitting.

Suitable Pipe	**48.3mm OD**
Standards	**BS 1139 & EN 74**
Weight	**1.536 Kg**
Finishing	**Zinc Plated**



Board Retaining Coupler

Model No. FCF12

Board Retaining coupler by Affix, used for securing scaffolding boards to a platform or holding toe boards in place on a deck. This fitting is designed for use in all types of scaffolding applications where scaffold boards need to be secured.

All of our scaffolding fitting is zinc plated for longer life, manufactured to **BS 1139 (Part 2) & EN 74** and tested to ensure the highest level of quality control.

Suitable Pipe	**48.3mm OD**
Standards	**BS 1139 & EN 74**
Weight	**0.556 Kg**
Finishing	**Zinc Plated**

Pressed Sleeve Coupler

Model No. FCF13

Pressed sleeve coupler by Affix, used for connecting two 48.3mm tubes end to end. This fitting is designed for use in all types of scaffolding construction and also in lighting rigs, staging and guard rails.

All of our pressed scaffolding fittings are zinc plated for longer life, manufactured to European Standard **EN 74B** and tested to ensure the highest levels of quality control. Our pressed sleeves are Class B.

Suitable Pipe	**48.3mm OD**
Standards	**EN74-B**
Weight	**0.994 Kg**
Finishing	**Zinc Plated**

Ladder Clamp

Model No. FCF14

These clamps are an essential part of any safe ladder access on the scaffolding structure. Ladder Clamp is one of scaffold fittings used mostly in tube coupler system. One end is connected with scaffold ladders while the other end fixes to the scaffold tube OD48mm.

Ladder clamps also ensure safe and easy transportation of ladders on a motor vehicle by locking them down tightly and protecting against cross winds.

Affix also produces drop forged type of ladder clamps.

Suitable Pipe	**48.3mm OD**
Standards	**BS-1139**
Weight	**0.656 Kg**
Finishing	**Zinc Plated**

Toe Board Clamp

Model No. FCF15

AFFIX scaffold Toe Board Clamps are pressed steel type scaffold couplers. It confirms to **EN 74** standard. It protects the scaffold toe boards from all the 4 sides from accidental uplift in construction.

It can be used to fix scaffold toe boards in thickness from 25mm to 45mm.

Suitable Pipe	**48.3mm OD**
Weight	**0.500 Kg**
Finishing	**Zinc Plated**

Universal Clamps

Model No. FCF16

These Universal Clamps are used to connect aluminium beams to walers. They are simple in design, prevent rotation and ensure positive connection.

Suitable Pipe	**48.3mm OD**
Weight	**0.350 Kg**
Finishing	**Zinc Plated**

Wing Nut
Model No. FA01

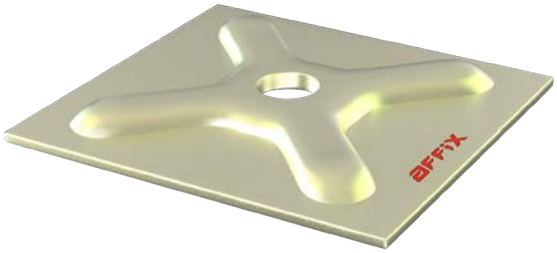
Wing Nut is a kind of important accessories in pouring shear wall project. They are manufactured from ductile cast iron. Together with the Tie Rod, they act as wall tie system, to fasten the formwork panels tightly during concrete pouring process. The y are used in conjunction with the Waler Plate. They can also be used in other applications for fasten purpose.

