

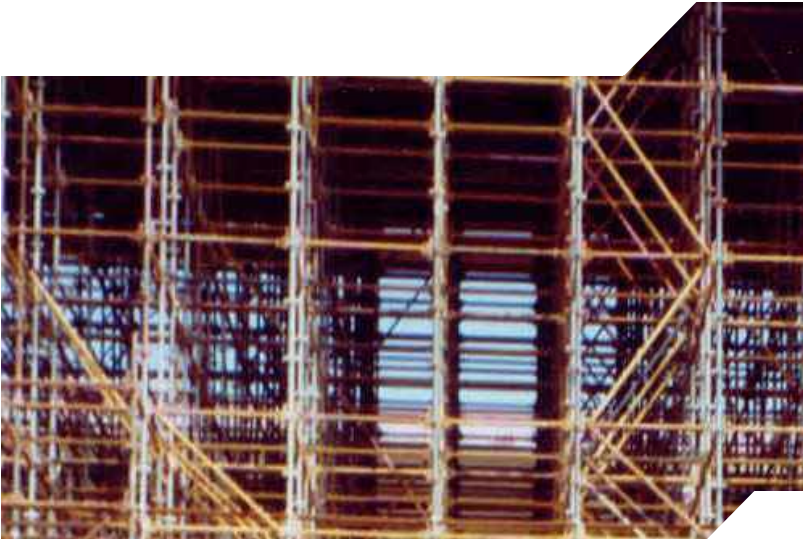
R·M·D
KWIKFORM

Bringing
Structures
to life



PRODUCT BROCHURE

Kwikstage
Access & Falsework



Our Experience & Expertise

Kwikstage is one of the most universally established scaffolds throughout the world. Used for access and falsework applications, it's the inherent simplicity that makes Kwikstage a versatile, efficient and cost effective alternative to traditional loose props and tube & fitting scaffolds.

It's the result of over 60 years of experience gained on major projects throughout the world. What's more, our network of local branches means when you deal with RMD Kwikform, you talk to people who understand the working environment, technical difficulties and challenges facing you.

The RMD Kwikstage system can be broken up into two main categories of use throughout South Africa:

- a) Access Scaffolding Application
- b) Falsework Applications





Access Applications

Kwikstage access scaffolding can be used for new build, as well as repair and maintenance projects:

- Commercial
- Residential
- Housing
- Industrial
- Leisure
- Stadiums
- Shipbuilding
- Civil
- Utilities



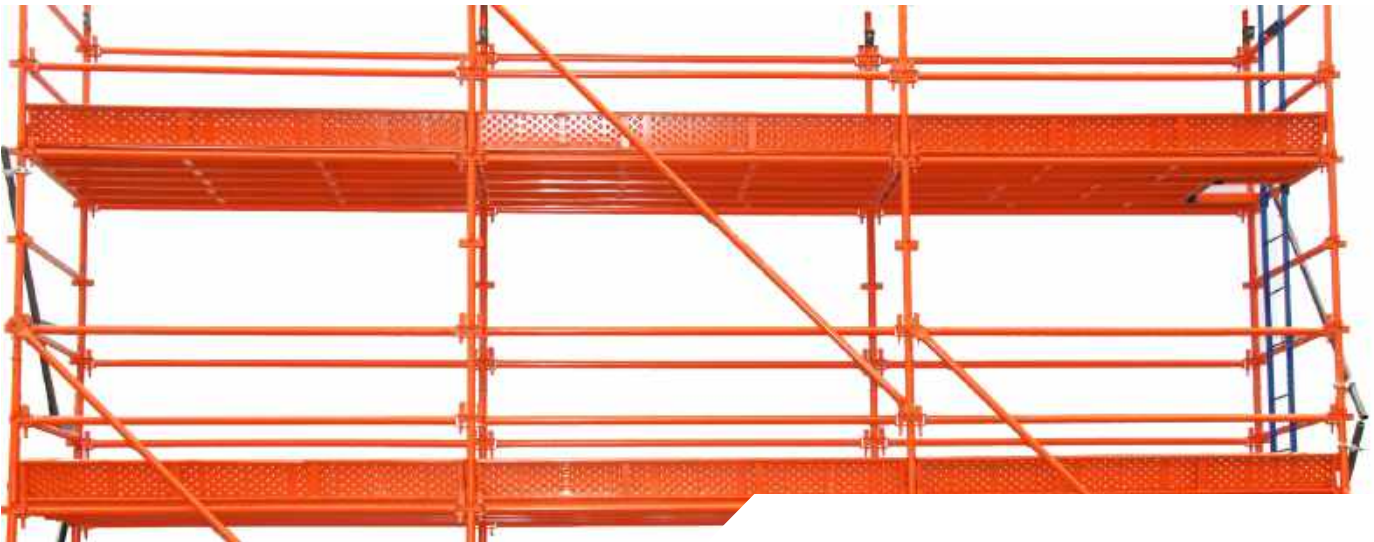


Falsework Applications

Kwikstage propping and decking is a highly versatile, competitive slab formwork system capable of being used in many applications including:

- Commercial buildings
- Shopping malls
- High rise residential apartments
- Airport terminals
- Light industrial slabs
- Bridge decks





Features & Benefits

Kwikstage Access

- Quick and easy to erect – ledgers and transoms are fixed to the vertical standards using captive wedge connections.
- No loose fittings – captive connector means reduced losses and increased productivity compared to traditional tube and fitting scaffold.
- Adaptability – Kwikstage will allow the user to follow most building profiles by just using the basic components.
- Simple erection procedures ensure stringent safety levels can be easily achieved.
- A comprehensive range of accessories for handrails, board stage brackets, staircase towers and loading bays, providing safe and secure access at all times.
- Simple to maintain – most connections are by wedges leading to longer product life and minimum service costs.





