

FrameMaster
50 / 60
System



FrameMaster 50 / 60 System

USER INFORMATION



**Your Formwork Solution Specialist.
Design & Fabrication**

☎ Ph:(02)9426 9700

✉ info@fowlerformwork.com.au | www.fowlerformwork.com.au

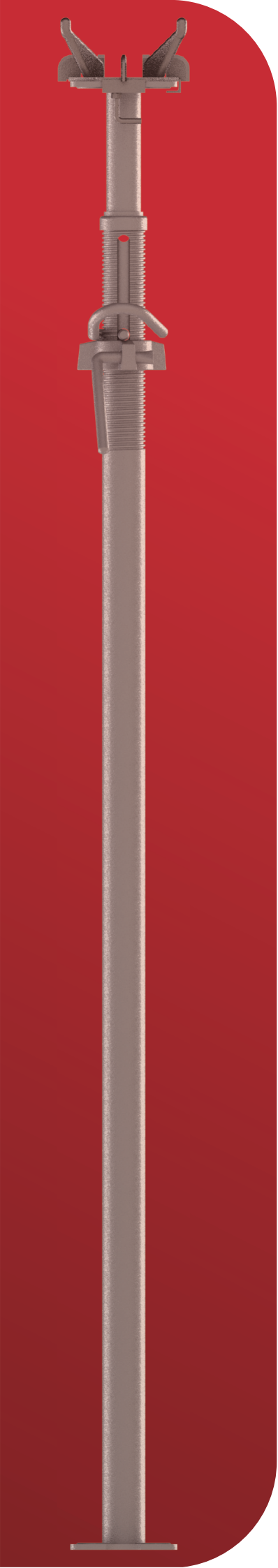
1333 The Horsley Drive · PO Box 6481
Wetherill Park NSW 2164 · ABN 11 475 492 079

ScafworX Investments Pty Ltd atf ScafworX
Unit Trust t/a Fowler Sales and Hire



FOWLER
Hoists • Formwork • Platforms





Features

Bringing conventional frames into the modern world of construction.

The FrameMaster 50/60 system enhances the safe use of formwork frames. The solution provides captive fall protection to eliminate the fall of persons working at height. The AU, US & UK Patent pending product & method of work provides a robust and safe means to comply with Work Safe Codes of Practice. It is engineered and certified to AS 3610.2:2020.

Unlock potential of formwork frames with our FrameMaster system and accessories. The game-changer for the formwork industry. Experience versatility as you seamlessly integrate your conventional frame systems to suit all structures, including high strutting slabs whilst meeting all current SafeWork requirements. Reduce the hire costs and the expenses of hiring scaffold crews to assemble your falsework systems. Maximise the utilisation of your formwork frames, leverage your team's skill set, and then smoothly undertake your projects.

Advantages

The system can be used as

- High strutting falsework system with conventional formwork or aluminium panel formwork
- May provide safe access for other trades
- Prop to panel system for low strutting slabs
- Typical low strutting falsework system with conventional timbers or Aluminium panels

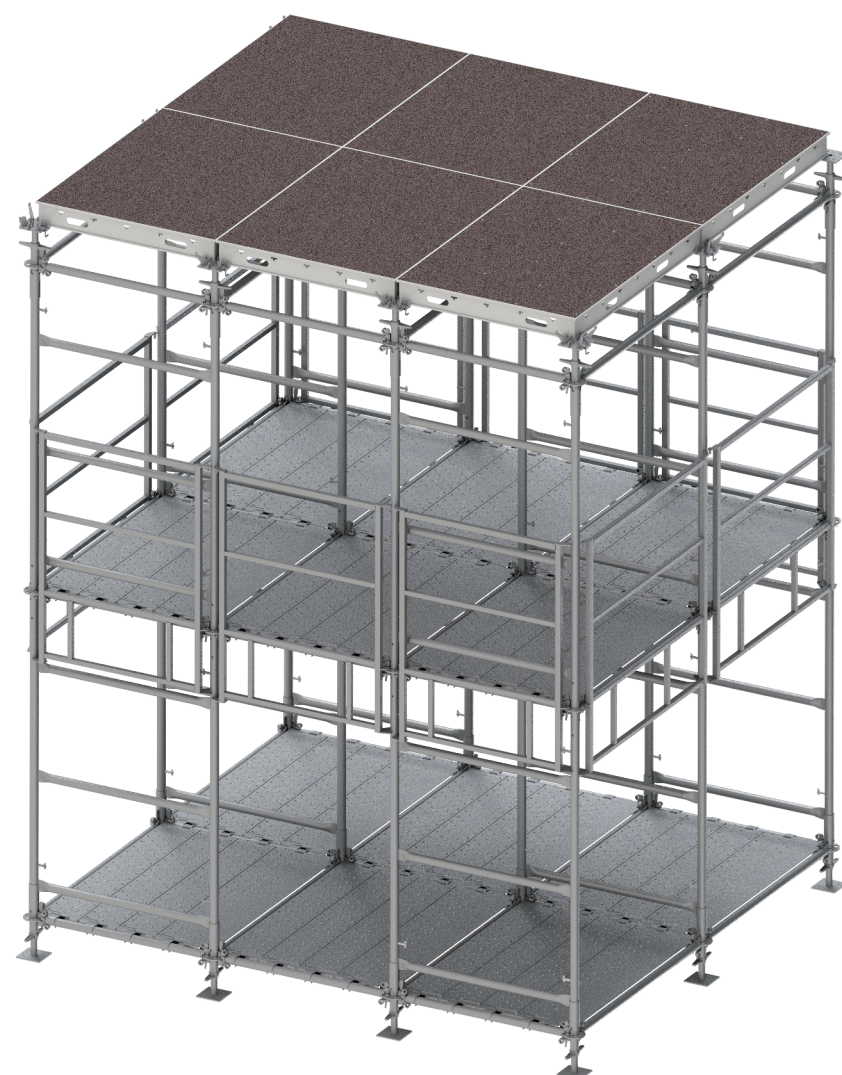
Safety – Complies with SafeWork Code of Practice.

Designed to enhance formwork frame systems, providing all required safety features with comprehensive edge protection, removing the risk of falls to people and falling material from height.

Accessibility and Efficiency

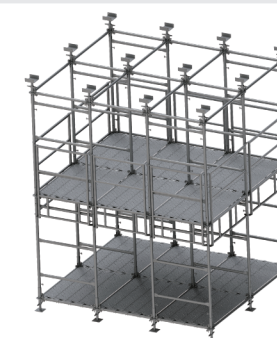
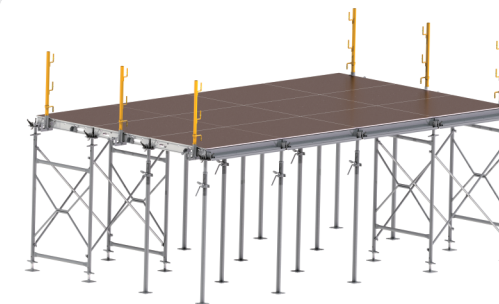
We understand the importance of seamless workflow on the construction site. That's why FrameMaster comes equipped with construction stairs, standards, hop-ups and large working decks ensuring its suitability to project productivity and efficiency.

FrameMaster 50 / 60 System



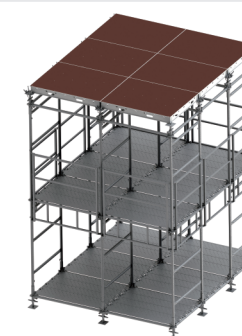
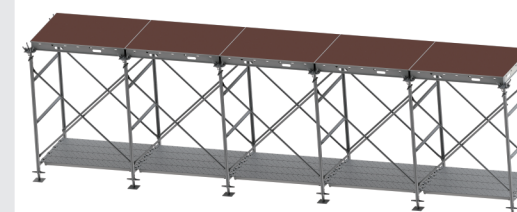
Enables use of conventional frames as:

Prop to panel system



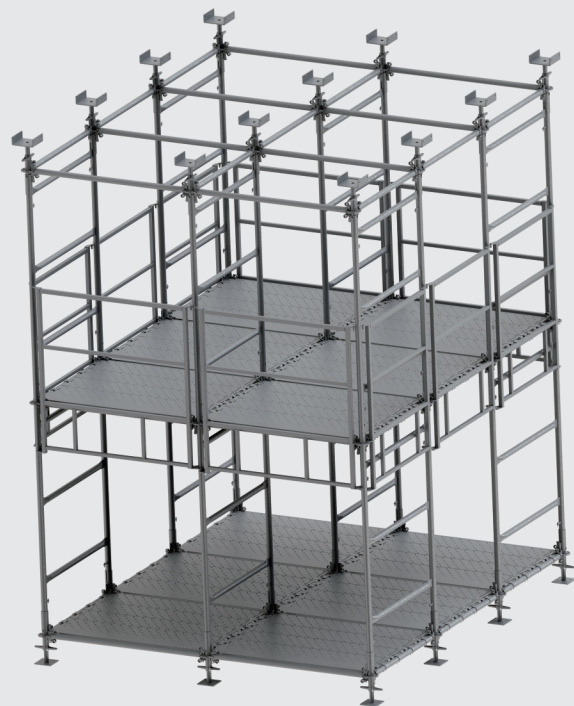
High strutting
falsework system

Falsework &
Formwork System

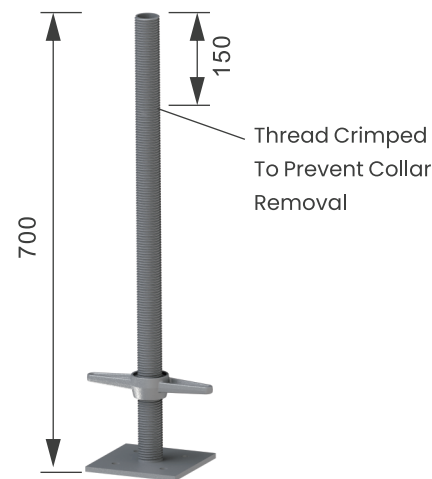


High Strutting Falsework &
Formwork System

Overview and Description of System Components

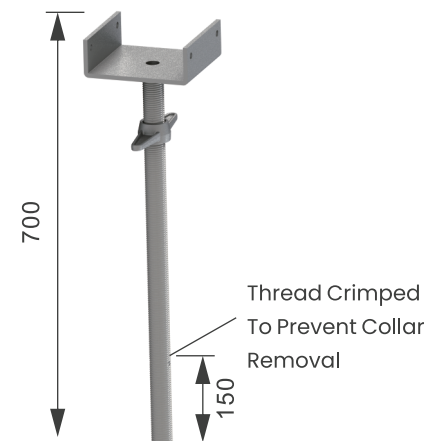


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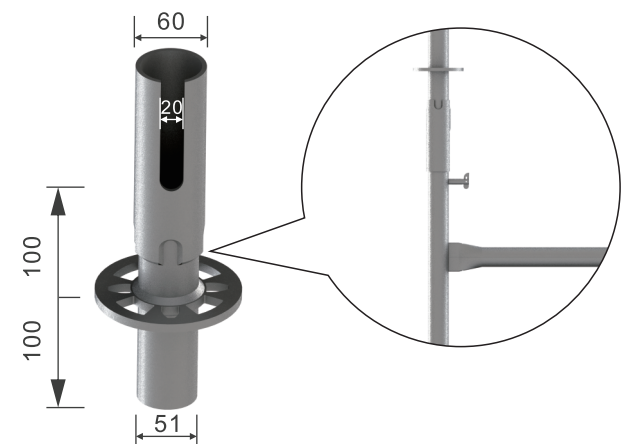


DESCRIPTION	Jack Base
WEIGHT(kg)	4.2

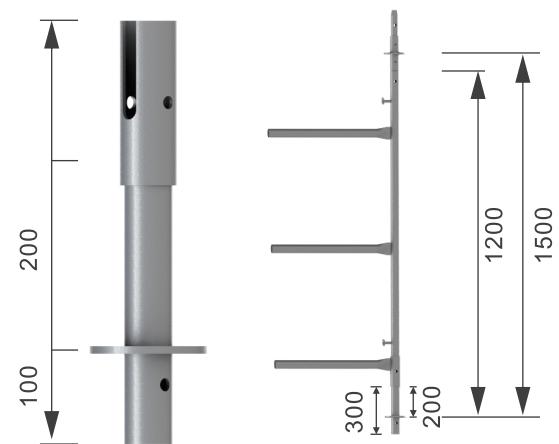
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DESCRIPTION	U - Head
WEIGHT(kg)	6.4