Material	**Ductile Cast Iron**
Tensile strength	**180kN/ 320kN**
Ideal for	**15/17mm or 20/22mm Tie rods.**
Weight	**320gm/620gm**

Waller Plate
Model No. FA02

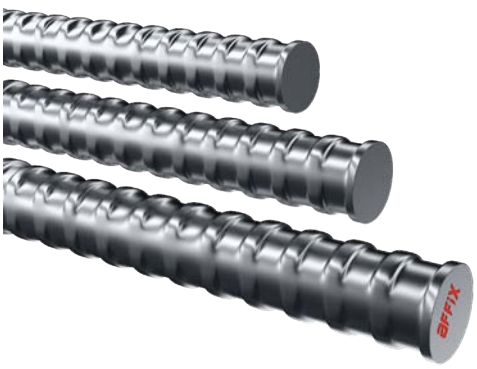
Pressed square Waler Plates are used together with formwork Tie Rods to protect the formwork system. Waler plates are used for Tie Rods in conjunction with a Wing Nut or a hex nut for load transfer. The embossing of the plate increases the rigidity of the plate. Load capacity depends on the contract area, the admissible bearing pressure and the threaded Tie Rod.

Specification	**120*120*8/10mm**
Finish	**Galvanized**



Tie Rods
Model No. FA03

AFFIX produces all types of concrete Tie Rods, including discontinuous threaded tie rods and continuous threaded rods. These are used popularly for concrete formwork & shuttering include wall formwork, column formwork, slab formwork, beam formwork, bridge formwork, etc.
The widely used sizes of Tie Rods are 15mm Dia, 16mm Dia, and 20mm Dia. However, we can produce sizes as per the requirement from 6mm Dia to 32mm Dia.



Water Barrier Nut

Model No. FA04

Water Barrier Nuts are used in water retaining structures. They are casted into the concrete wall between two separate tie bars, to prevent water seeping alongside the thread bar. After pouring concrete, tie rods are removed, the water barrier remains in concrete.
These are made out of ductile cast iron/ galvanized steel.

Galvanized Pipe

Model No. FCA01

- The Galvanized Pipe confirms to **EN 39**, previously **EN 1139.**
- It has a specified outside diameter of 48.3mm and specified wall thickness of 3.2mm or4.0mm.
- Galvanized Pipe is used in Cuplock Scaffolding for cross support.
- With the use of GI Pipes, Tube Scaffolding system can also be erected.
- Available in various sizes

Code	Description	Size (mm)	Weight(KG)
FCA0110	GI Pipe 1.0 Mtr	OD 48.3mm X 3.2mm THK	3.43
FCA0120	GI Pipe 2.0 Mtr	OD 48.3mm X 3.2mm THK	6.86
FCA0130	GI Pipe 3.0 Mtr	OD 48.3mm X 3.2mm THK	10.29
FCA0140	GI Pipe 4.0 Mtr	OD 48.3mm X 3.2mm THK	13.72
FCA0150	GI Pipe 5.0 Mtr	OD 48.3mm X 3.2mm THK	17.15
FCA0160	GI Pipe 6.0 Mtr	OD 48.3mm X 3.2mm THK	20.58

Steel Planks

Model No. FCA02

- The Scaffold steel plank is an important part of the scaffolding. It is used as a walkway in the scaffolding.
- The use of steel scaffold planks avoids the disadvantage of heavy water absorption and extreme slippery conditions caused by rain on wooden scaffold planks.
- It is lightweight and with high strength, easy to erect with BRC clamp, and highly reusable. Both galvanized and ungalvanized variants are available as per the requirement.
- The steel planks come with stamping holes, designed to resist skidding for workers.
- Also available is the Scaffold board with a hook of size of 1900mm for H-Frame Scaffolding.
- Steel Plank lengths are available in 4 lengths suitable for Cuplock Scaffolding.
- If required, customized sizes for steel planks can be easily made available as per provided specifications.
- The Steel planks comply with **EN 12811 & EN1004.**