Features & Benefits

Kwikstage Falsework

- Quick and easily installed system, enabling early removal of Kwikstage deck beams and Kwikstage deck panels, saving time and cost.
- Variable ledger positions to suit leg loading, increasing flexibility of the system.
- Braces fit to the standards using scaffold tubes and swivel couplers.
- Simple erection procedures ensure stringent safety levels can be easily achieved.
- As an alternative to steel decking and infill beams, Kwikstage Falsework can also be used in conjunction with RMD Kwikform GTX and Plywood for soffit support to slabs of all depths.
- Regular shape ensures ease of erection
- Versatile height and width configuration
- Light weight and easy to handle



Components

Column Formwork

Kwikstage C Type Column Side



Code	Description	Weight
CCJ30005	3000x600	91.0
CCJ30010	3000x450	70.0
CCJ30015	3000x300	55.0
CCJ30038	3000x350	57.09
CCJ30020	3000x230	48.0
CCJ33230	3300x230	58.8
CCJ33450	3300x450	72.0
CCJ33450	3300x450	72.0

Circular Column



Code	Description	Weight
CCJ10005	Circular column 3000 x 600	205.00
CCJ10009	Circular column 3000 x 400	147.00
CCJ10010	Circular column 3000 x 450	147.00
CCJ10015	Circular column 3000 x 300	120.00
CCJ10019	Circular column 3000 x 900	288.00
CCJ10020	Circular column 3000 x 230	110.00
CCJ10021	Circular column 3000 x 500	740.00
CCJ10022	Circular column 2200 x 350	97.60
CCJ10023	Circular column 2300 x 350	101.15
CCJ10024	Circular column 2400 x 350	104.70
CCJ10025	Circular column 1000 x 4165	522.40
CCJ10025	Circular column 4165 x 1000	636.87
CCJ10090	Circular column 1000 x 900	97.00
CCJ10363	Circular column 3600 x 300	136.00
CCJ10366	Circular column 3600 x 600	216.00
CCJ10370	Circular column 3700 x 500	115.00
CCJ10396	Circular column 3900 x 600	234.00

PMI Wedge



Code	Description	Weight
CCJ20005	PMI Wedge	0.05

Economy Wedge



Code	Description	Weight
ECJ10005	Economy Wedge	0.05
ECJ10010	Economy Clip	0.05

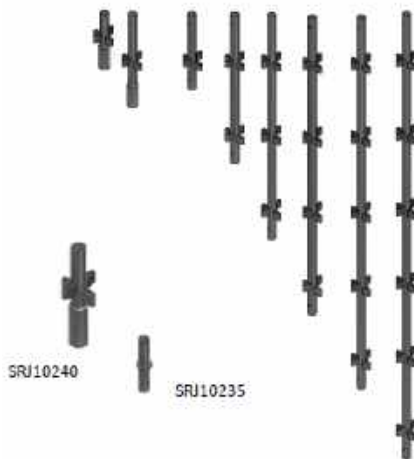
Kwikstage External Corner Angle



Code	Description	Weight
ECJ10044	800x50x50	3.39
ECJ10045	3000x50x50	10.0
ECJ10048	2500x50x50 PMI	9.10
ECJ10049	600x50x50	2.26
ECJ10100	1000x50x50	3.16
ECJ10135	350x50x50	1.5
ECJ10200	2000x50x50	7.3
ECJ10500	1500x50x50 PMI	5.56
ECJ10600	6000 x50x50	18.9

Shoring and Access

Kwikstage Standard



Code	Description	Weight
SRJ10005	500	2.4
SRJ10010	1000	4.82
SRJ10015	1500	7.23
SRJ10020	2000	9.65
SRJ10025	2500	12.07
SRJ10030	3000	14.49
SRJ10235	Connector	0.40
SRJ10240	Jack Extension	3.26

Kwikstage Ledger



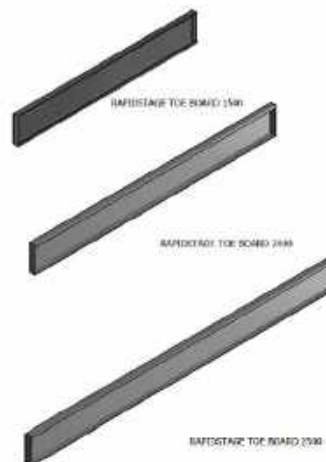
Code	Description	Weight
SRJ10100	1500	5.04
SRJ10103	1800	5.86
SRJ10105	2000	6.51
SRJ10110	2500	7.98
SRJ10115	1294	4.44
SRJ10120	1219	3.92
SRJ10125	900	3.28
SRJ10130	1000	3.5
SRJ10140	600	3.0

Kwikstage Steelboard Series



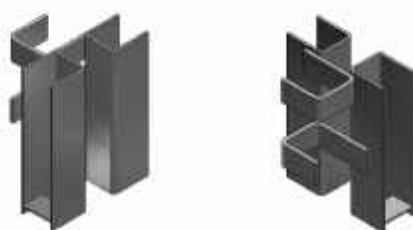
Code	Description	Weight
SRJ10310	2500	17.8
SRJ10305	2000	15.4
SRJ10310	1500	10.6
SRJ10312	1294	9.5
SRJ10315	900	5.5

Kwikstage Toeboard Series



Code	Description	Weight
SRJ10314	1500	8.7
SRJ10244	2000	11.6
SRJ10246	2500	14.3
SRJ11294	1294	7.51

Kwikstage Toeboard Clip



Code	Description	Weight
SRJ10245	Toeboard Clip	2.17

Kwikstage Staircase



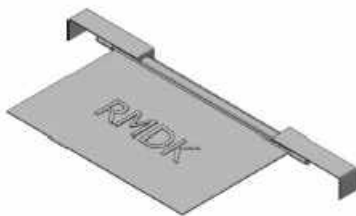
Code	Description	Weight
SRJ10500	2500x2000	110.00

Kwikstage Staircase Handrail



Code	Description	Weight
SRJ10505	Staircase Handrail	43.65

Kwikstage Trapdoor



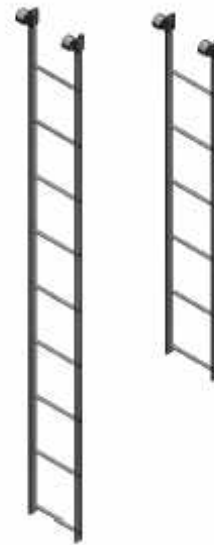
Code	Description	Weight
SRJ10425	Trapdoor	22.0

Kwikstage Base Jack



Code	Description	Weight
SRJ10205	Base Jack	3.77
SRJ10207	Base Jack 300	3.77
RRJ40032	Base Jack Solid 457 R/O	8.3

Kwikstage Steel Ladder Series - Hook On



Code	Description	Weight
SRJ10410	Hook on Ladder 2m	16.5
SRJ10412	Hook on Ladder 3m	26.0
SRJ10408	Access Ladder 1000	11.19