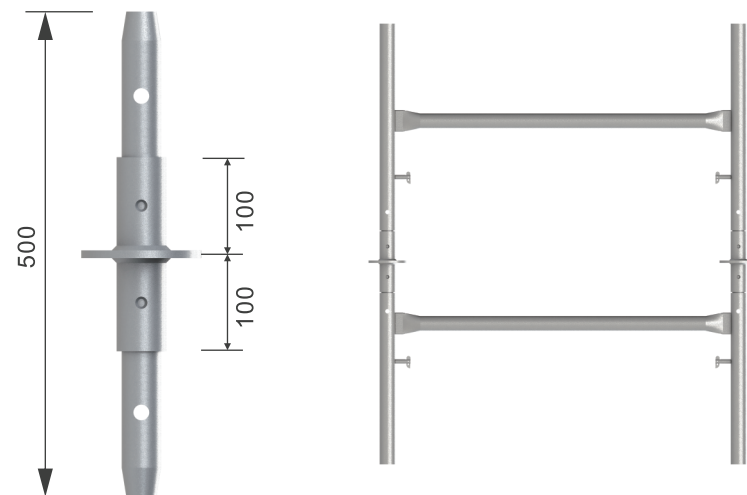


DESCRIPTION	Starter Collar
WEIGHT(kg)	2.2

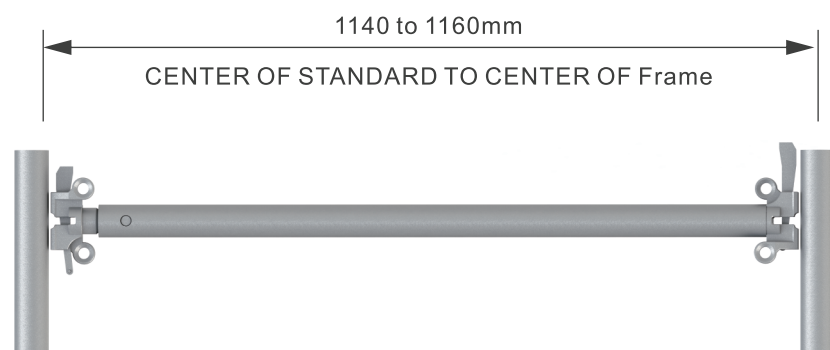


DESCRIPTION	XL 300mm Starter Collar
WEIGHT(kg)	2.6

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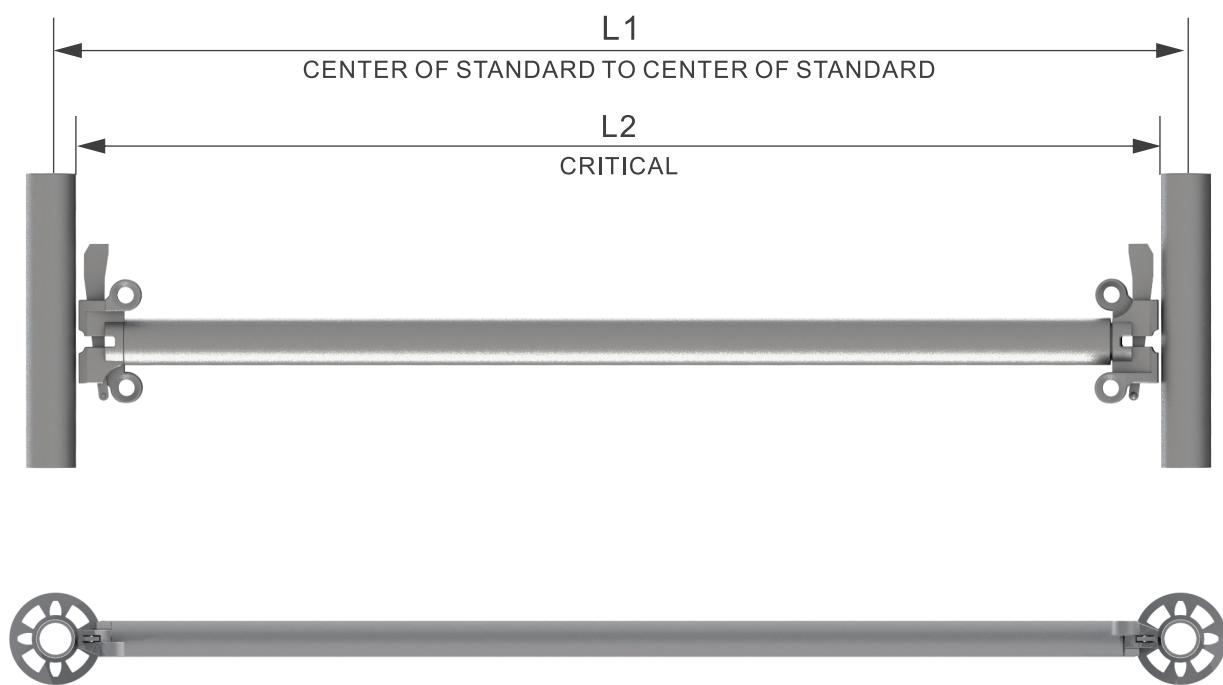
DESCRIPTION	Intermediate Spigot
WEIGHT(kg)	3.8



DESCRIPTION	1150mm Adjustable Ledger
WEIGHT(kg)	5.5

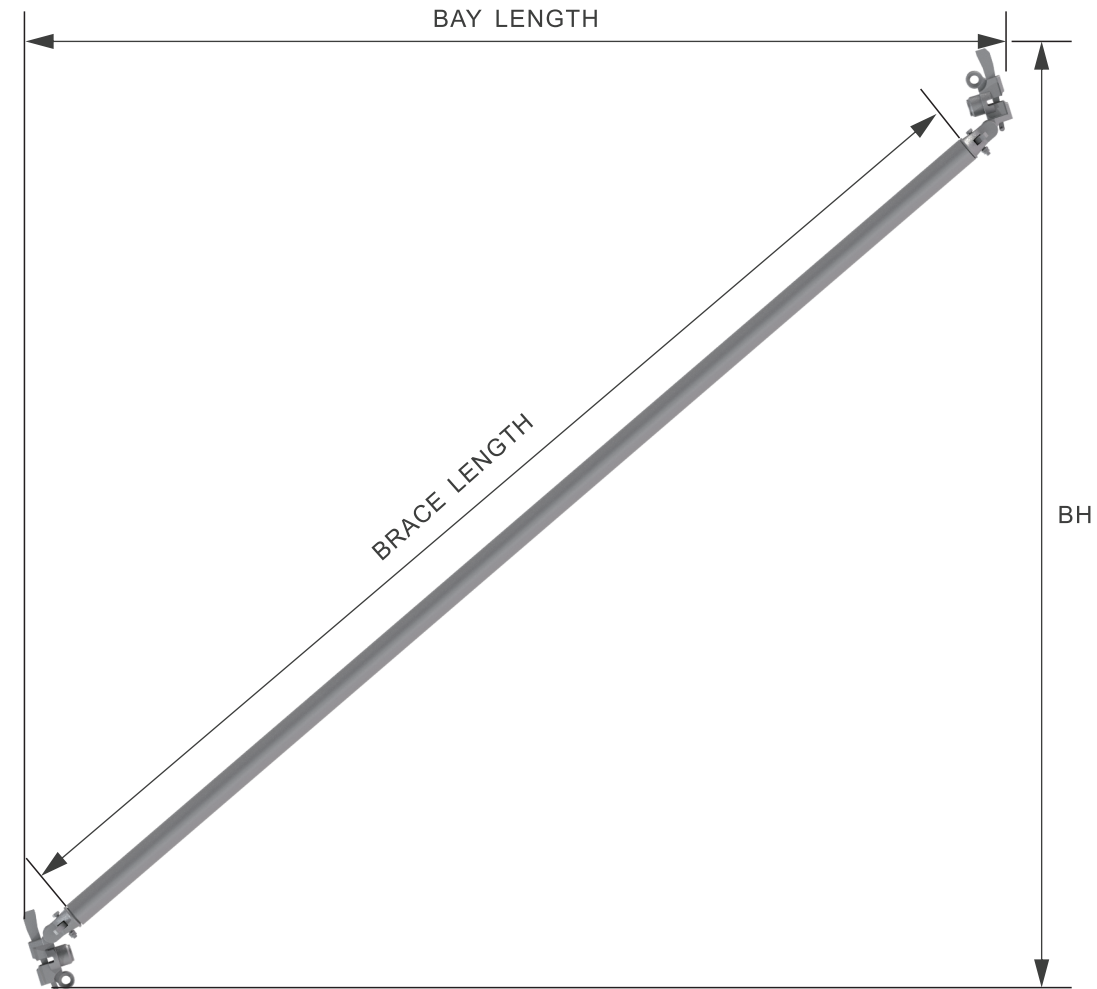
Adjustable ledgers are only used under frame

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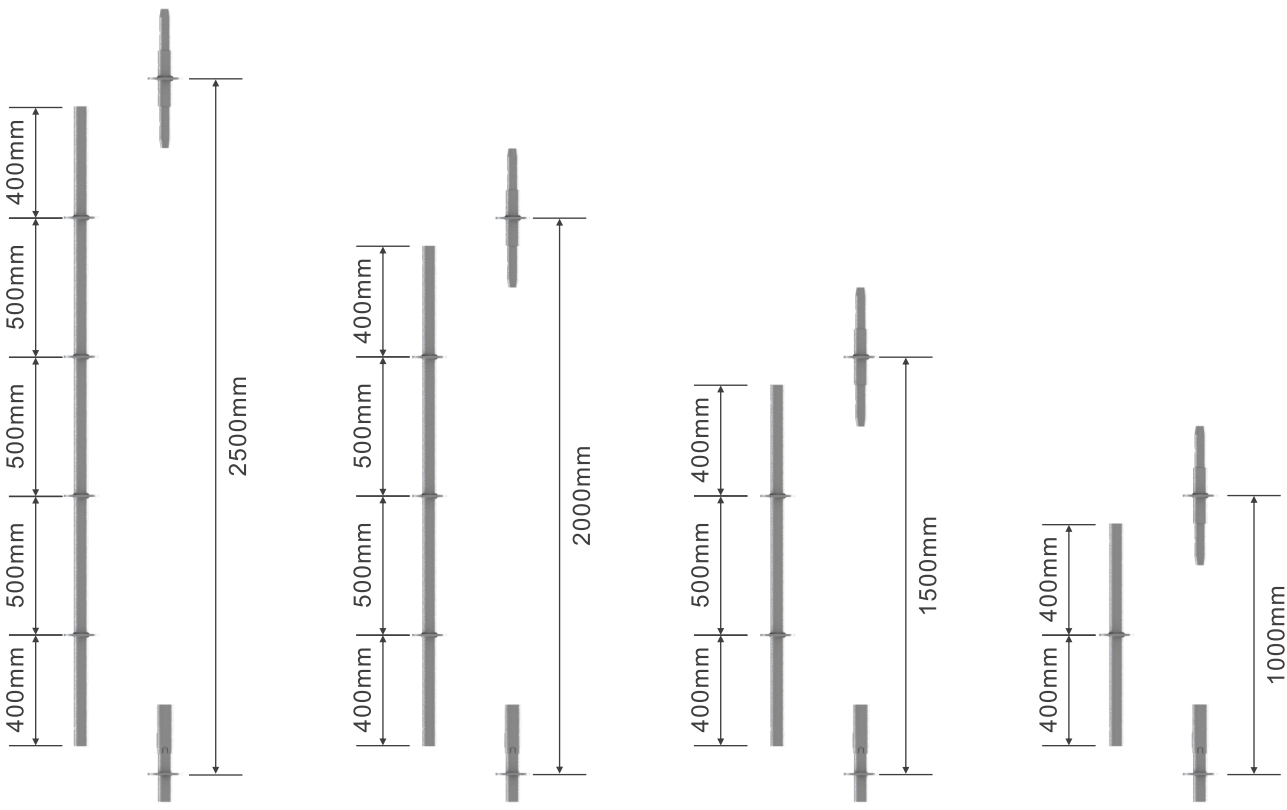
DESCRIPTION	L1	L2	WEIGHT(kg)
290mm Ledger	290	239	2.4
519mm Ledger	519	469	3.2
900mm Ledger	900	849	4.4
1150mm Ledger	1150	1099	5.2
1500mm Ledger	1500	1449	6.4

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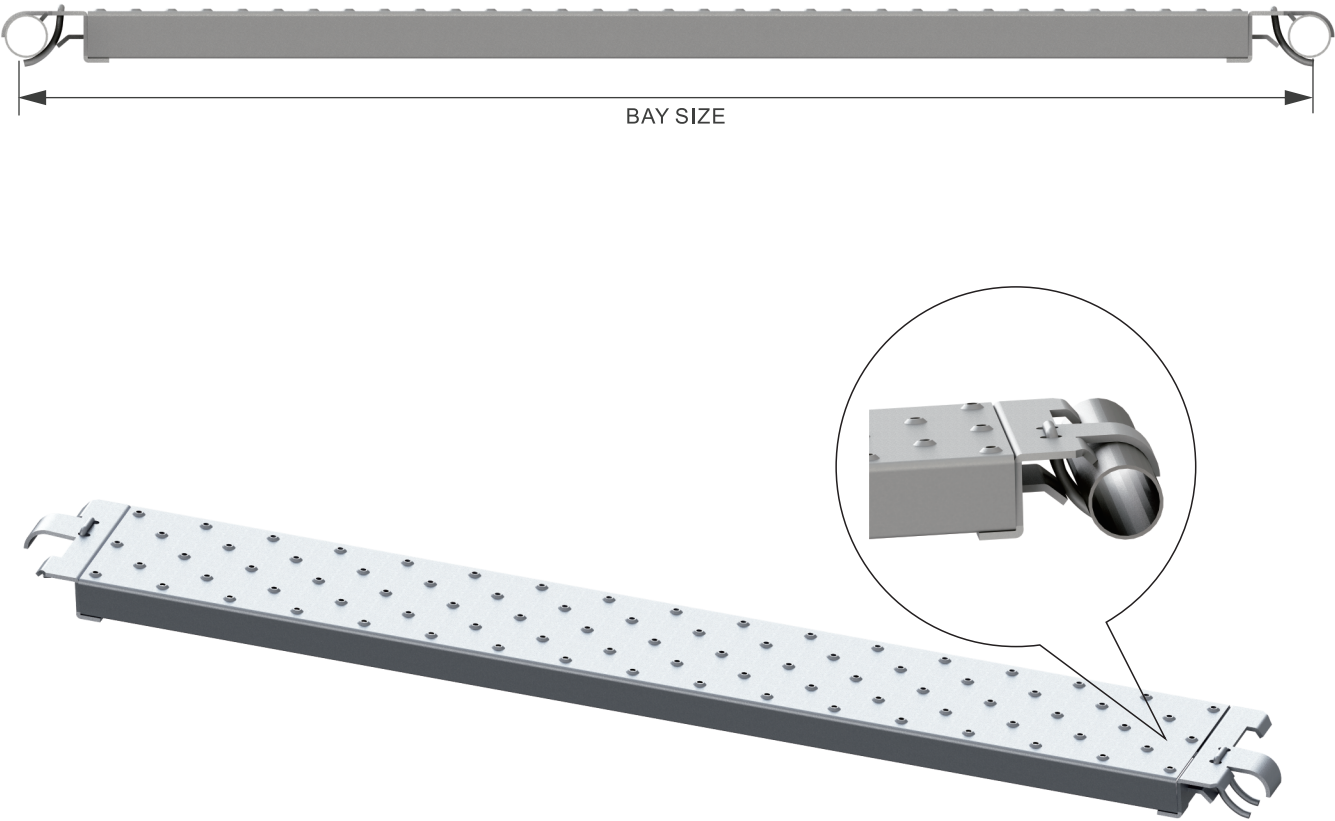
DESCRIPTION	BL	BH	WEIGHT(kg)
Diagonal Brace 1150 x 1000	1150	1000	5.6
Diagonal Brace 1150 x 2000	1150	2000	7.9
Diagonal Brace 1500 x 1000	1500	1000	6.2
Diagonal Brace 1500 x 2000	1500	2000	8.5