Code	Description	Thickness (mm)	Size	Weight (Kg)
FCA0210	Steel Planks	1mm,1.5mm,1.8mm & 2mm	38mm X 225mm X 1m	4.00
FCA0220	Steel Planks	1mm,1.5mm,1.8mm & 2mm	38mm X 225mm X 2m	8.00
FCA0230	Steel Planks	1mm,1.5mm,1.8mm & 2mm	38mm X 225mm X 3m	12.00
FCA0240	Steel Planks	1mm,1.5mm,1.8mm & 2mm	38mm X 225mm X 4m	16.00

***Note* : Weights with 1.8 mm thk steel sheet**

Wooden Planks

Model No. FCA03

- The Wooden Plank is strong made out of structural timber. It is ready to use for building scaffolding and structural work or creating a raised flower bed.
- The Safety Load Capacity is tested as per **BS 2482 and OSHA** regulations.
- For safety, please ensure to completely cover the area between front and rear vertical supports or the rear guard rail. Also, they must be secured against any movement in any direction (including uplift) with the help of BRC.

Code	Description	Thickness (mm)	Size
FCA0310	Wooden Planks	38mm X 225mm X 1m	3.60
FCA0320	Wooden Planks	38mm X 225mm X 1.9m	7.20
FCA0330	Wooden Planks	38mm X 225mm X 2.9m	10.80
FCA0340	Wooden Planks	38mm X 225mm X 3.9m	14.40

Aluminium Beams

Model No. FCA04

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

1. Single Web Light

Technical Specifications

- Permissible bending moment (M) = 0.77 (t.m)
- Permissible shear force (t) = 4.00 t.
- Section Modulus (z) = 51.70 cm3.
- Geometrical moment of inertia (I) = 389.70cm4.

Code	Description	Size (mm)	Weight (Kg)
FCA0410	Aluminium Beam Single Web	1000	3.20
FCA0420	Aluminium Beam Single Web	2000	6.25
FCA0430	Aluminium Beam Single Web	3000	9.78
FCA0440	Aluminium Beam Single Web	4000	13.04
FCA0450	Aluminium Beam Single Web	5000	16.30
FCA0460	Aluminium Beam Single Web	6000	19.20

2. Single Web Heavy

Model No. FCA05

Technical Specifications

- Permissible bending moment (M) = 0.86 (t.m)
- Permissible shear force (t) = 4.70 t.
- Section Modulus (z) = 57.89 cm3.
- Geometrical moment of inertia (I) = 469.66cm4.

Code	Description	Size (mm)	Weight (Kg)
FCA0510	Aluminium Beam Heavy	1000	4.25
FCA0520	Aluminium Beam Heavy	2000	8.50
FCA0530	Aluminium Beam Heavy	3000	12.75
FCA0540	Aluminium Beam Heavy	4000	17.00
FCA0550	Aluminium Beam Heavy	5000	21.25
FCA0560	Aluminium Beam Heavy	6000	25.50

3. Double Web Heavy

Model No. FCA06

Technical Specifications

- Permissible bending moment (M) = 0.98 (t.m)
- Permissible shear force (t) = 8.00 t.
- Section Modulus (z) = 65.82 cm3.
- Geometrical moment of inertia (I) = 460.7cm4.

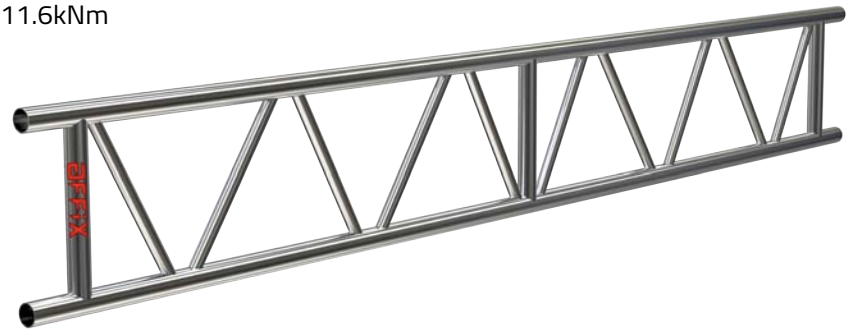
Code	Description	Size (mm)	Weight (Kg)
FCA0610	Aluminium Beam Double Web	1000	4.49
FCA0620	Aluminium Beam Double Web	2000	8.98
FCA0630	Aluminium Beam Double Web	3000	13.47
FCA0640	Aluminium Beam Double Web	4000	17.96
FCA0650	Aluminium Beam Double Web	5000	22.45
FCA0660	Aluminium Beam Double Web	6000	26.94