Kwikstage Connectors

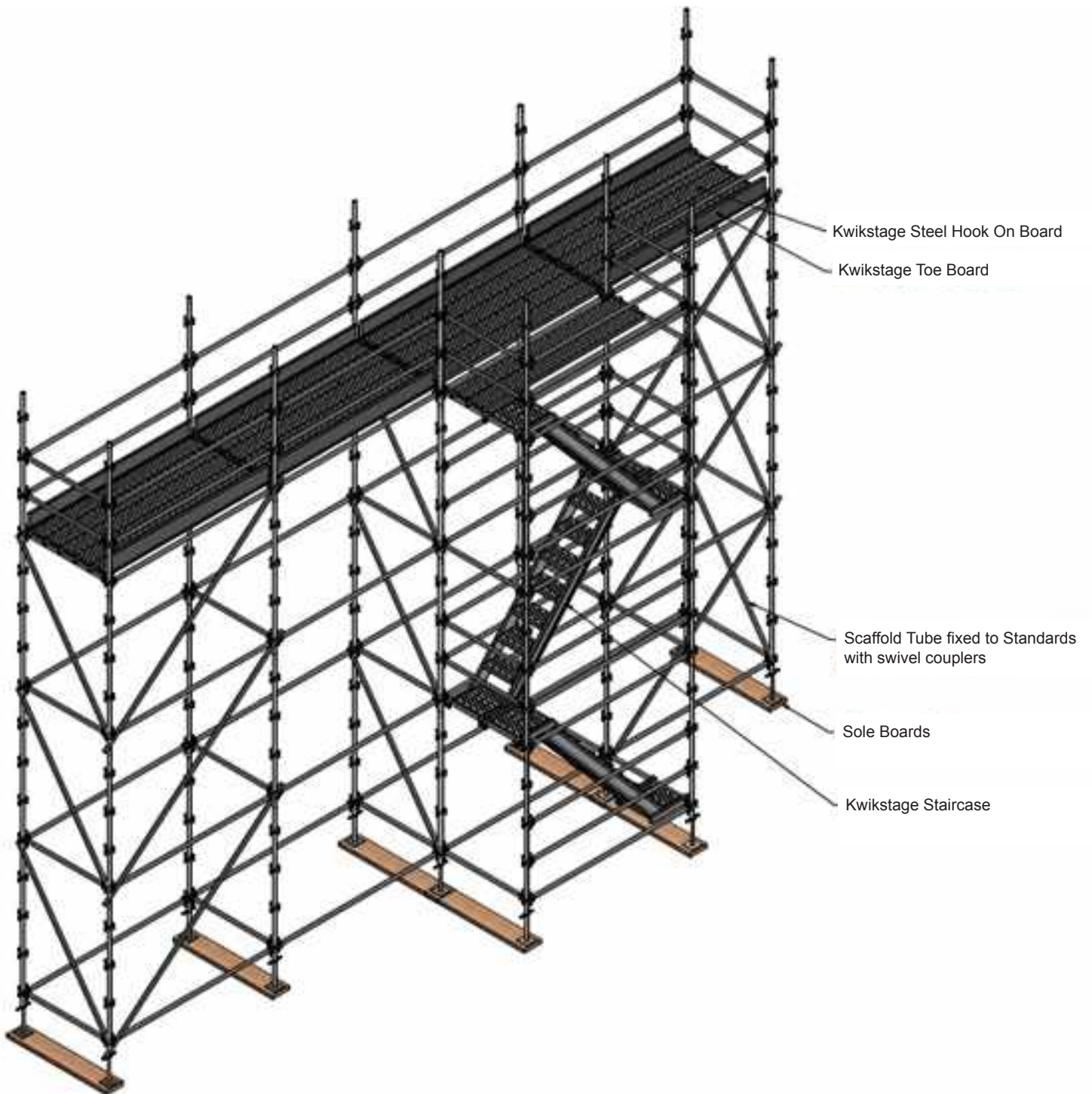


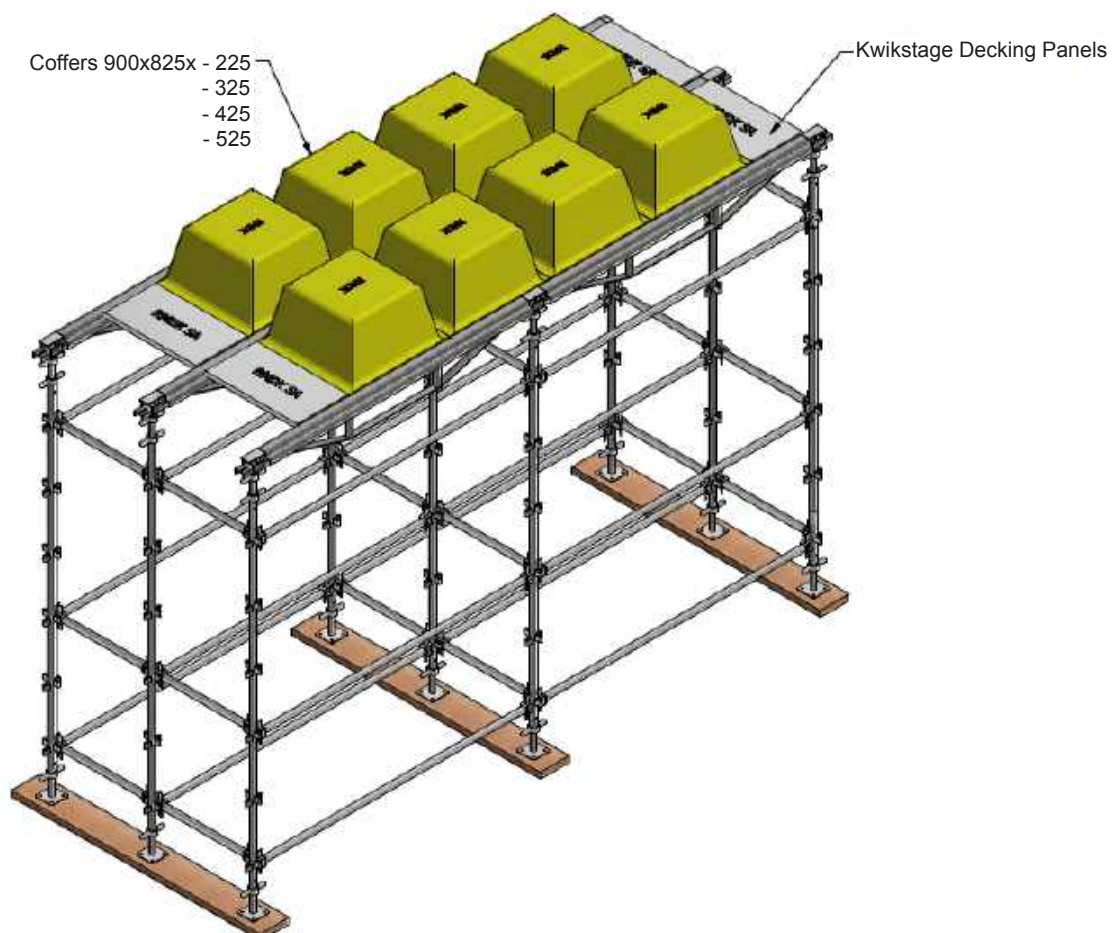