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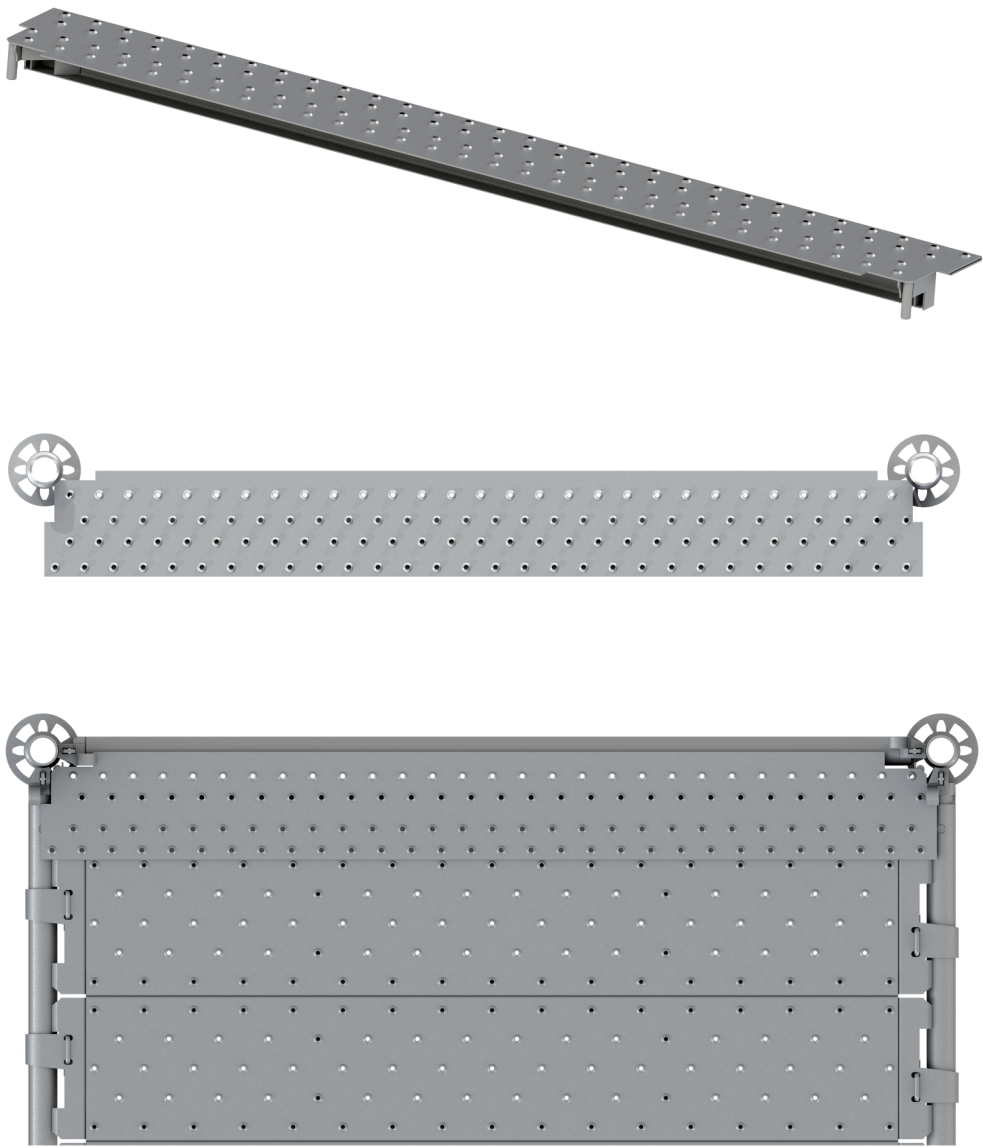
DESCRIPTION	ACTUAL LENGTH	WEIGHT(kg)
Standard 1000	800mm	4.1
Standard 1500	1300mm	6.8
Standard 2000	1800mm	9.5
Standard 2500	2300mm	12.3

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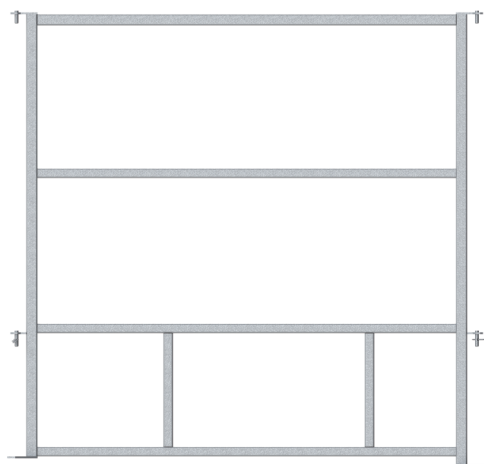
DESCRIPTION	BAY SIZE	WEIGHT(kg)
Platform Board 900	900mm	6.6
Platform Board 1150	1150mm	7.8
Platform Board 1500	1500mm	9.6

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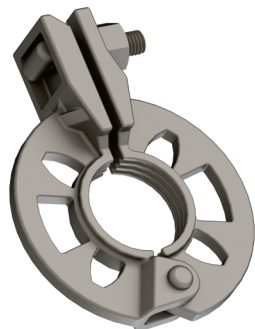
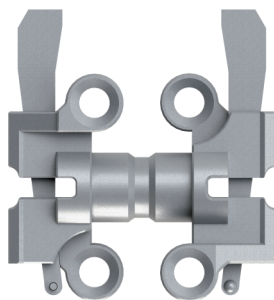


DESCRIPTION	BAY SIZE	WEIGHT(kg)
Platform Infill Board 1150	1150mm	6.8
Platform Infill Board 1500	1500mm	8.7

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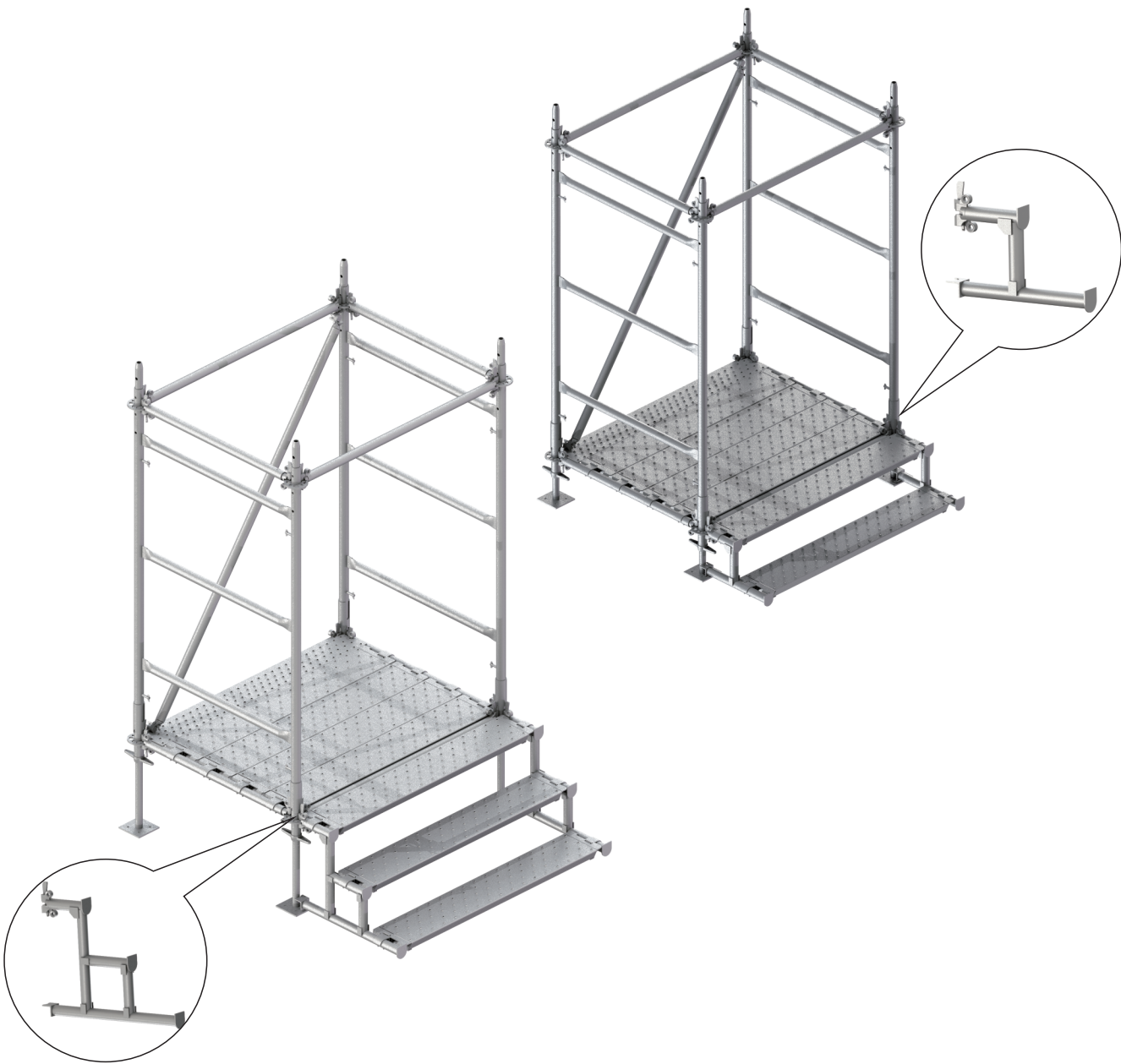


DESCRIPTION	BAY SIZE	WEIGHT(kg)
1150 Safety Panel	1150mm	11.7
1500 Safety Panel	1500mm	13.6



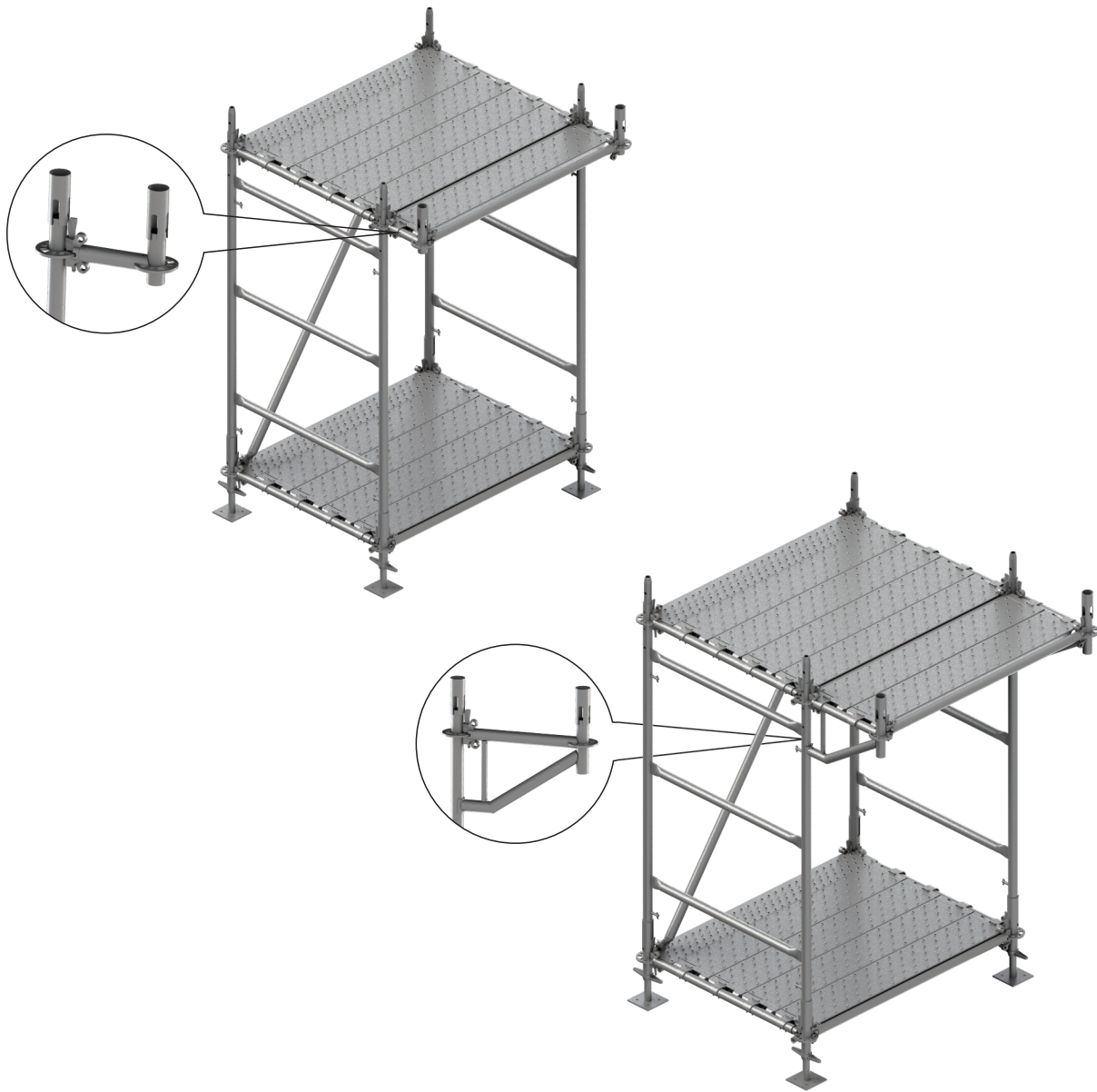
DESCRIPTION	Back to Back Pressing	DESCRIPTION	Rosette Clamp
C to C LENGTH	150mm	INNER DIA.	50.80
WEIGHT(kg)	1.7	WEIGHT(kg)	1.1

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DESCRIPTION	BOARDS	WEIGHT(kg)
Single Down Bracket	1 Board	4.0
Double Step Down Bracket	2 Boards	6.9

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DESCRIPTION	BOARDS	WEIGHT(kg)
Hop Up Bracket	1 Board	3.2
Hop Up Bracket	2 Boards	6.8