Aluminium Lattice beam

Model No. FCA07

- We manufacture 2 types of 450mm Aluminium Lattice Beams. One is made of a 6082 grade Alloy and the other is 6062 grade Alloy for lattice Beams (girders).
- Lattice beams have parallel longitudinal tubes united by diagonal tubes which give a lattice effect.
- Lattice beams are highly versatile multipurpose scaffolding beams.
- All lattice beams are designed with top and bottom chords, and vertical filler bars with an external diameter of 48.3mm, making them suitable for connecting most standard scaffolding couplers.
- Lattice beam lengths ranging from 2 - 8m, and heights from 450mm and 750mm.
- The Lattice beam is a lower weight alternative with comparable capacity, and often the preferred solution for ease of handling.

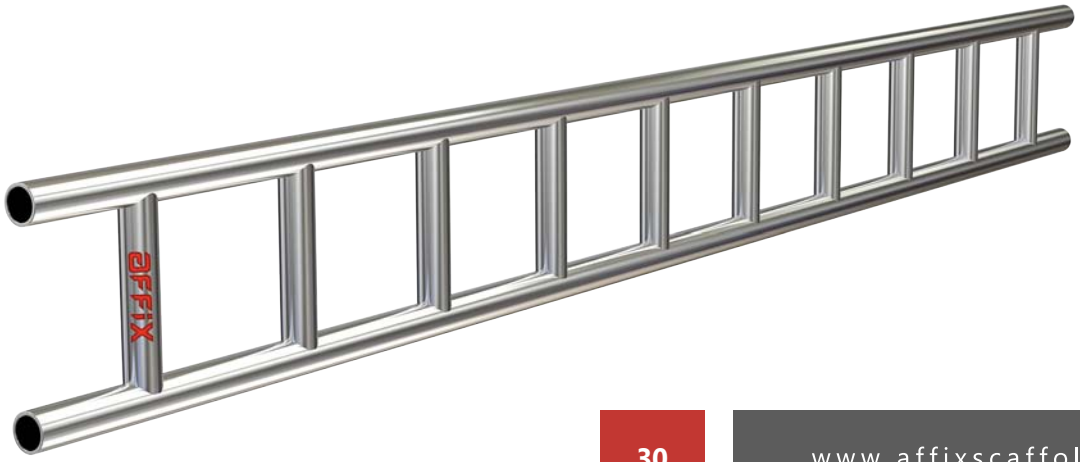
Permissible Moment -20.2kNm
Permissible Shear -11.6kNm



Ladder Beam

Model No. FCA08

- Ladder Beams are used where clear span is required in scaffolding or where greater strength is required in the horizontal members.
- Available in lengths up to 6m.
- Ladder Beams are made of high tensile steel tubes of sizes 48.3 OD and 3.2mm wall thickness conforming to.
- All Ladder Beam rungs are saddle cut to get the maximum welding length and thereby increasing the overall strength in bending and shear.
- The steel ladder beams are tested according to **BS 1139, EN 12811** standard.



Steel Ladder

Model No. FCA09

- Steel Ladders are made for a clear span between scaffolds.
- It is manufactured from high tensile steel 25mm X 50mm rectangular tube with wall thickness of 1.5mm to 3mm and the saddles are welded at each joint for better safety as per **EN 131.**
- Steel adders are available in painted or galvanized finish and in different lengths and weights.
- All ladders are fitted with square tubular, non-slip rungs.
- Heavy duty, anti-skid and durable rubber feet on each ladder.
- Maximum Static Load: 150 Kg & Safe Working Load: 110 Kg.
- The width of ladders is 350mm, rungs dimension is 25mm square tube and the distance between the rungs is 270mm.