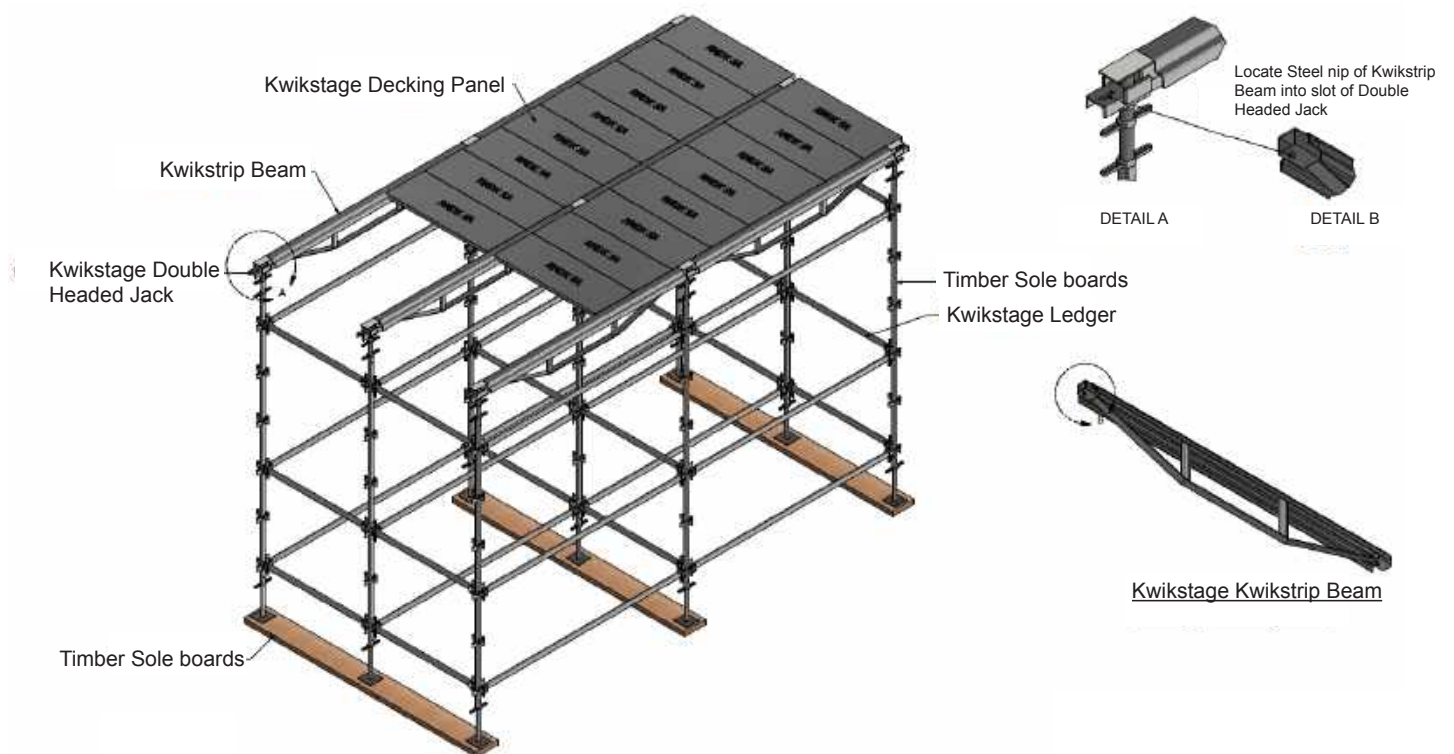
Code	Description	Weight
SRJ10235	Connectors	0.4