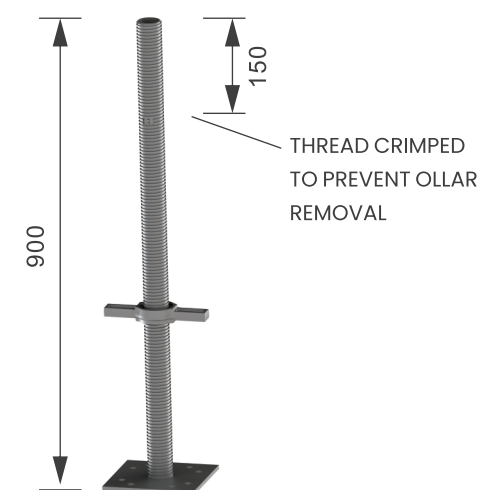
3 board Hop Up(Made to Order)

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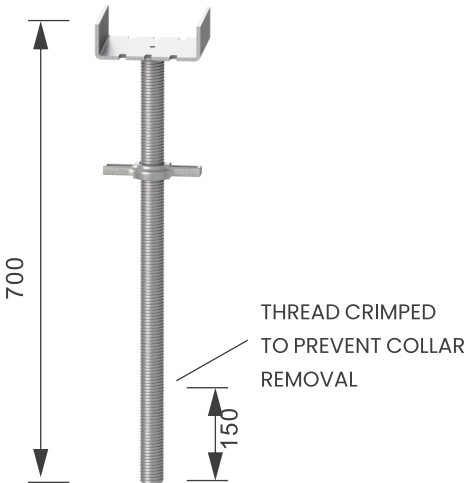


DESCRIPTION	LENGTH	HEIGHT	WEIGHT(kg)
Staircase	2650	2000	47.2
Handrail	2650	2000	9.9

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DESCRIPTION	Jack Base
WEIGHT(kg)	2.9

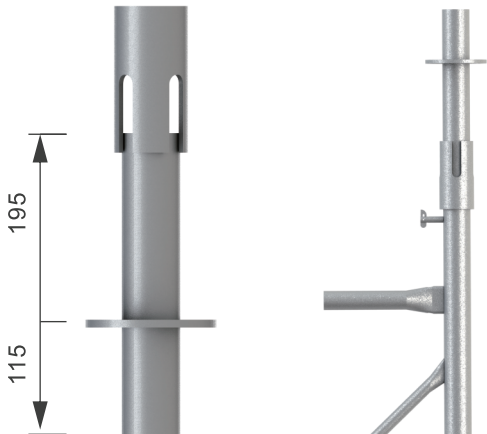


DESCRIPTION	U - Head
WEIGHT(kg)	6.4

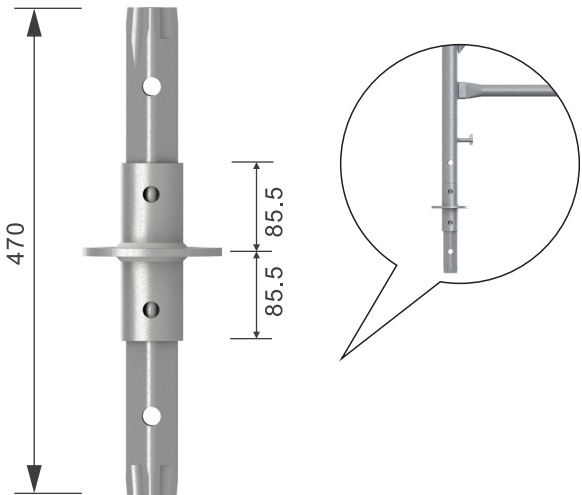


DESCRIPTION	Starter Collar
WEIGHT(kg)	2.9

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DESCRIPTION	XL 300mm Starter Collar
WEIGHT(kg)	3.6



DESCRIPTION	Intermediate Spigot
WEIGHT(kg)	2.8

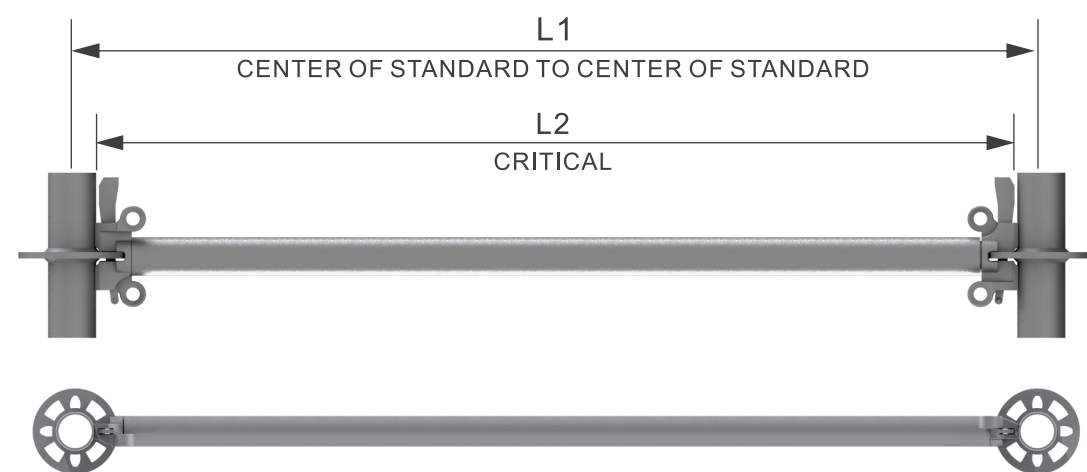
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DESCRIPTION	1219mm Adjustable Ledger
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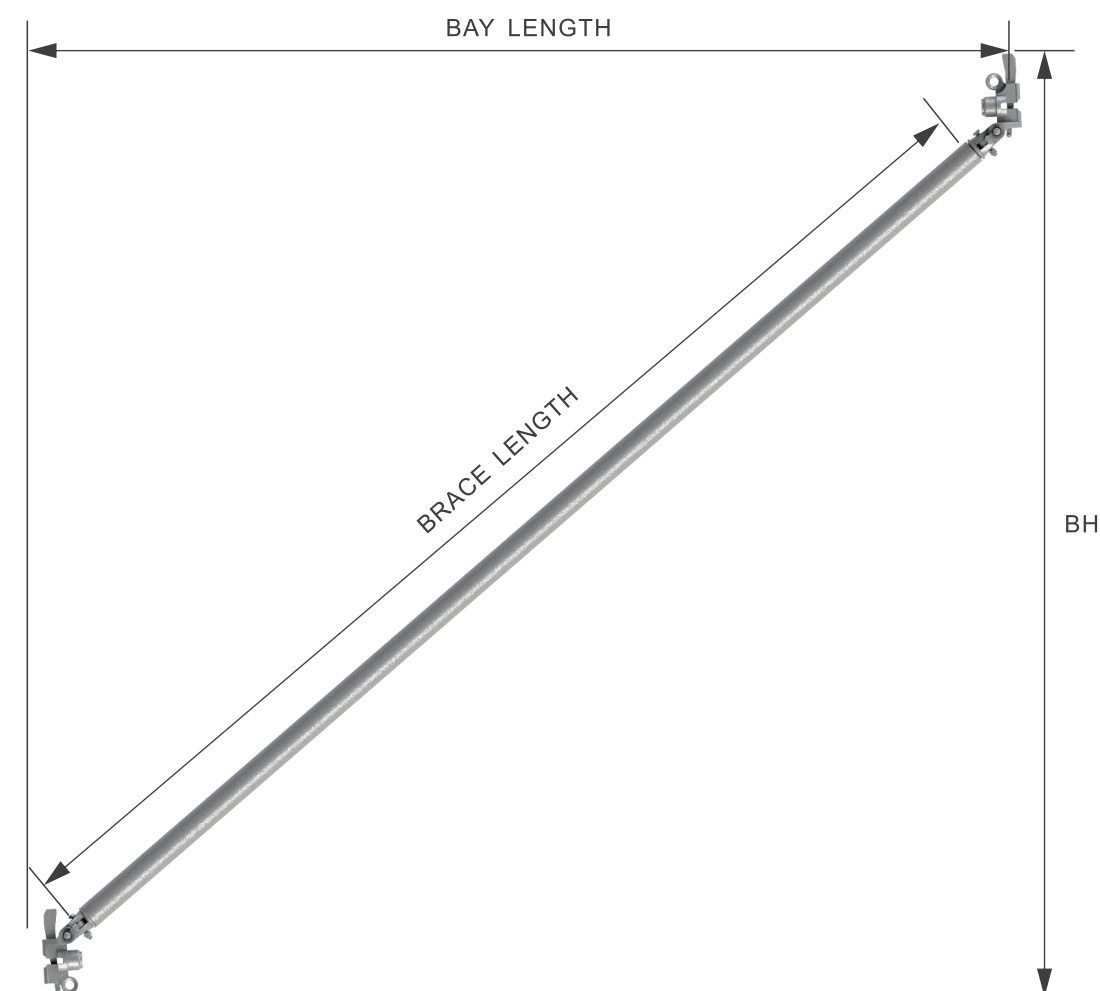
WEIGHT(kg)	5.1
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Adjustable ledgers are only used under frame



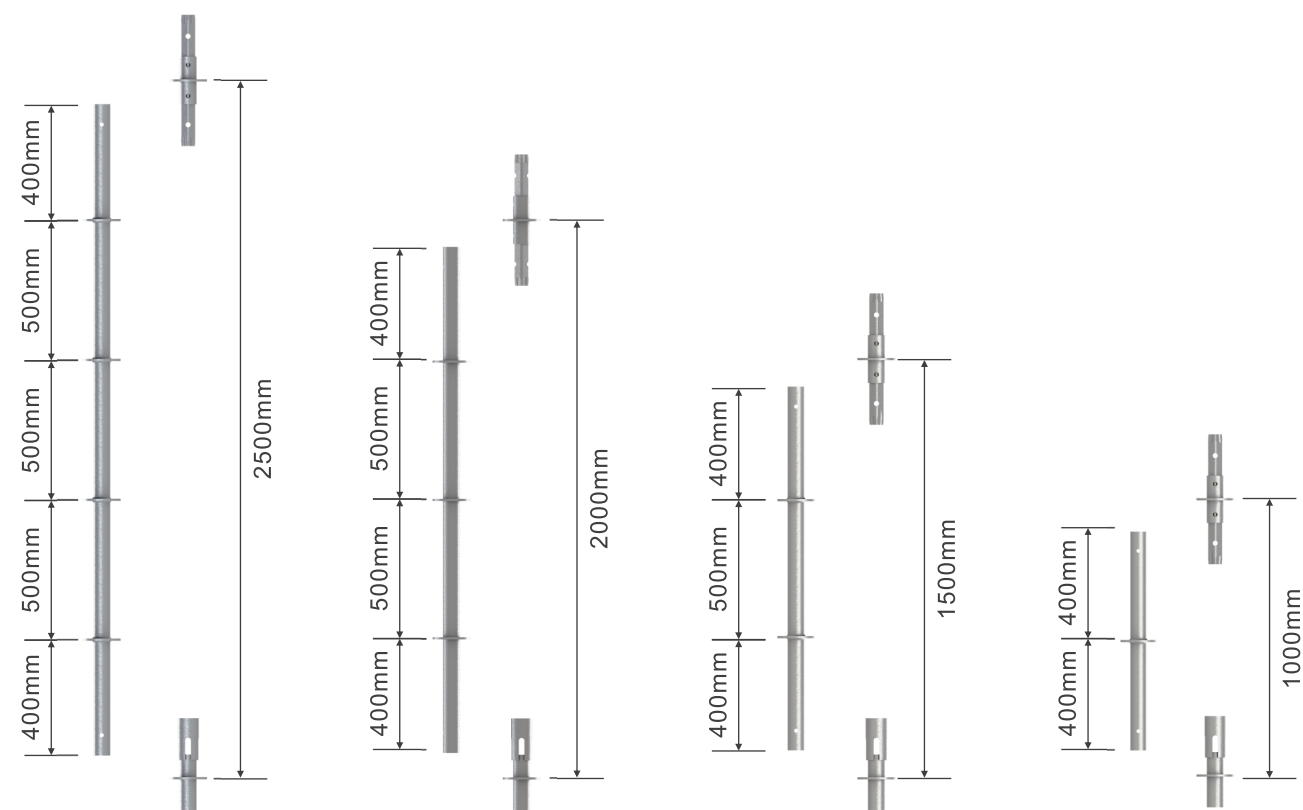
DESCRIPTION	L1	L2	WEIGHT(kg)
900mm Ledger	900	840	4.2
1219mm Ledger	1219	1159	5.1
1524mm Ledger	1524	1644	6.1