Code	Length	No. Of Rungs	Weight (Kg)
FCA0920	2 Mtr	20	35.40
FCA0930	3 Mtr	17	25.65
FCA0940	4 Mtr	13	19.60
FCA0950	5 Mtr	10	14.80
FCA0960	6 Mtr	7	9.20

H20 Beam

Model No. FCA10

- The H20 Formwork Timber Beam is a solid I-beam used for concrete formwork construction.
- The height of the beam is 200mm and available in different standard lengths.
- The webs are made of 3 ply laminated solid wood panels ensuring use in all climate zones.
- The chords are made of superior quality, smoothly surfaced and slightly chamfered.
- H20 Beams are used as primary and secondary beams for Cuplock Falsework applications.

Technical Specification:

- Permissible bending moment (M) = 0.50 t.m)
- Permissible shear force (Q) = 1.10 t
- Section modulus (z)= 461 cm^3
- Geometrical moment of inertia (I)= 4613 cm^4

Code	Description	Size (mm)	Weight (Kg)
FCA10190	H20 Beams	1.90 Mtr	8.74
FCA10245	H20 Beams	2.45 Mtr	11.27
FCA10290	H20 Beams	2.90 Mtr	13.34
FCA10390	H20 Beams	3.90 Mtr	17.94
FCA10490	H20 Beams	4.90 Mtr	22.54
FCA10590	H20 Beams	5.90 Mtr	27.14

Castor Wheels

Model No. FCA11

- The Castor Wheels provide movements to the Cuplock Towers from different places.
- The Castor wheel complies with **EN 1004.**
- This is used when Cuplock is erected as a mobile tower. The shaft of the wheel fits into the base of the Cuplock standard and is secured with a hexagonal head bolt.
- These are heavy duty wheels exclusively used with twist lock.

Code	Description	Size (Inches)	Load Capacity (Kg)
FCA11540	Castor Wheel	8"	540
FCA11820	Castor Wheel Heavy Duty	8"	820

Staircase Unit

Model No. FCA12

- The Cuplock Staircase Tower is mainly built up of standard Cuplock to improve site access and more effective movement of persons and rapid erection due to the small number of components.
- The Staircase unit is an integral part of the Cuplock Staircase Tower.

Height	**1.500 Mtr**
Length	**2.050 Mtr**
Width	**0.580 Mtr**
Riser	**0.215 Mtr**

Prop Jacks

Model No. FS01

- Steel Prop Jacks are designed to support a range of floors and temporary beams. These props provide an ideal and economical method of support for all kinds of frameworks, slabs, columns, beams and walls.
- This different part of the Jack is base plate, outer tube, inner tube, swivel nut and G Pin. Its structure is simple and flexible, easy to assemble and disassemble.
- There are 2 types of Prop Jacks: **Light Duty and Heavy Duty.**
- The props are manufactured from an outer tube of 60.3mm OD and inner tube of 48.3mm OD.
- The base plates used are of the dimension 150 x 150 x 6mm thk.
- Props are designed to take 20kN and 30kN at extended heights.
- For height adjustment, the inner tube of the Prop Jack has 14mm dia holes, 125mm center to center.

Light Duty: Tube OD 60mm , Tube ID 48.3mm , Tube thickness 2.0mm.

Code	Description	Closed Height (mm)	Extn. Height (mm)	Inner Pipe Length (mm)	Outer Pipe Length (mm)	Net Weight Kg (Painted)
FS0139LD	Prop Jack Light Duty 3.9 Mtr	2500	3900	2500	1700	12.80
FS0150LD	Prop Jack Light Duty 5 Mtr	3000	5000	3000	2350	14.20

Heavy Duty: Tube OD 60mm ; Tube ID 48.3mm ; Tube thickness 3.2mm.