Kwikstage Base Plate

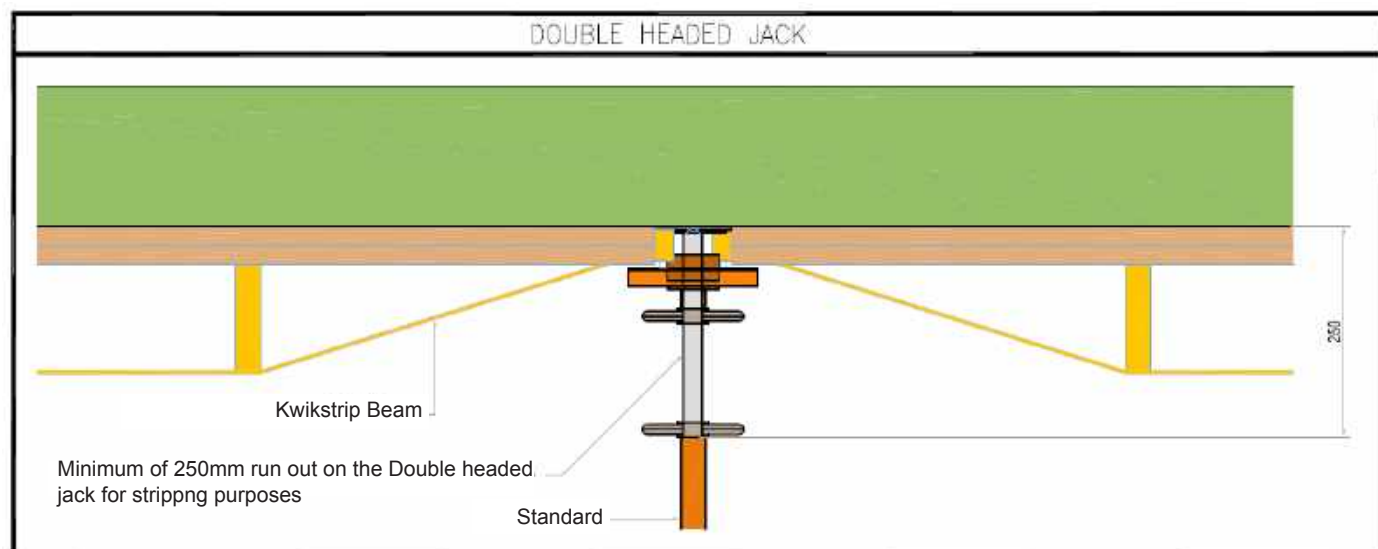


Code	Description	Weight
SRJ10506	Base Plate	1.5





Shoring / Formwork



Kwikstage Double Headed Jack



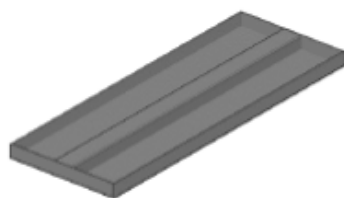
Code	Description	Weight
RRJ40025	Double Headed Jack r/o	7.7

Kwikstrip Beam



Code	Description	Weight
RRJ10005	Kwikstrip Beam 2500	28.45
RRJ10010	Kwikstrip Beam 2000	23.75
RRJ10015	Kwikstrip Beam 1500	17.04
RRJ10020	Kwikstrip Beam 900	9.0
RRJ10018	Kwikstrip coined beam 1294	16.10

Kwikstrip Deck Panel



Code	Description	Weight
RRJ20005	Deck panel 1219 x 457	3.25
RRJ20010	Deck panel 1219 x 305	3.98
RRJ20015	Deck panel 825 x 450	4.62
RRJ20020	Deck panel 825 x 300	5.14

Kwikstage Folded Section



Code	Description	Weight
RRJ30005	Folded section 1200	8.5
RRJ30010	Folded section 900	6.31

Kwikstage Cantilever Bracket



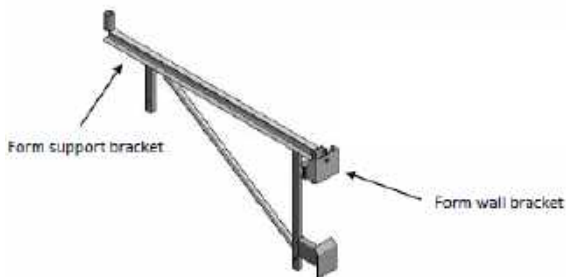
Code	Description	Weight
SRJ10420	Cantilever Bracket 900	9.8

Kwikstage Fork Head and U-Head Jacks



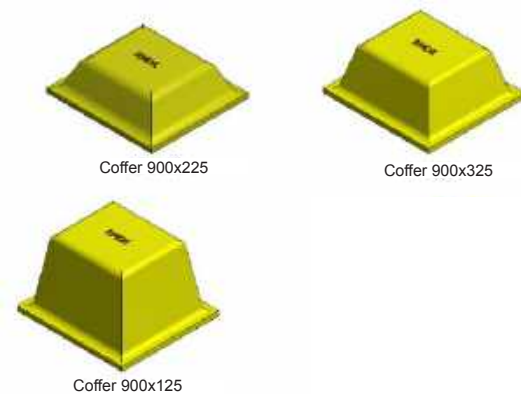
Code	Description	Weight
SRJ10210	Fork Head Jack	11.26
RRJ40035	U Head Jack	5.3
SRJ10215	Rapidstage U-head spigot	0.88

Kwikstage Form Support Bracket



Code	Description	Weight
BTJ10201	Form Support Bracket	25.74
BTJ10202	Form Wall Bracket	4.5

Kwikstage Coffers



Code	Description	Weight
RRJ40005	Coffer 900x825x425	20.95
RRJ40010	Coffer 900x825x325	18.22
RRJ40015	Coffer 900x825x225	15.3
PAJ10017	Coffer Pallet	73.21

Bracing & Lacing

Bracing

Bracing is used to afford stability (avoid sway or sideways movement) for the falsework and formwork.

It is installed to transfer horizontal forces to the ground or to stable permanent structures. These horizontal forces may be transferred from bracing to other member (such as Kwikstage Ledgers, lacing etc.) which in turn transfer the forces to other braced bays of supportwork.

The forces resisted by bracing can result from:

- Wind
- Water
- Erection tolerances such as Standards erected out of plumb
- Concrete pressures and placing of concrete
- Movement (workers, dumpers....)
- Permanent structures

The following must be taken into consideration:

- The location of the site
- Terrain (exposure to wind)
- The face area of the falsework and formwork
- The method of placing concrete
- Stability offered from existing structures

The bracing is usually comprised of scaffold tube and couplers.

For bracing to be most effective it is fixed to the Standards.