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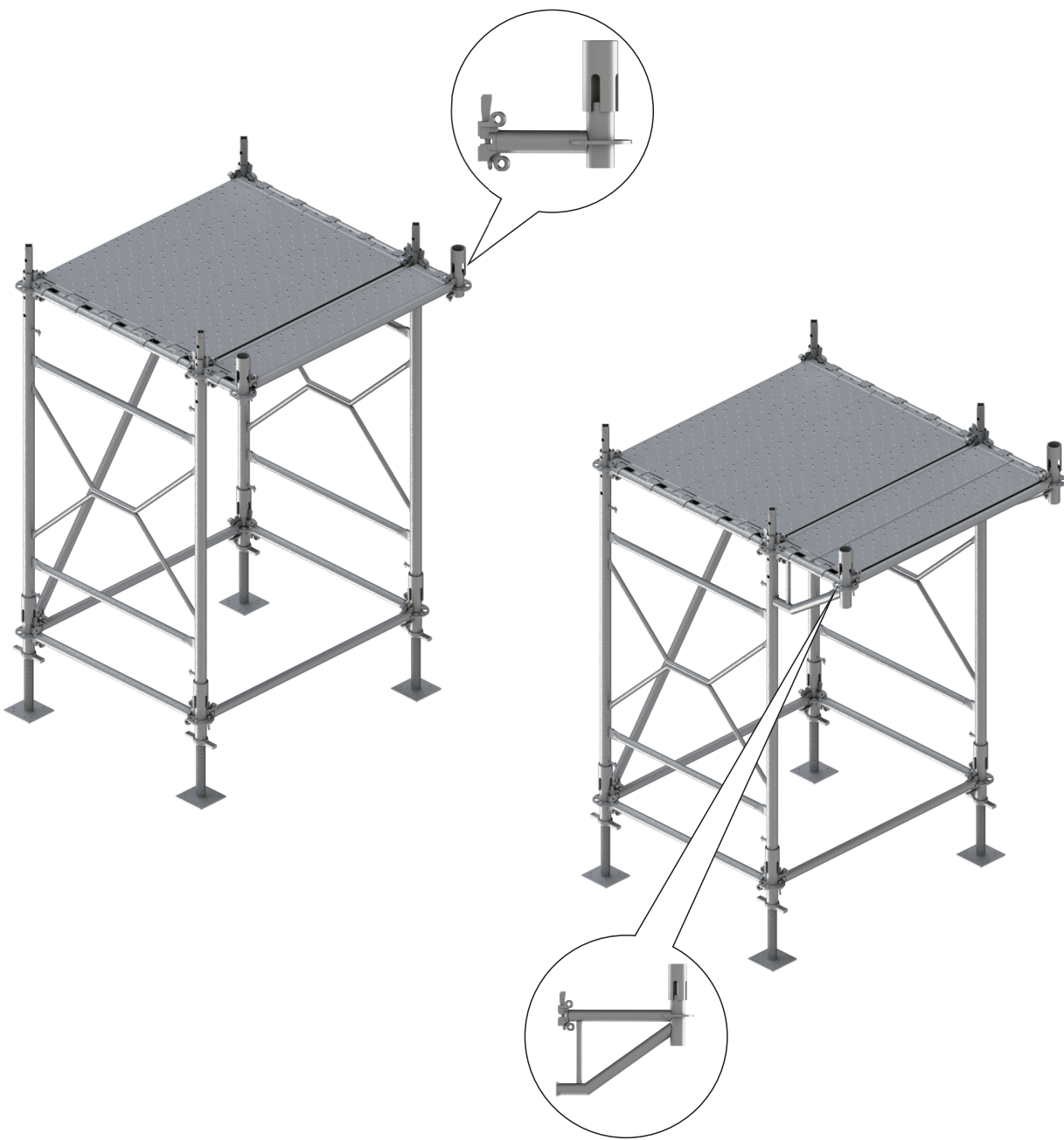
DESCRIPTION	BL	BH	WEIGHT(kg)
Diagonal Brace 1219 x 1500	1219	1500	6.32
Diagonal Brace 1219 x 2000	1219	2000	7.6
Diagonal Brace 1524 x 1500	1524	1500	6.96
Diagonal Brace 1524 x 2000	1524	2000	8.1

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DESCRIPTION	ACTUAL LENGTH	WEIGHT(kg)
Standard 1000	829mm	4.3
Standard 1500	1329mm	7.0
Standard 2000	1829mm	9.7
Standard 2500	2329mm	12.5

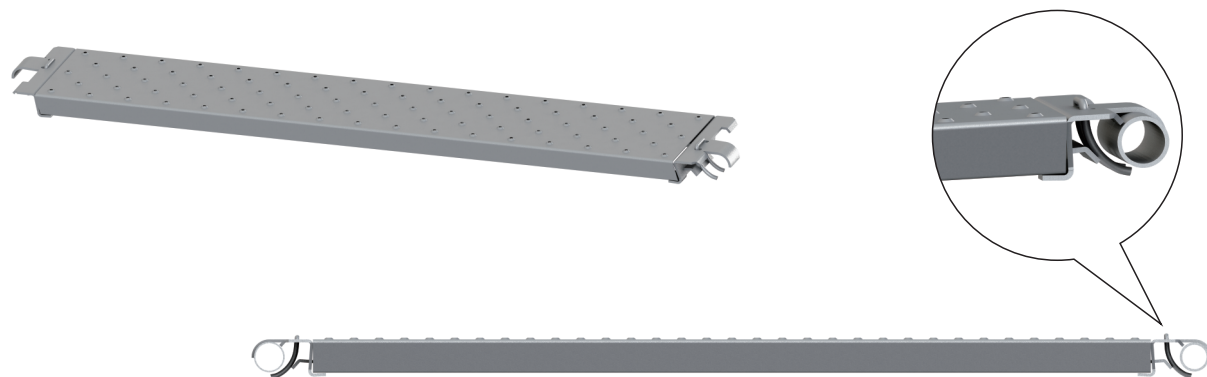
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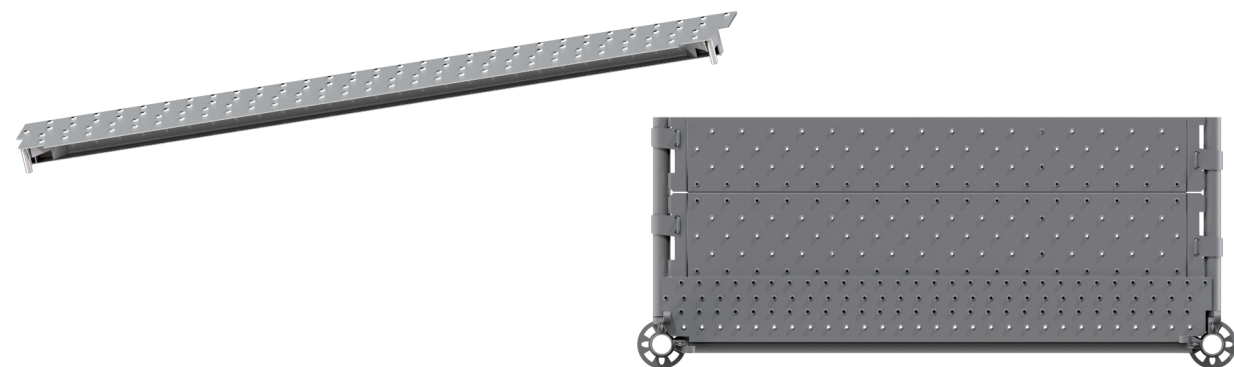
DESCRIPTION	BAY SIZE	WEIGHT(kg)
Hop Up Bracket	1 Board	2.1
Hop Up Bracket	2 Boards	7.7

3 Board Hop Up(Made to Order)

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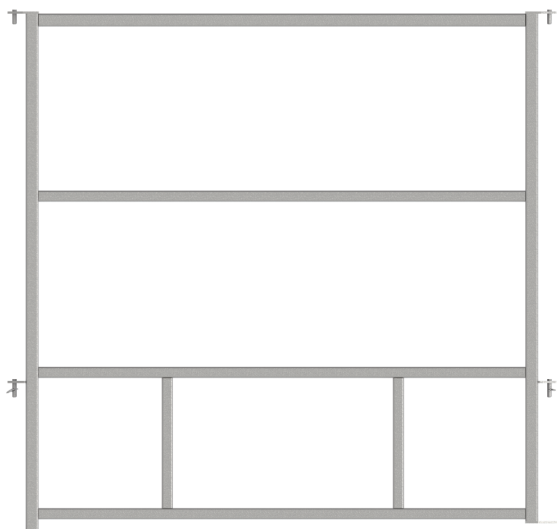


DESCRIPTION	BAY SIZE	WEIGHT(kg)
Platform Board 900	900mm	6.7
Platform Board 1219	1219mm	9.3
Platform Board 1524	1524mm	11.8

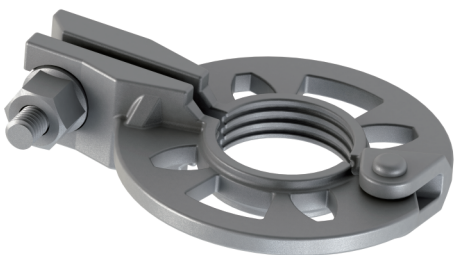


DESCRIPTION	BAY SIZE	WEIGHT(kg)
Platform Infill Board 900	900mm	4.9kg
Platform Infill Board 1219	1219mm	6.9kg
Platform Infill Board 1524	1524mm	8.8kg

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DESCRIPTION	BAY SIZE	WEIGHT(kg)
900 Safety Panel	900	11.1
1219 Safety Panel	1219	12.2
1524 Safety Panel	1524	13.3



DESCRIPTION	INNER DIA.	WEIGHT(kg)
Rosette Clamp	60.5	1.2

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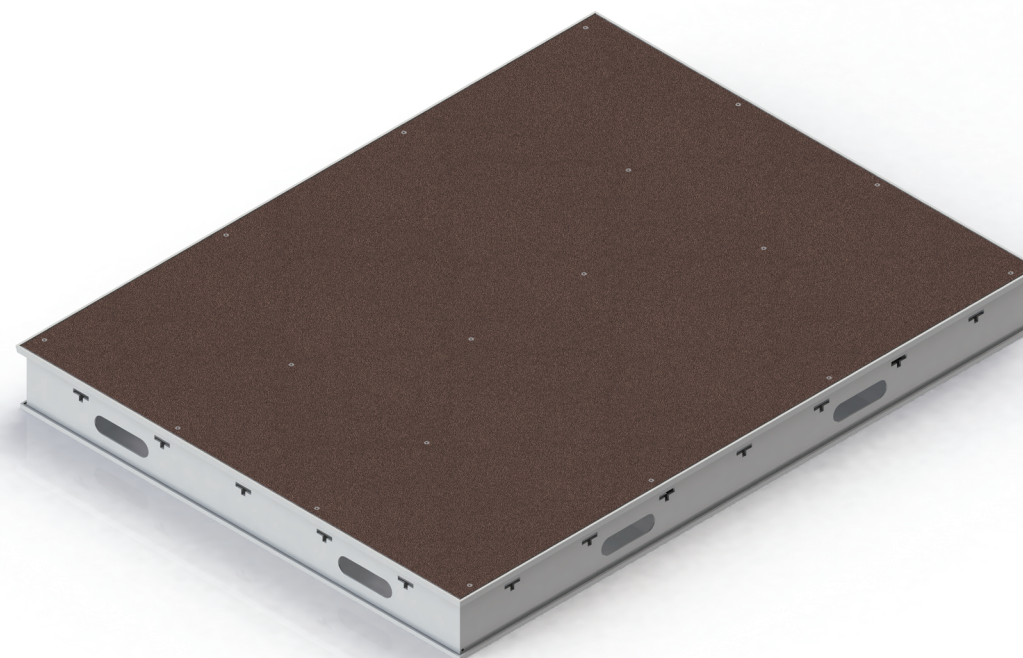


DESCRIPTION	WEIGHT(kg)
Crown	2.7



DESCRIPTION	WEIGHT(kg)
Installation Rod	4.3

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DESCRIPTION	WEIGHT(kg)
Aluminium Panel 1150 x 1150	22.1
Aluminium Panel 1150 x 1500	26.3
Aluminium Panel 1219 x 1219	25.8
Aluminium Panel 1219 x 1524	30.6

*Other panel sizes are available on a made to order basis

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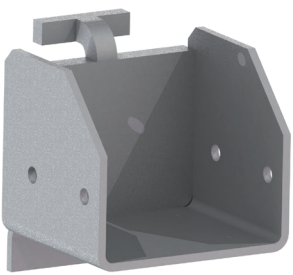


DESCRIPTION	WEIGHT(kg)
1150 Infill Beam	6.20
1500 Infill Beam	7.45
1219 Infill Beam	6.40
1524 Infill Beam	7.54

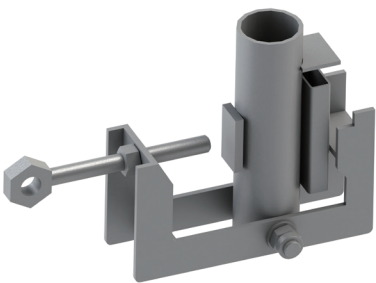
*Other Infill beam sizes are available on a made to order basis

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DESCRIPTION	WEIGHT(kg)
Infill Brackets	0.70



DESCRIPTION	WEIGHT(kg)
Handrail Brackets	3.50



DESCRIPTION	WEIGHT(kg)
Handrail Post	4.70

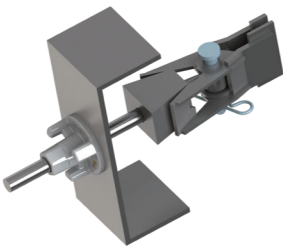


DESCRIPTION	WEIGHT(kg)
Connecting Bolts M10	0.2

*Only 2 bolts required to fix crown to prop

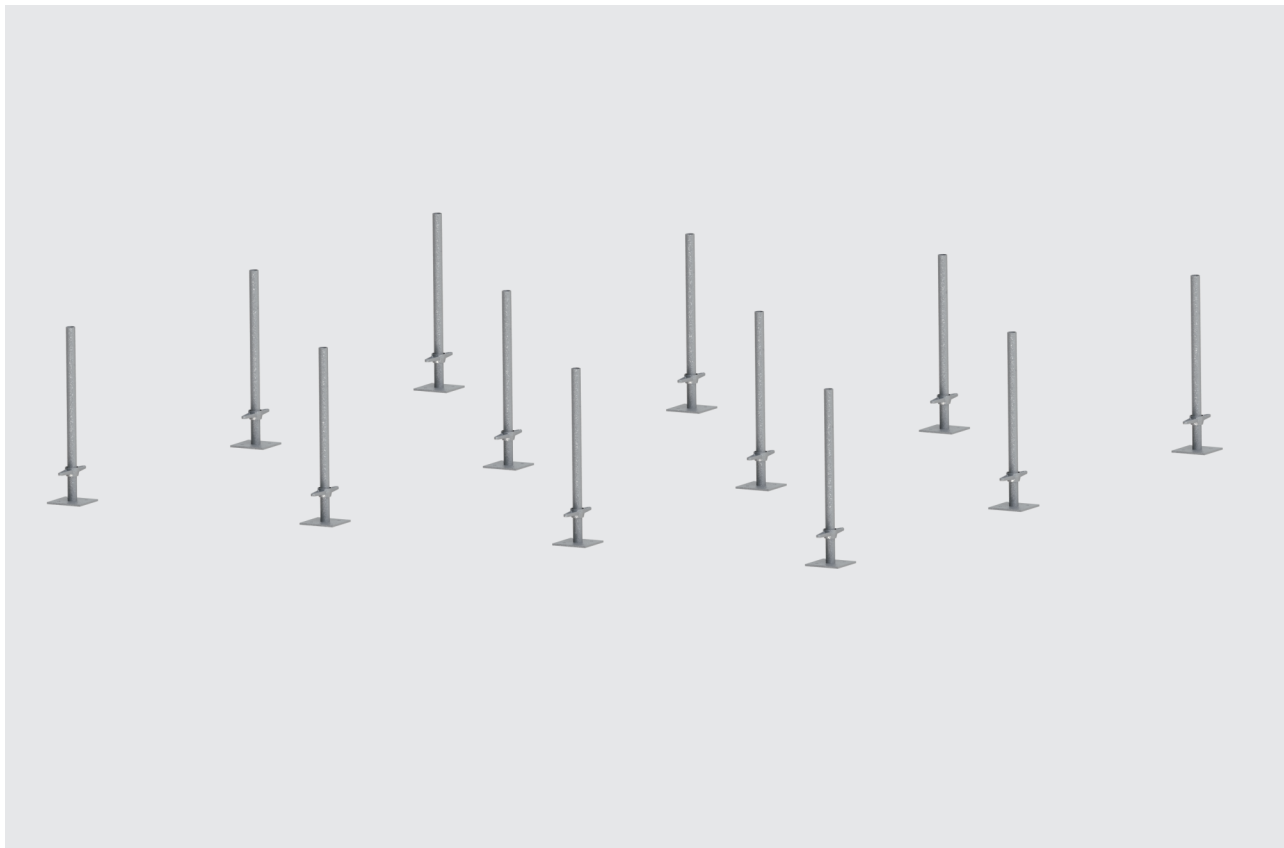


DESCRIPTION	WEIGHT(kg)
Hanging Bracket	4.20



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Step 1 Set Base Jacks



Set base jacks in position and approximate height as per formwork designer requirements.