Code	Description	Closed Height (mm)	Extn. Height (mm)	Inner Pipe Length (mm)	Outer Pipe Length (mm)	Net Weight Kg (Painted)
FS0139HD	Prop Jack Light Duty 3.9 Mtr	2500	3900	2500	1700	17.00
FS0150HD	Prop Jack Light Duty 5 Mtr	3000	5000	3000	2350	20.80

Push Pull Prop

Model No. FS02

- The Push Pull Prop consists of two telescopically slidable pipes.
- The displacement can be adjusted by means of a threaded ring nut and a pin inserted into the holes of the inner pipe
- This structure enables it to perform two actions, the regular pushing action (like normal props do) and the pulling action.
- Push Pull Props are made from 60mm OD x 3.2mm wall thickness and inner tube of 48.3mm OD x 3.2mm wall thickness steel tubes.
- This Prop is used for temporary and safe stabilization of structures during the casting step, whether formworks, wooden panels, or prefabricated elements of various types.
- Formwork shoring prop is mainly made up of base plate, outer tube, inner tube, swivel nut, G Pin. It's structure is simple and flexible, easy to assemble and disassemble.
- The push-pull prop, with swivel end plates, can bear both vertical, diagonal and horizontal loads.
- Due to the high strength capability, the push-pull props are used in construction of houses and high-rise buildings.
- Push-Pull Props are designed for use wherever an adjustable inclined strut is required.
- These Props are Available in a wide range of sizes.

Outer Tube OD 60mm; Inner Tube OD 48.3mm; Tube thickness 3.2mm.

Code	Description	Closed Height (mm)	Extn. Height (mm)	Inner Pipe Length (mm)	Outer Pipe Length (mm)	Net Weight Kg (Painted)
FS0239	Push Pull Jack 3.90 Mtr	2500	3900	2500	1700	17.60