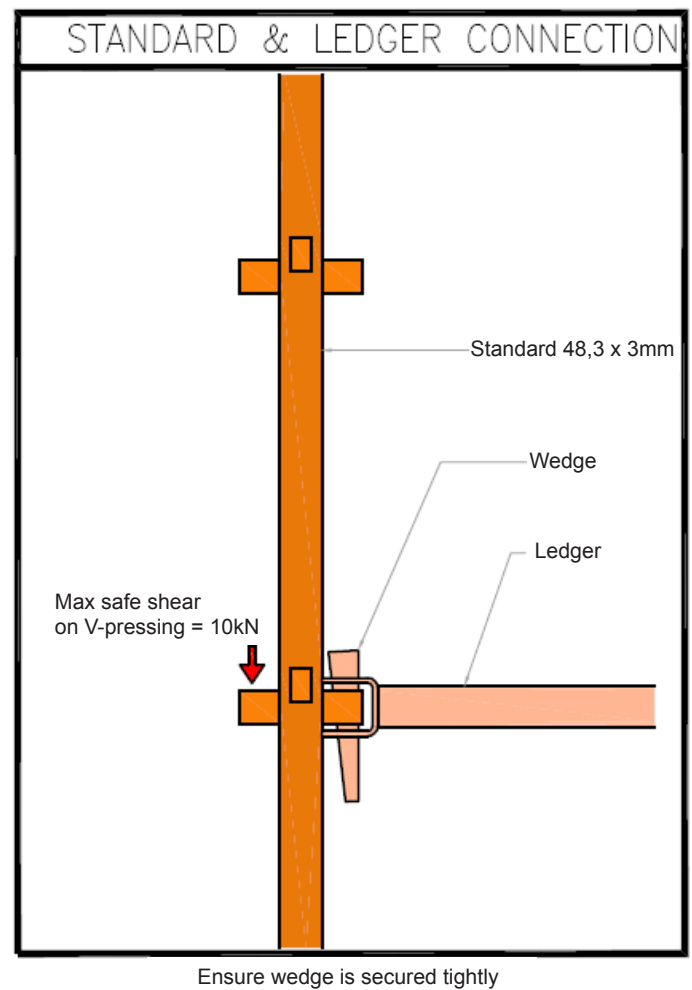
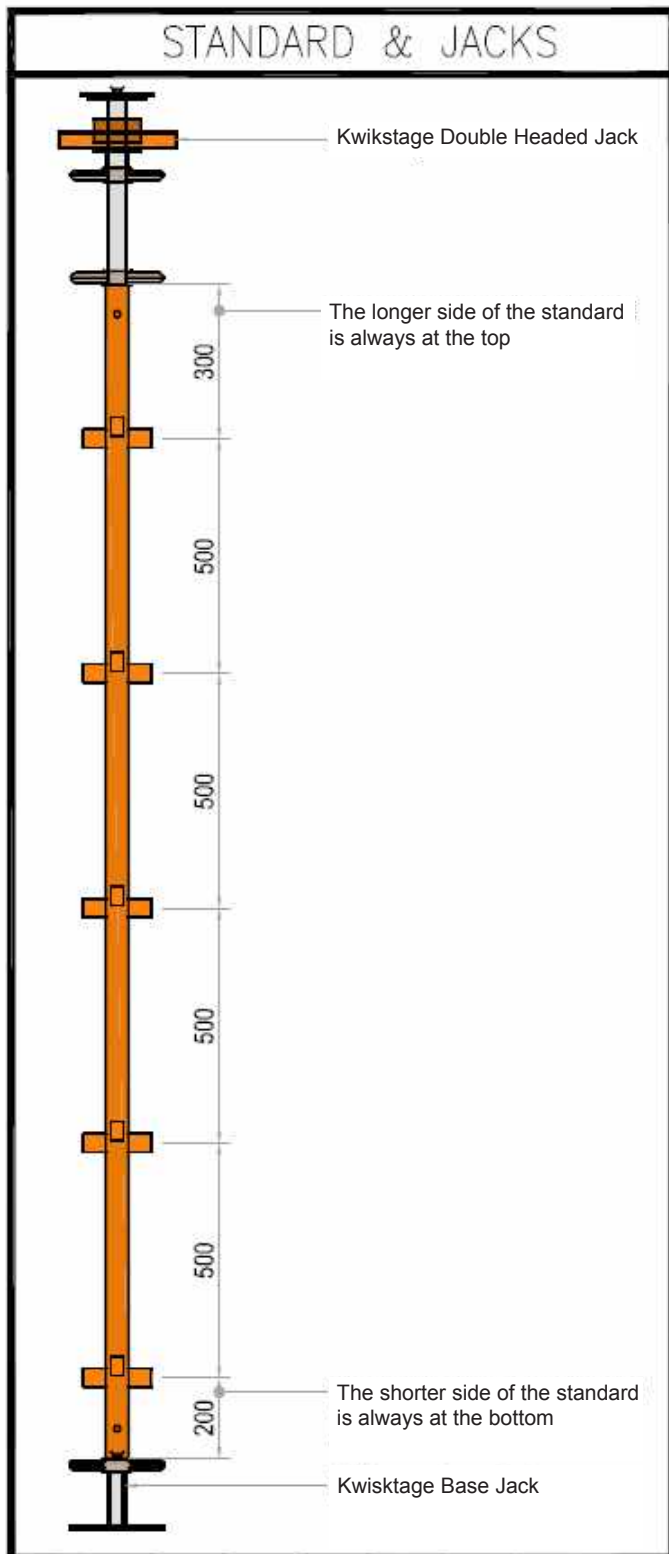
In system support work, the bracing should be fixed to the Standards, at 45 degrees, within a maximum of 150mm from the node point.

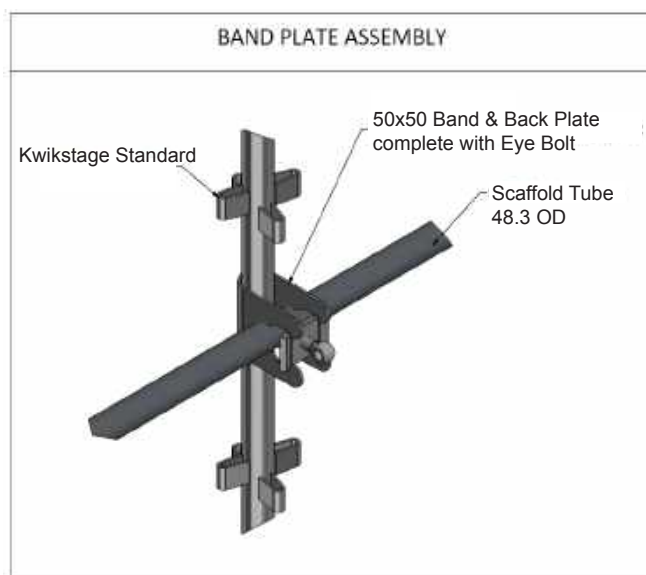
Bracing should be installed as the falsework is erected.

This will:

- Afford stability to the falsework at each erection phase and create a safe temporary structure for the site workers.
- Assist with the correct positioning/vertically of the components.

All braces to be installed as per RMDK Drawings.