HAZARD	CONTROL
Failure of formwork	Ground conditions must be stable at all times while supporting loads Jacks to be placed on even and level surface
Inadequate Alignment	Where ground heights vary ensure minimum jack height is considered in the formwork design to allow appropriate adjustment Jacks to be placed on even and level surface
Uneven settlement	Appropriate sole boards to be used as deemed by the formwork designer

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Step 2 Install Starter Collar

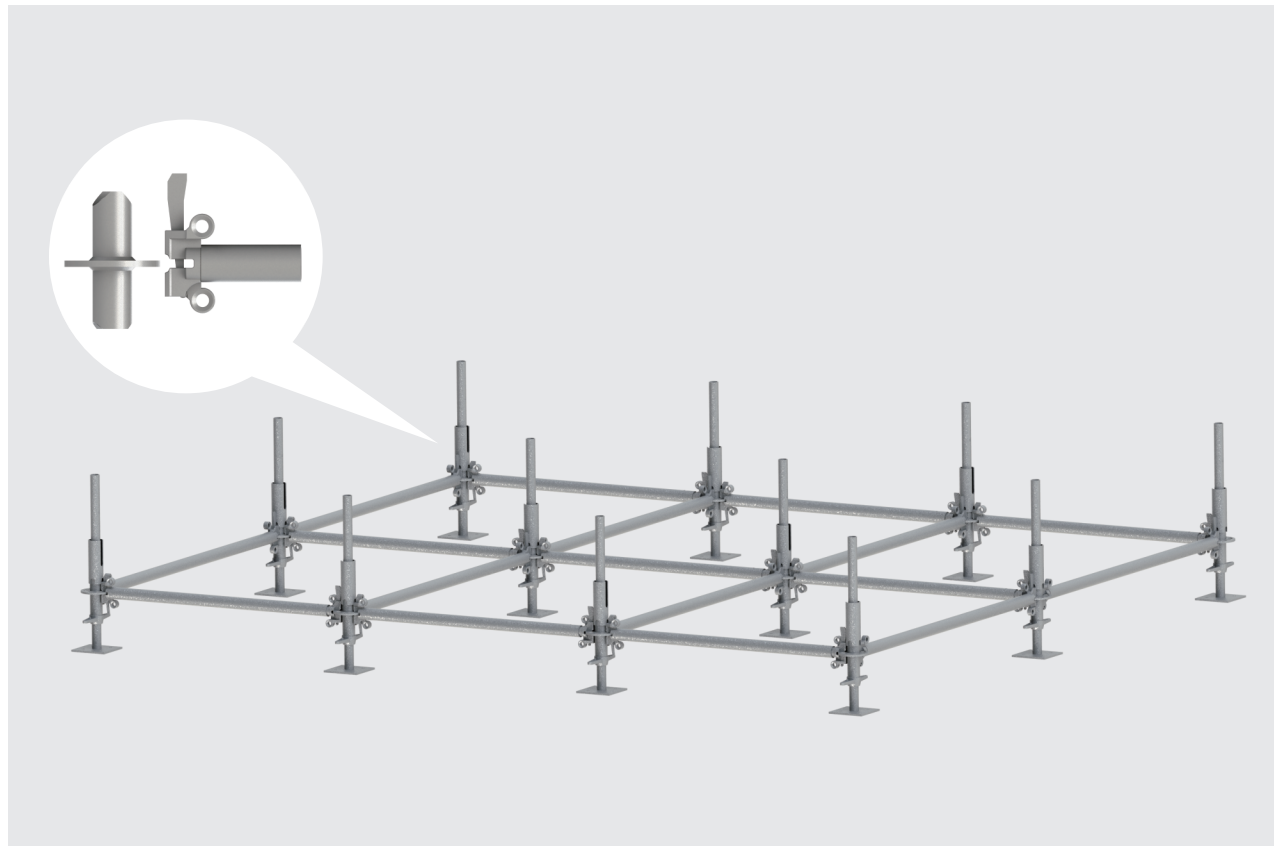


Place starter collar over screw jack and ensure collar firmly rests directly on the jack spindle.

HAZARD	CONTROL
Failure of component	Visually inspect starter collar for any damage. If damaged remove from service
Inadequate alignment	Rotate the starter collar rosette so that the narrow attachment opening is in the intended direction of the ledger

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Step 3 Install Bottom Ledgers



Carefully position the ledger ends onto the rosette and locate the wedge into the rosette attachment opening (avoid fully fastening the wedge to the rosette as this will not allow precision height adjustment)

HAZARD	CONTROL
Failure of formwork	Visually inspect ledger for any damage. If damaged remove from service
Inadequate Alignment	Use correct ledger types as per formwork designer layout

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Step 4 Level And Fasten Ledgers

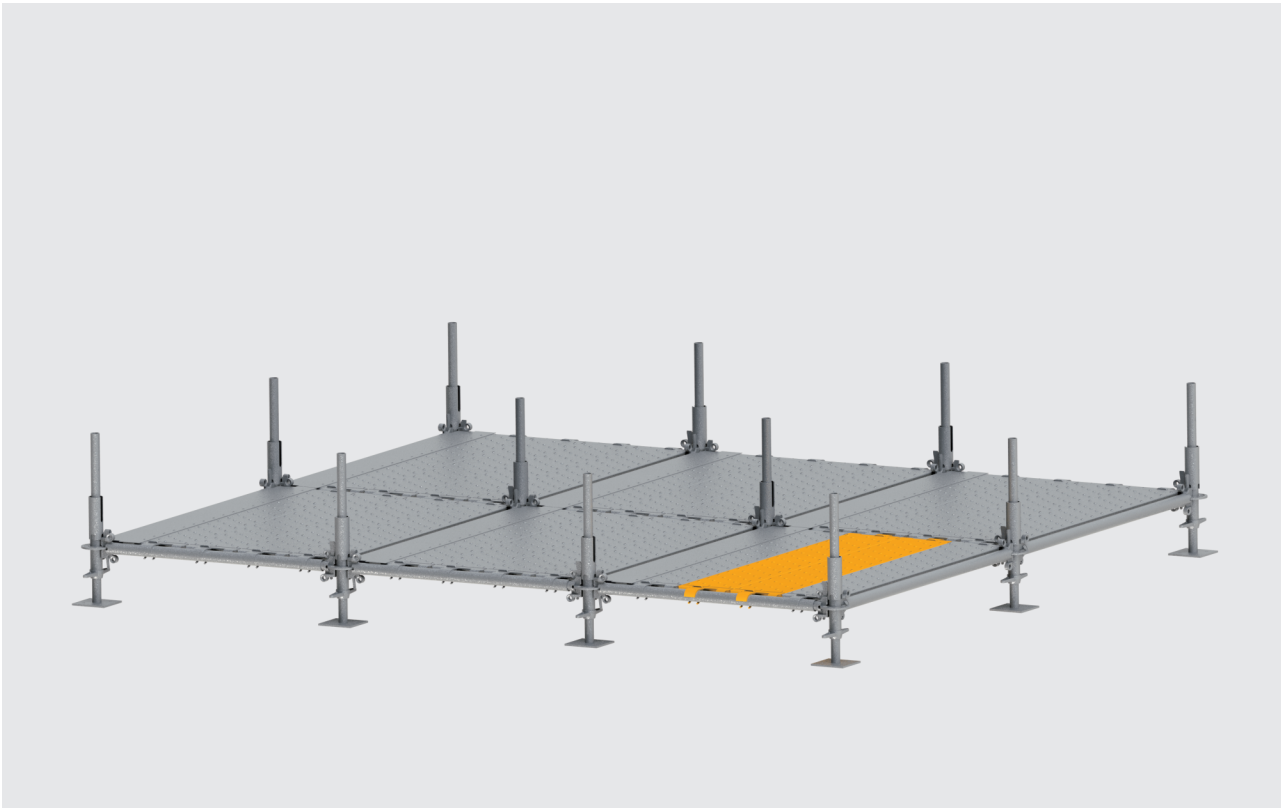


Ensure base out is square and ledgers are level.

HAZARD	CONTROL
Inadequate alignment	At this point in the sequence it is critical to make sure all bays are square and levelled. It is recommended a laser level is used for accurate precision
Dislodgement during erection	Check that all ledger ends are firmly secured to starter collar rosette
Failure of formwork	Check that all bay sizes are as per formwork designers layout

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Step 5 Place Boards

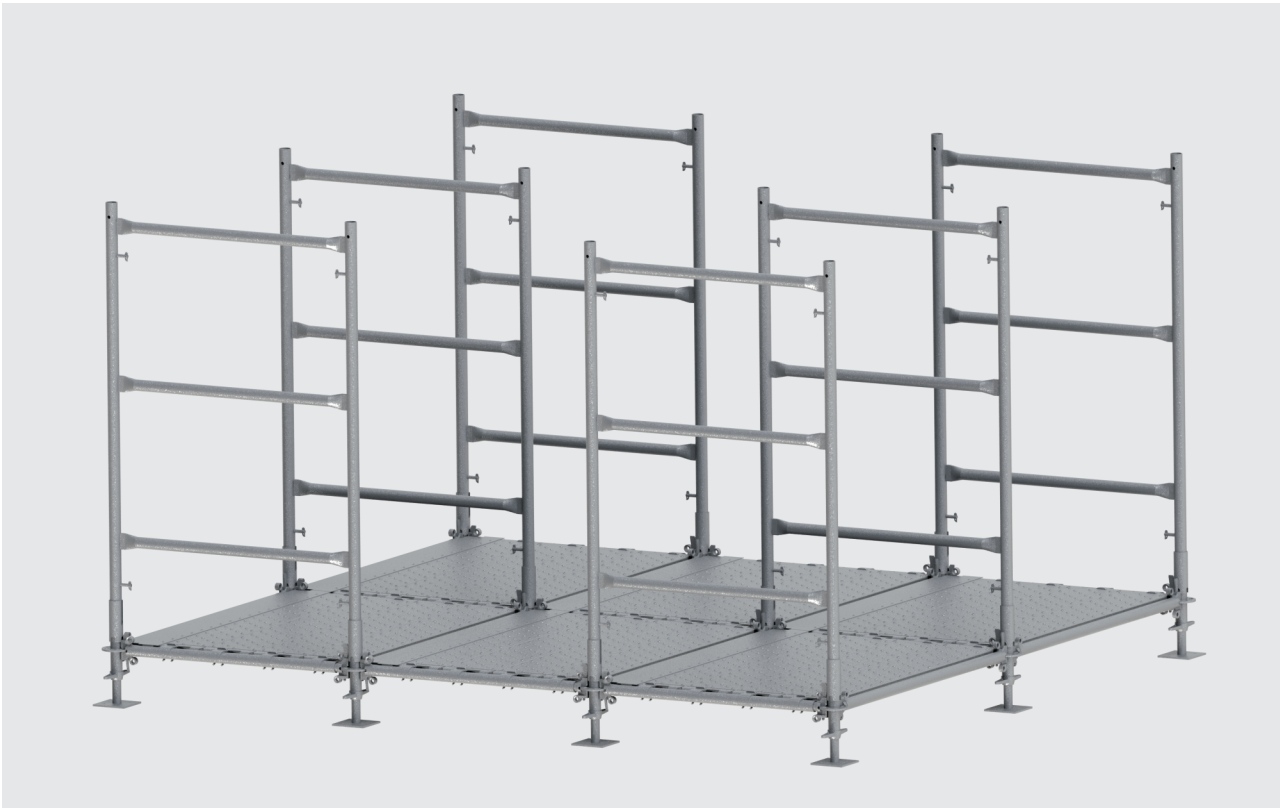


Place boards as required in preparation to top up frames.
Note: Minimum 2 boards wide per working bay recommended. Full decking is optional.