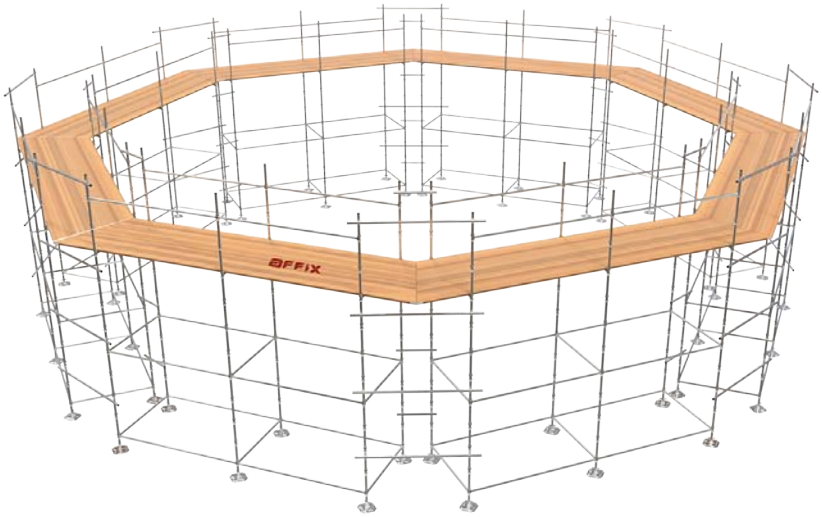
H Frames

Model No. FF01

- H-frames scaffolds are provided with special lattices to enable safe & easy access for workers and are interconnected by scissor type cross-braces, which are secured to the H-frames by specially designed pins, welded onto the frames and locked in position.
- Standard Light Duty 'H' frames are manufactured out of 42 mm OD pipes for the main frame and 25 OD pipes for the lattice.
- Boards or Steel Planks are placed across the completed frame scaffolding sections. The frame system is divided into H frame and walkthrough frame. Mainly composed of mainframe, cross brace, catwalk, and base jack.
- Excellent rigidity due to welded construction & cross-bracings
- No tools required for erection.
- Quick & easy to erect. Erection can be done even by unskilled labor.
- Excellent for use as scaffold tower around concrete hoist ideal for use as access scaffolding.
- It can be used not only for internal and external scaffolding in construction but also for supporting bridges or simple moving scaffolding.
- Main Frame Size: Width 1219mm X Height 2000mm.
- 1 Set includes 2 H-Frame (12.8 Kg), 2 Cross Braces (3.2 Kg) & 4 Spigot Pins (½ Kg). (Total Weight 34 Kg Approx.)

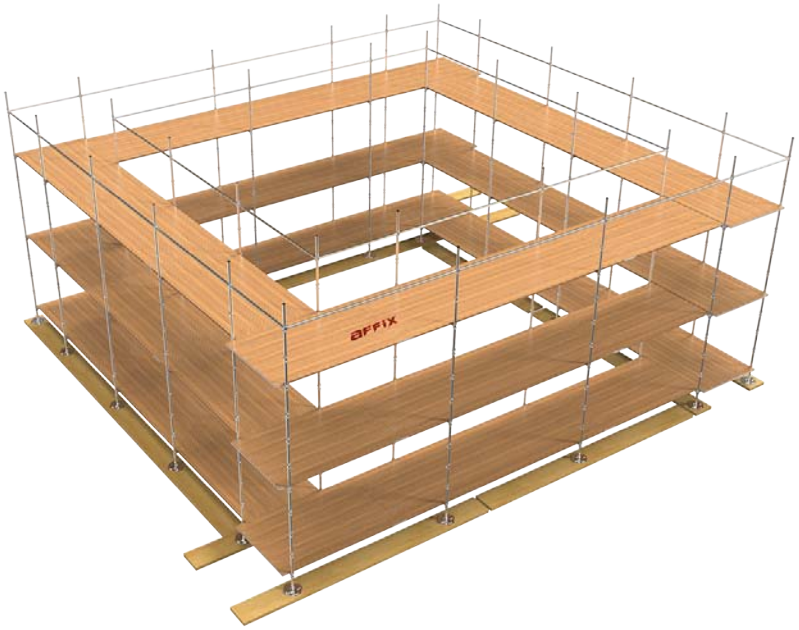
Cuplock Scaffolding: Circular Application

- Cuplock system is used in Minaret, chimneys and tanks as circular erection.
- In circular assembly supporting towers are not required, even if the scaffolding exceeds 10 m height.
- Cuplock system should be connected to each other using pipes, so that it will be in circular shape.



Cuplock Scaffolding: Square Or Rectangle Application

- Cuplock system in rectangular or square application is also known as facade scaffolding.
- This scaffolding we are using around the building which can be used with anchoring to the building or with supporting tower.



Cuplock Scaffolding: Staircase Tower

- The scaffolding staircase tower is used internally also externally of the building.
- This staircase towers are commonly used outside the building to get easy access at each floor.
- The towers are usually erected and connected with pipes from inside the building.

Cuplock Scaffolding: Corner Application

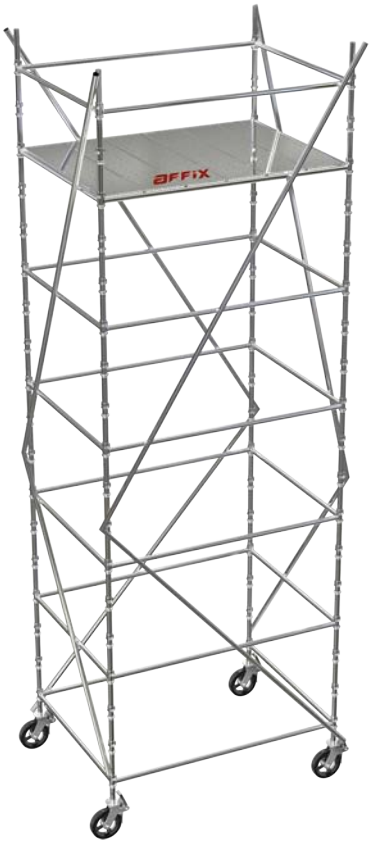
- In corners mainly the scaffolding system is assembled by connecting with pipes and couplers.
- The corners should be connected properly to get stability.