Kwikstage Band Plate

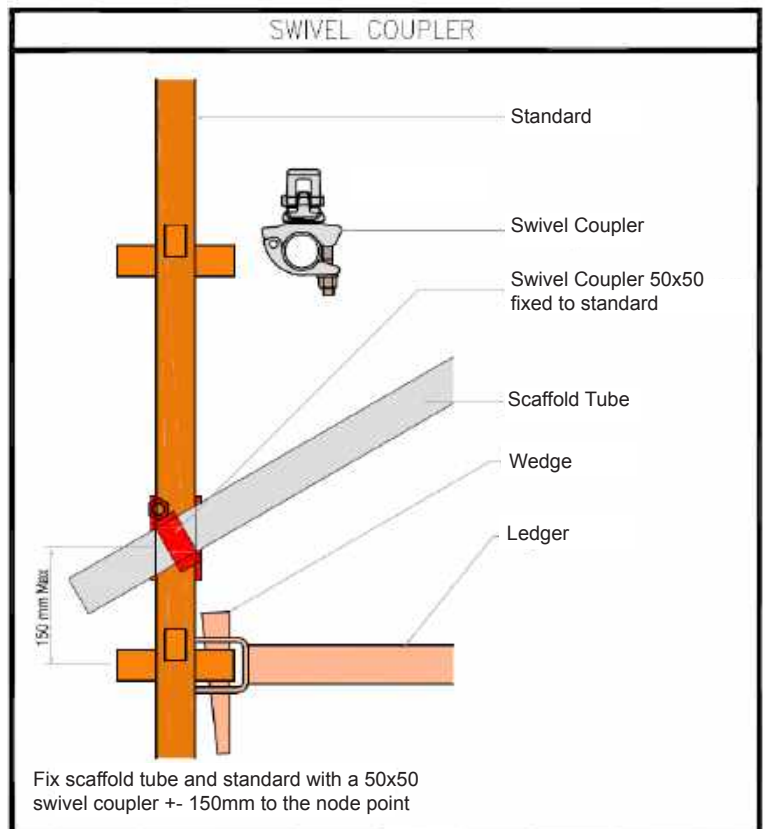


Code	Description	Weight
SFJ10005	50 x 50 Band Only	2,4
SFJ10010	Backplate & Eyebolt for band	0,5

Kwikstage Diagonal Brace



Code	Description	Weight
SRJ10405	DiagonalBrace 2500x2500	17.29



Kwikstage B and C Clamps



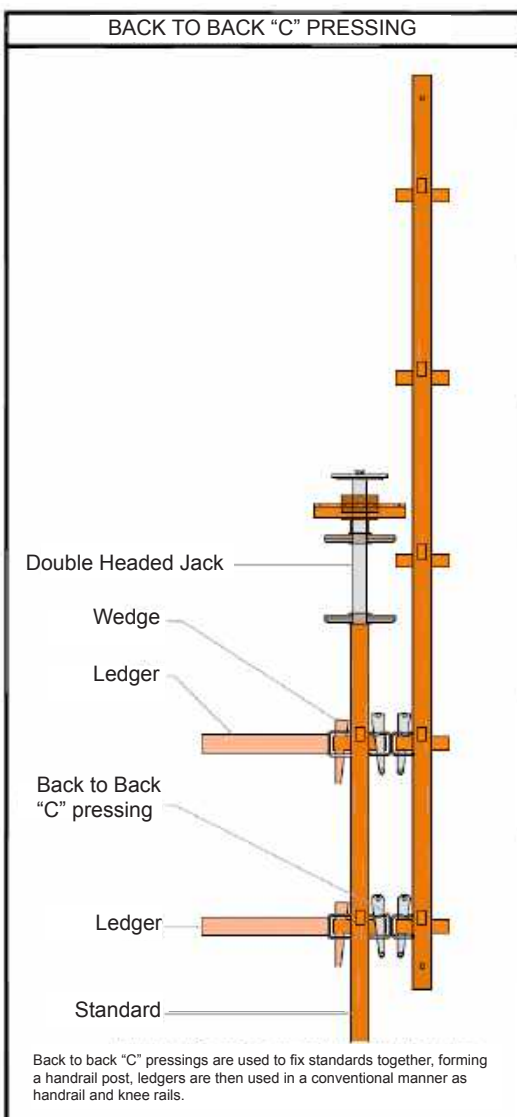
Code	Description	Weight
RPX10005	B Clamp (with scaff tube)	0.66
RPX10006	C Clamp (with 100 x 50) 50mm longer channel prongs than B Clamp	1.08

Couplers



Code	Description	Weight
SRJ10510	90 Degree Coupler	1.10
SRJ10225	Swivel Coupler	1.40
SRJ10227	Swivel Coupler 50x60	1.20

Safety



Kwikstage Back to Back C Press



Code	Description	Weight
SRJ10507	C Back to Back Pressing	1.14
MNJ10005	C Pressing	0.58

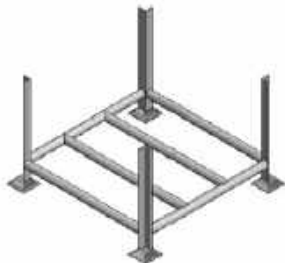
Kwikstage LD Handrail Clamp



Code	Description	Weight
SRJ10520	Light Duty Handrail Clamp	7.0

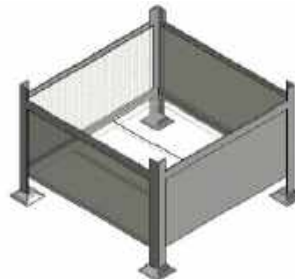
Miscellaneous

Kwikstage Pallet



Code	Description	Weight
PAJ10015	Pallet	30

Kwikstage Stillage



Code	Description	Weight
PAJ10016	Stillage	48,94

Stop End Bracket



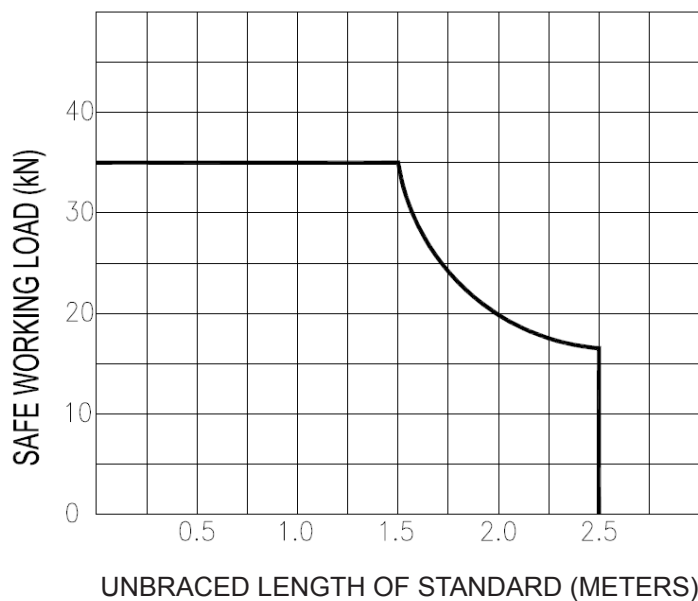
Code	Description	Weight
SRJ10090	Stop end bracket 90 deg	2.83

Technical Data

Please note: For Access scaffolding, guidance can be obtained by referring to SABS10085-1. (The design erection and inspection of access scaffolding).