HAZARD	CONTROL
Fall of person less than 2m	Minimum of 2 boards(450mm wide)to be used in absence of a complete board working deck below
Dislodgement of boards	When using manufacturer boards secure locking latch. Where the use of manufacturer boards are not used the formwork installer must take adequate provisions to avoid dislodgment
Falls and slips at level	In absence of a complete board working deck workers are to be aware of potential trips hazards when stepping over ledgers and jacks

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Step 6 Top up Frames

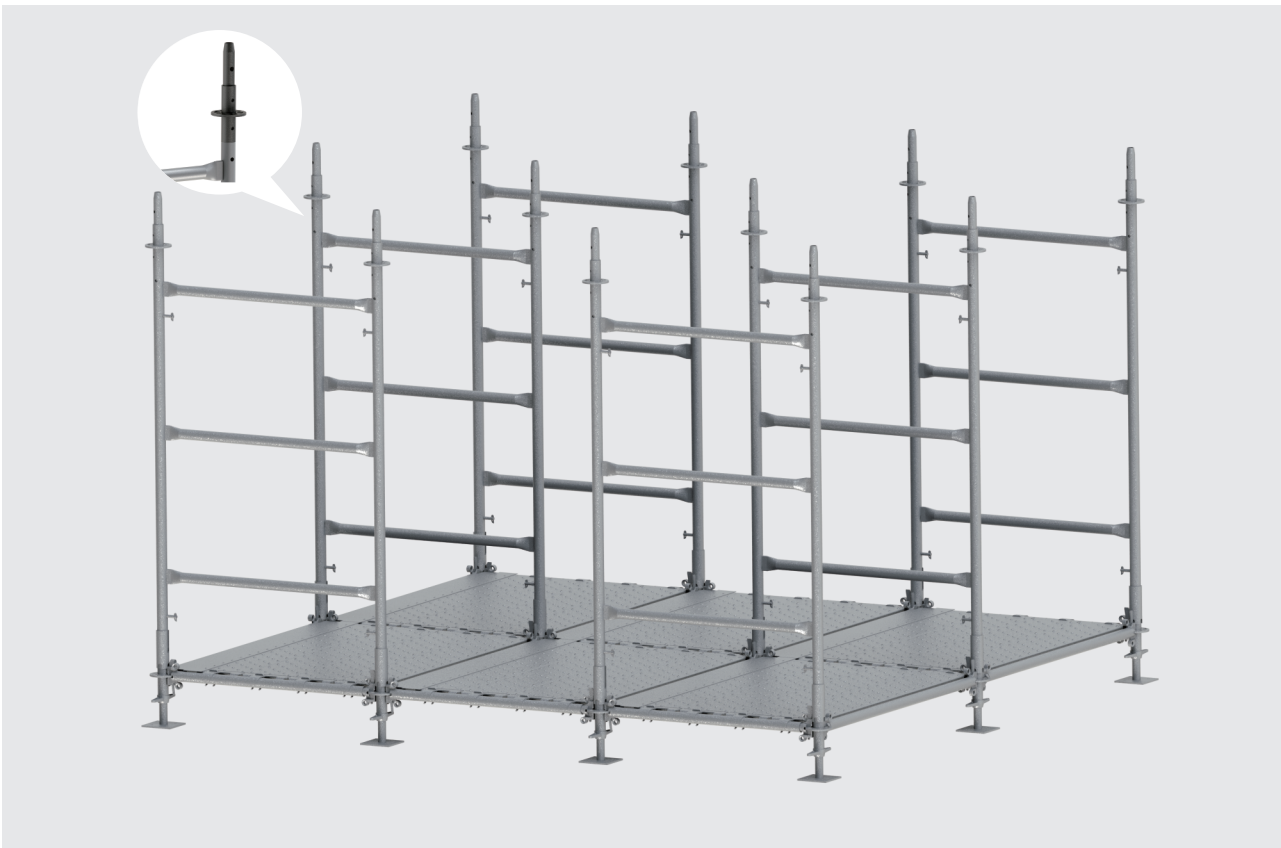


Carefully place frames over jacks to seat firmly inside starter collars as per formwork designers frame requirements

HAZARD	CONTROL
Formwork frame failure	Only approved frames types are to be used as specified by the certifying engineer. DO NOT MIX FRAME TYPES. Frames should be visually inspected. Damage frames to be removed from service
Inadequate alignment	Check that frames are adequately seated within the starter collar
Fall of person less than 2m	Minimum of 2 boards(450mm wide)to be used in absence of a complete board working deck below
Fall of object	Check that frames are adequately seated within the starter collar

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Step 7 Install Frame Connector

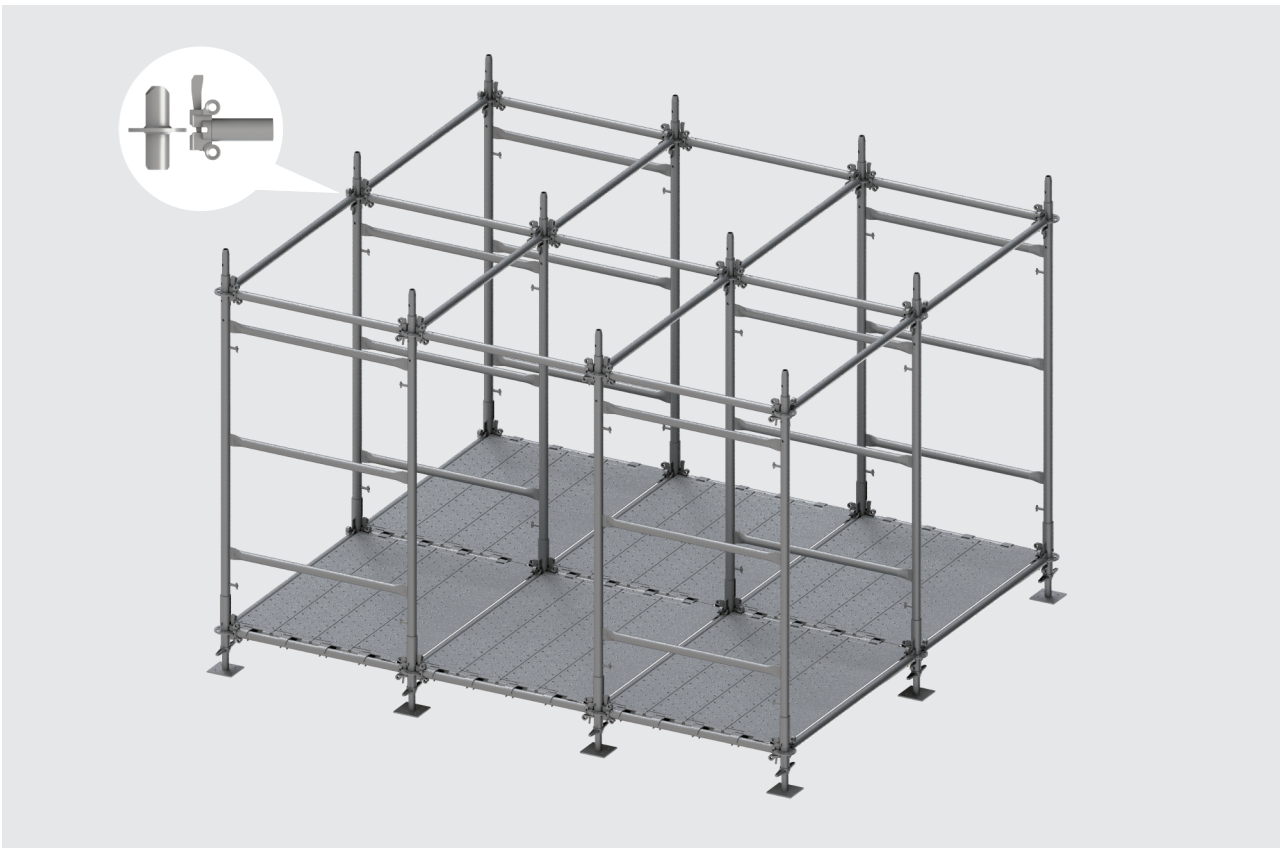


Install frame connector on top of frames

HAZARD	CONTROL
Formwork frame failure	Visually inspect frame connector for any damage. If damaged remove from service
Inadequate alignment	Check that connectors are adequately seated on frames
Fall of person less than 2m	Minimum of 2 boards(450mm wide)to be used in absence of a complete board working deck below
Fall of object	Check that connectors are adequately seated on frames

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Step 8 Install Ledgers to connector

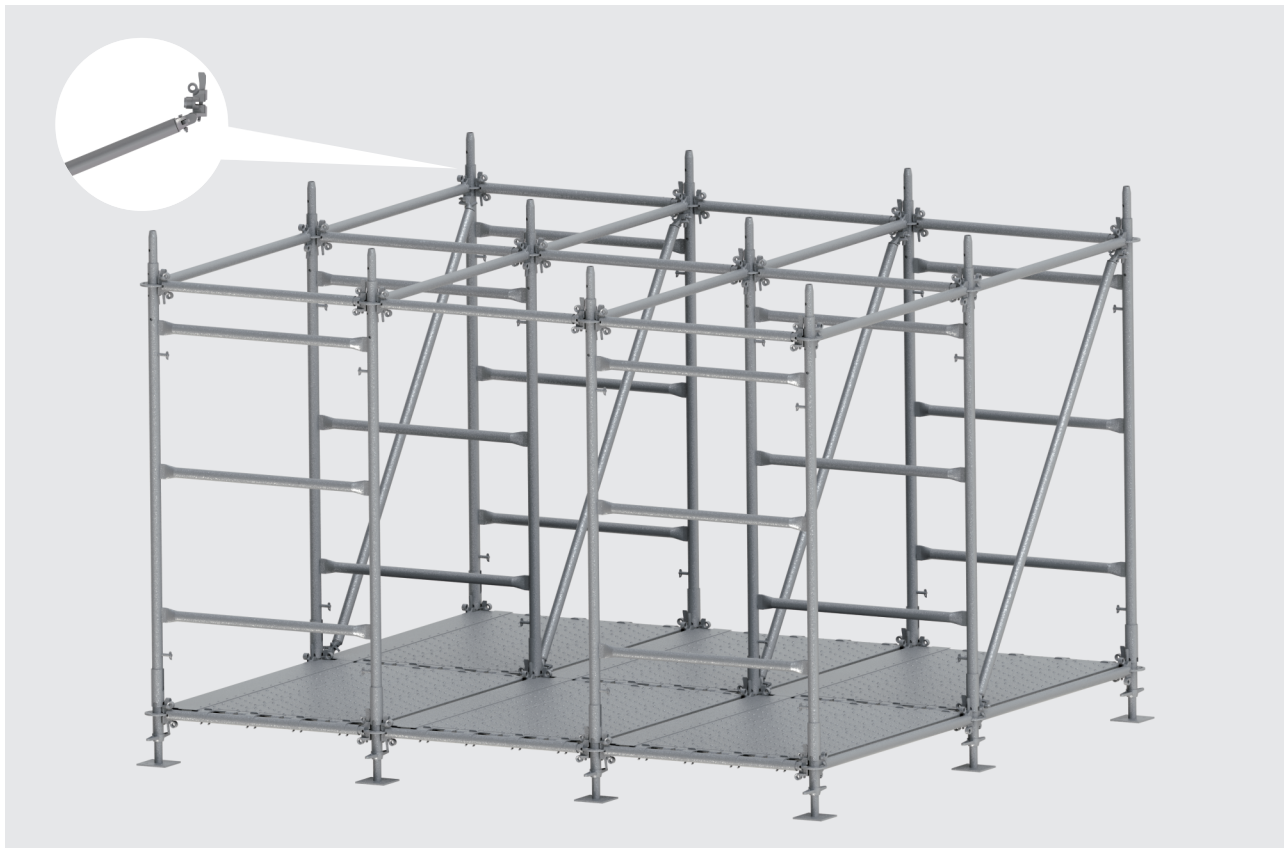


Carefully position the ledger ends onto the rosette on the frame connector overhead. Locate the wedge and secure into the rosette attachment opening

HAZARD	CONTROL
Failure of component	Visually inspect ledger for any damage. If damaged remove from service
Inadequate alignment	Use correct ledger types as per formwork designer layout
Fall of person (less than 2m)	Minimum of 2 boards(450mm wide)to be used in absence of a complete board working deck
Fall of object	Fix one ledger end before locating the other ledger end

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Step 9 Install Diagonal Bracing

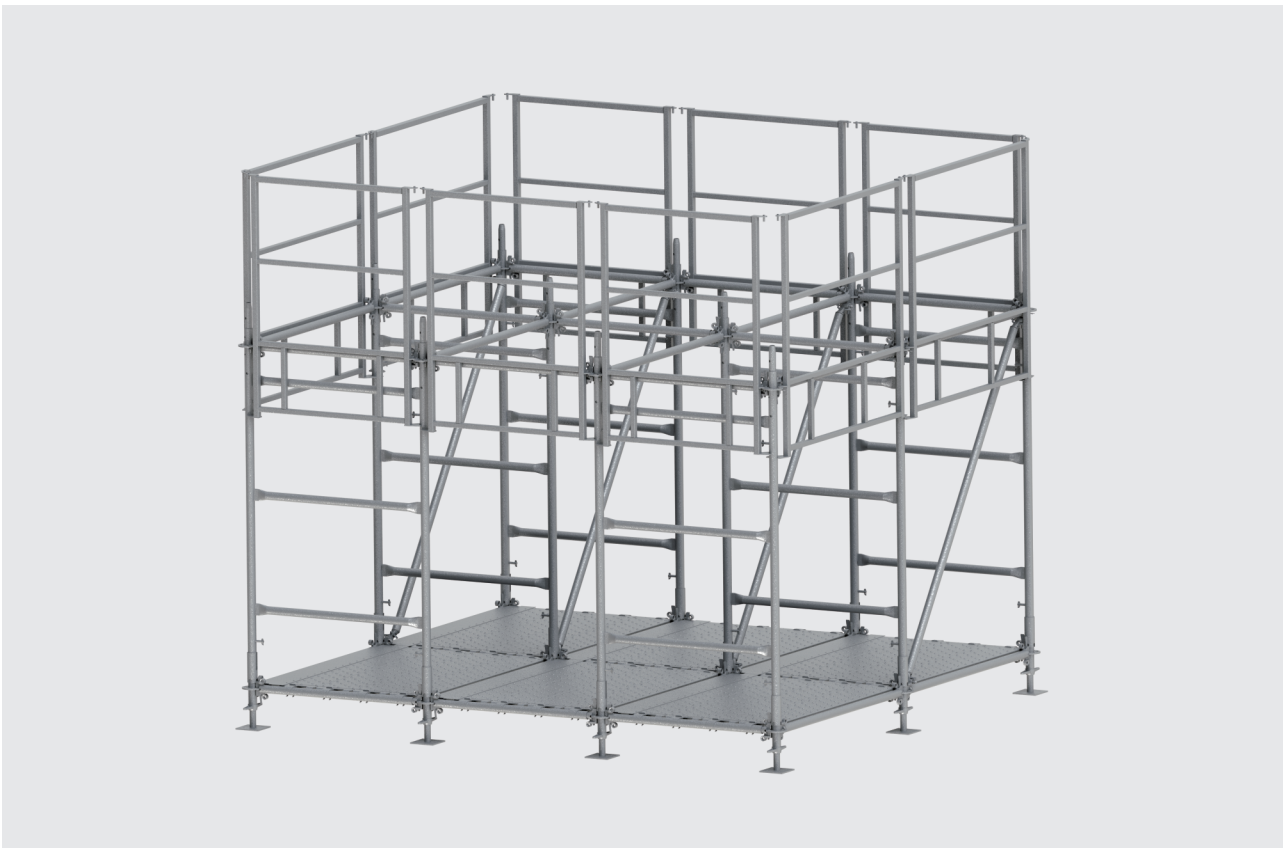


Connect diagonal bracing to ledgers ends as per formwork designer requirements

HAZARD	CONTROL
Failure of component	Visually inspect braces for any damage. If damaged remove from service
Fall of person (less than 2m)	Install from below. Minimum of 2 boards(450mm wide) to be used inabsence of a complete board working deck
Fall of object	Make sure braces are fixed to the ledger ends prior to releasing grip