Outside Corner Application

Inside Corner Application

Cuplock Scaffolding: Mobile Application

- In some specific scenarios, the Cuplock tower can be fitted with castor wheel to make it mobile.
- Precaution has to be taken to use the castor wheels for Cuplock system and NOT of any other system.
- This mobile tower can be generally used for outside or inside purpose.



COMPLIANCE

At **AFFIX**, our certified Quality Management System guarantees products are consistently rated higher in performance and value by the industry. This has been possible only because of our stringent quality control procedures. This assures our customers that our products have been inspected and/or tested to comply with strict **EN standards** for different products.

AFFIX is **EN 1004-1:2020** certified for its **Mobile Scaffolding** range of products. This Quality standard defines what materials, dimensions, design loads, safety and performance requirements mobile access towers should confirm to.


Statement of Confirmation

EN-1004-1:2020

AFFIX is **BS 1139-6:2014** certified for its **Cantilever, Bridgeway and Stair Tower** range of products. This Quality standard specifies requirements for the structural design of prefabricated tower scaffolds utilizing components from mobile access and working towers specified in **EN 1004** but in configurations that are outside of the scope of that standard.


Statement of Confirmation

BS-1139-6:2014

AFFIX is **BS 8620:2016** certified for its **Podium Steps** range of products. This Quality standard specifies requirements for an Low Level Work Platform with one working platform with side protection, for use by one person, with a maximum working platform height not greater than 2.5 m. The maximum working load of the LLWP is 150 kg.


Statement of Confirmation

BS-8620:2016

COMPLIANCE

AFFIX is **EN 131** certified for its **Portable Steps and Ladders** range of products. This Quality standard is a European committee for standardisation (CEN) harmonised standard for portable steps and ladders, manufactured from metal and certain other materials such as GRP.


Statement of Confirmation

AFFIX is **EN 74** certified for it's **Couplers** range of products. This Quality standard applies to scaffolding couplers only. It is used mostly for Double couplers, Swivel couplers and Sleeve couplers. This standard defines the requirement on Slip, Distortion and Other Characters to ensure safety of the product.

AFFIX is **EN 12810-1:2003 and EN 12811-1:2003** certified for it's **Cup-lock Scaffolding Components** range of products. These Quality standards specifies the performance requirements, the general requirements for the structural design and assessment of prefabricated facade scaffold system and the methods of structural and general design for access and working scaffolds.

COMPLIANCE

AFFIX is a **Manufacturing Member of PASMA** and the. This association is the recognised body and authority for mobile access towers. PASMA advances safety, standards and best practices across a wide range of sectors and represents the interests of its members in the UK, South Africa, South East Asia and the Middle East. We feel privileged to be associated with PASMA and helping them to advance safety and standards in the mobile access tower industry

AFFIX is also a **Manufacturing Member of The Ladder Association** and the member category is "Manufacturer; Supplier". We feel privileged to be associated with The Ladder Association and helping to progress safety and best practice step by step. As a member of the association, AFFIX is not only supposed to demonstrate compliance with ladder safety standards but we are also expected to provide inputs into the creation of those standards.

AFFIX is **ISO 9001:2015** certified. These quality management standards, maintained by the International Organization of Standardization(ISO), provides a number of business process requirements for consistent product manufacturing and delivery to meet customer's expectations.

AFFIX

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