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Step 10 Install Safety Panel



Install frames to connectors, ensuring they sit well on the connectors

HAZARD	CONTROL
Failure of component	Visually inspect safety panel for any damage. If damaged remove from service
Fall of person (less than 2m)	Install from below. Minimum of 2 boards(450mm wide)to be used inabsence of a complete board working deck
Fall of object	Ensure safety panel is securely engaged and seated into rosette opening prior to releasing grip

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Step 11 Install Catch Deck



Install boards from below to each bay to complete full fall protection in each bay prior to accessing the top of catch deck area

HAZARD	CONTROL
Fall of person less than 2m	Minimum of 2 boards(450mm wide)to be used in absence of a complete board working deck below When using manufacturer boards secure locking latch.
Dislodgement of boards	Where the manufacturer boards are not used the formwork installer must take adequate provisions to avoid dislodgment boards meet requied standards
Falls and slips at level	In absence of a complete board working deck workers are to be aware of potential trips hazards when stepping over ledgers

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Step 12 Install Frames To Next Lift



Install frames to connectors, ensuring they sit well on the connectors

HAZARD	CONTROL
Formwork frame failure	Only approved frames types are to be used as specified by the certifying engineer. DO NOT MIX FRAME TYPES. Frames should be visually inspected. Damage frames to be removed from service
Inadequate alignment	Check that frames are adequately seated within the starter collar
Fall of person less than 2m	Only access catch deck once all boards installed in all bays from below and are secure
Fall of object	Check that frames are adequately seated within the starter collar

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Step 13 Install Connectors And Ledgers (When Frame Top Up is Required)



Where it is required to top up additional frames to achieve desired strutting heights repeat steps 7 to 12

HAZARD	CONTROL
Formwork frame failure	Visually inspect ledger for any damage. If damaged remove from service
Inadequate alignment	Use correct ledger types as per formwork designer layout
Fall of person less than 2m	Only access catch deck once all boards installed in all bays from below and are secure
Fall of object	Fix one ledger end before locating the other ledger end

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Step 14 Install Top Collar And Ledgers (When Strutting Height is Achieved)

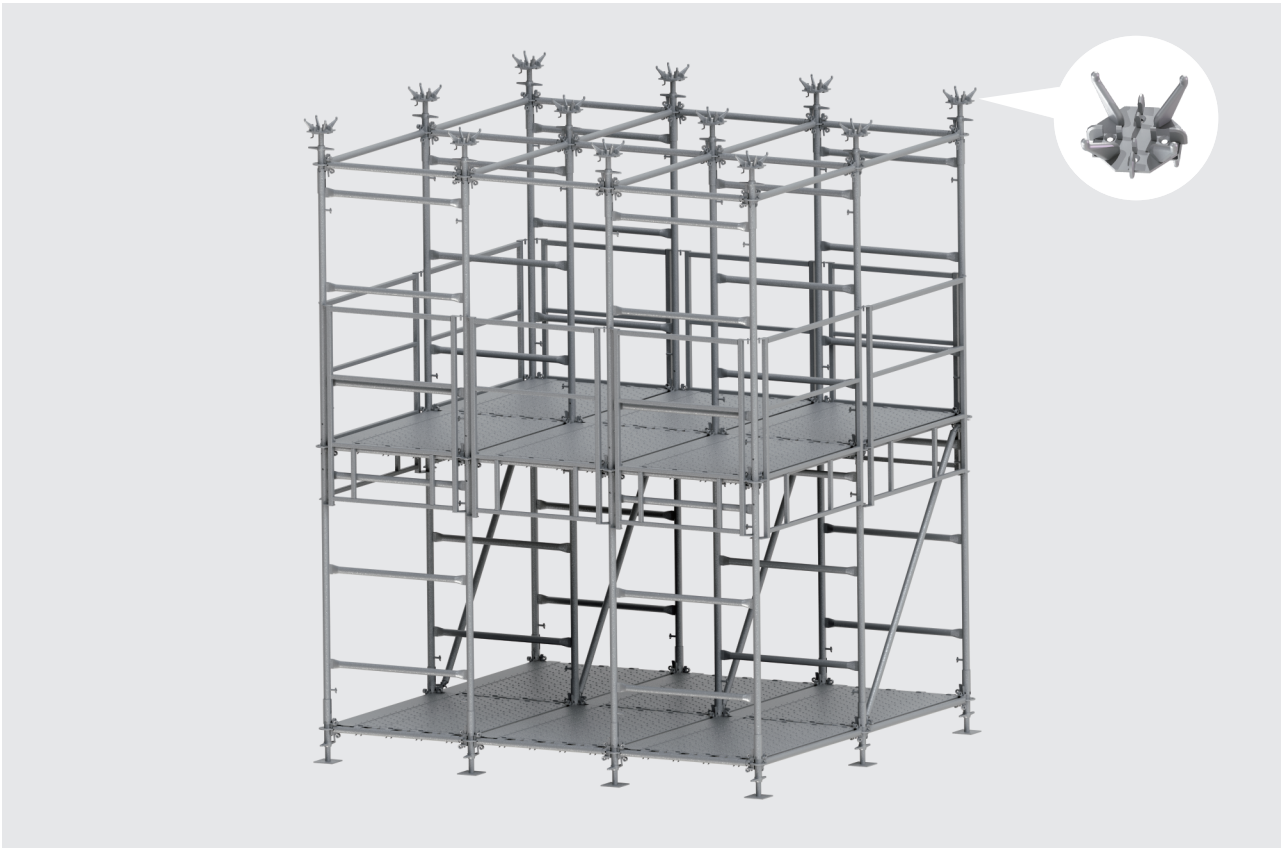


Once the required strutting height is achieved install top collars on to frames. Carefully position the ledger ends onto the rosette on the frame connector overhead. Locate the wedge and secure into the rosette attachment opening

HAZARD	CONTROL
Formwork frame failure	Visually inspect top collar for any damage. If damaged remove from service
Inadequate alignment	Check that top collar firmly seated on Frame Use correct ledger types as per formwork designer layout
Fall of person less than 2m	Only access catch deck once all boards installed in all bays from below and are secure
Fall of object	Fix one ledger end before locating the other ledger end

FrameMaster User Guide

Step 15 Install Top Jacks And Panel Crowns

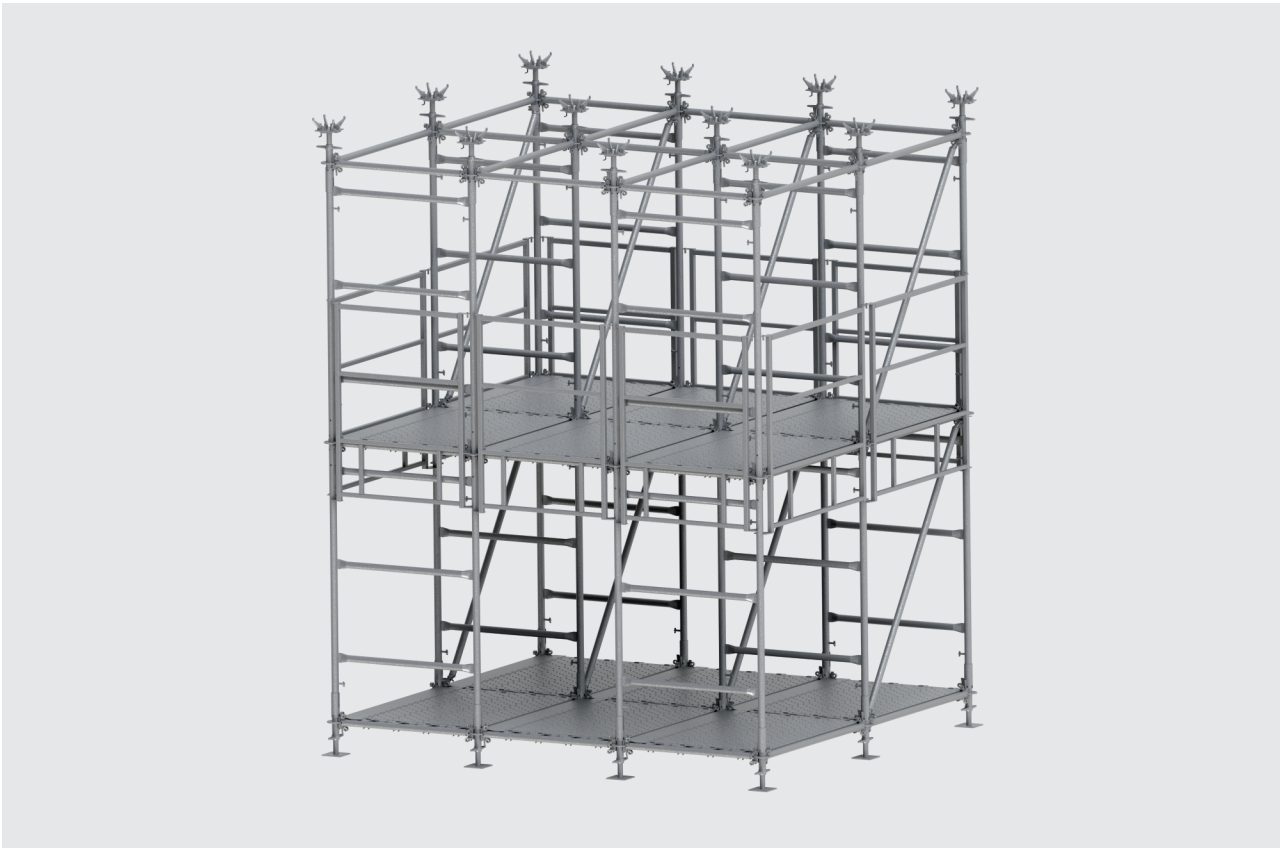


Once the required strutting height is achieved install top jacks and crowns to support panels

HAZARD	CONTROL
Formwork frame failure	Visually inspect jack and crowns for any damage. If damaged remove from service Check that jacks to not extend more than the specified limit by formwork designer
Inadequate alignment	Check that jacks firmly positioned and seated with in the top collar
Fall of person less than 2m	Only access catch deck once all boards installed in all bays from below and are secure
Fall of object	Fix one ledger end before locating the other ledger end

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Step 16 Install Diagonal Bracing



Connect diagonal bracing to ledgers ends as per formwork designer requirements

HAZARD	CONTROL
Failure of component	Visually inspect braces for any damage. If damaged remove from service
Fall of person (less than 2m)	Install from below. Minimum of 2 boards to be used in absence of a complete board working deck
Fall of object	Make sure braces are fixed to the ledger ends prior to releasing grip

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Step 17 Install Panels



Carefully install panels from below. Do not access the top f the panels until a safety check is completed and all fall protection is in place

HAZARD	CONTROL
Formwork frame failure	Visually inspect panels for any damage. If damaged remove from service
Inadequate alignment	Level jacks and firmly position panels in to crown
Fall of person less than 2m	Only access catch deck once all boards installed in all bays from below and are secure
Fall of object	Secure panels as per formwork designer requirements to prevent wind uplift and dislodgement

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HAZARDS

CONTROLS

Failure of temporary structure (Collapse)

- Ground conditions must be verified to be adequate to support all load conditions
- Formwork must be erected to formwork designer requirements.
- Any unplanned deviations and modification to formwork design requires designer to verify and approve prior to loading
- All components should be checked for damage prior to use. Damaged components must be removed from service
- Bracing to be installed progressively during the erection phase to eliminate the risk of lateral failure during erection.
- Maintain alignment, positioning and verticality to eliminate out of plumb conditions
- No equipment to be used that is not proprietary to the system unless engineered and approved
- Competent person must inspect and verify the formwork is erected as per the design prior to loading material
- Appropriate and competent Engineer must inspect and certify prior to placing concrete
- Concrete to be placed in accordance to engineers requirements
- Do not use unapproved accessories and components

Fall of Persons

- Apply appropriate means of access and egress to suit site con ditions
- Boards to be installed from below and secure where applicable
- Maintain leading edge protection when fall of person may exist

Falling objects

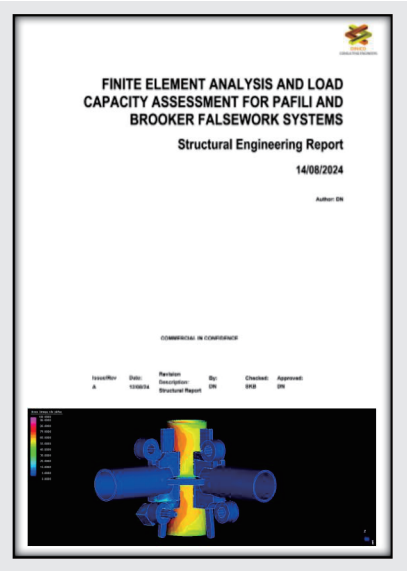
- Secure all loose items
- Check that all equipment is secure and installed correctly

Testing, Engineering and Certification

NADA Testing to AS 3610



FEA and verified testing



AS 3610.2:2020 Certification