Falsework/Shoring loading guides

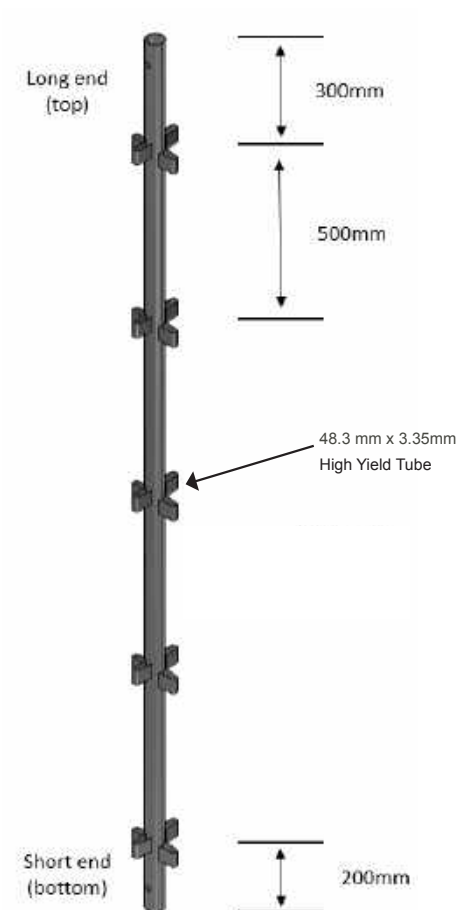
1. Standards



Factors of safety on failure = 2.0

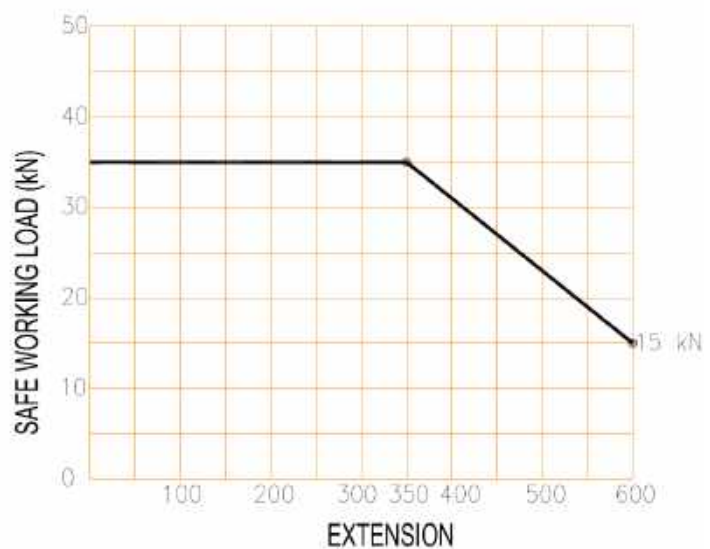
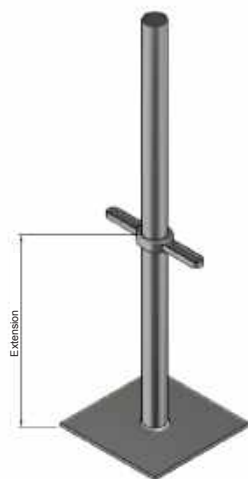
*Max safe shear load on each

V-Pressing is 10kN

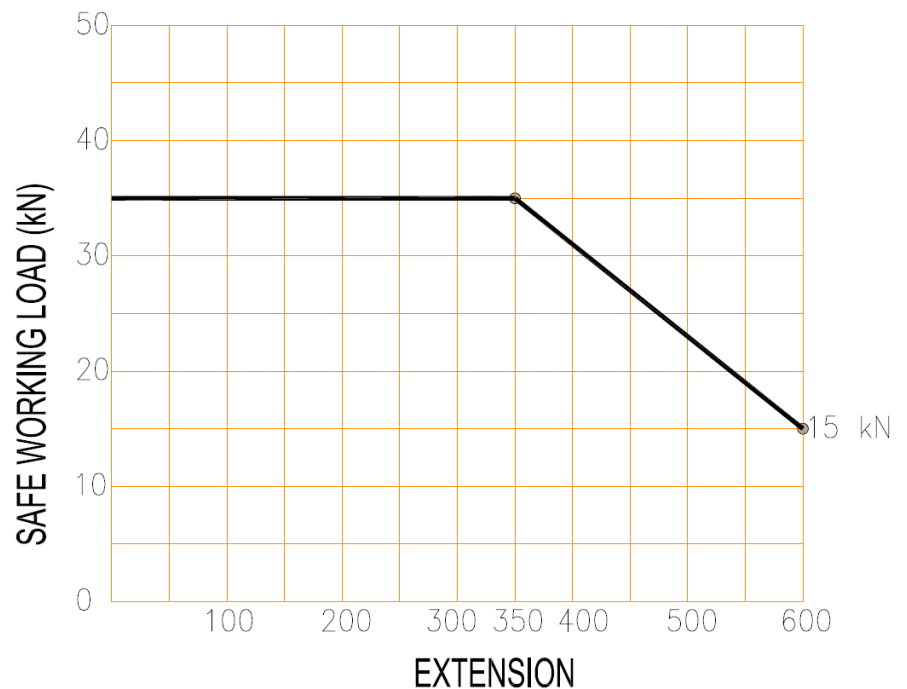


Note: Data based on braced/tied externally system

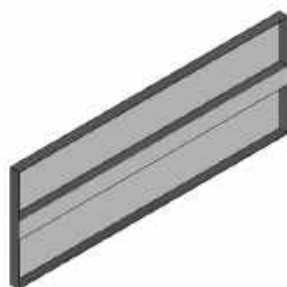
2. Base Jack



3. Double Headed Jack

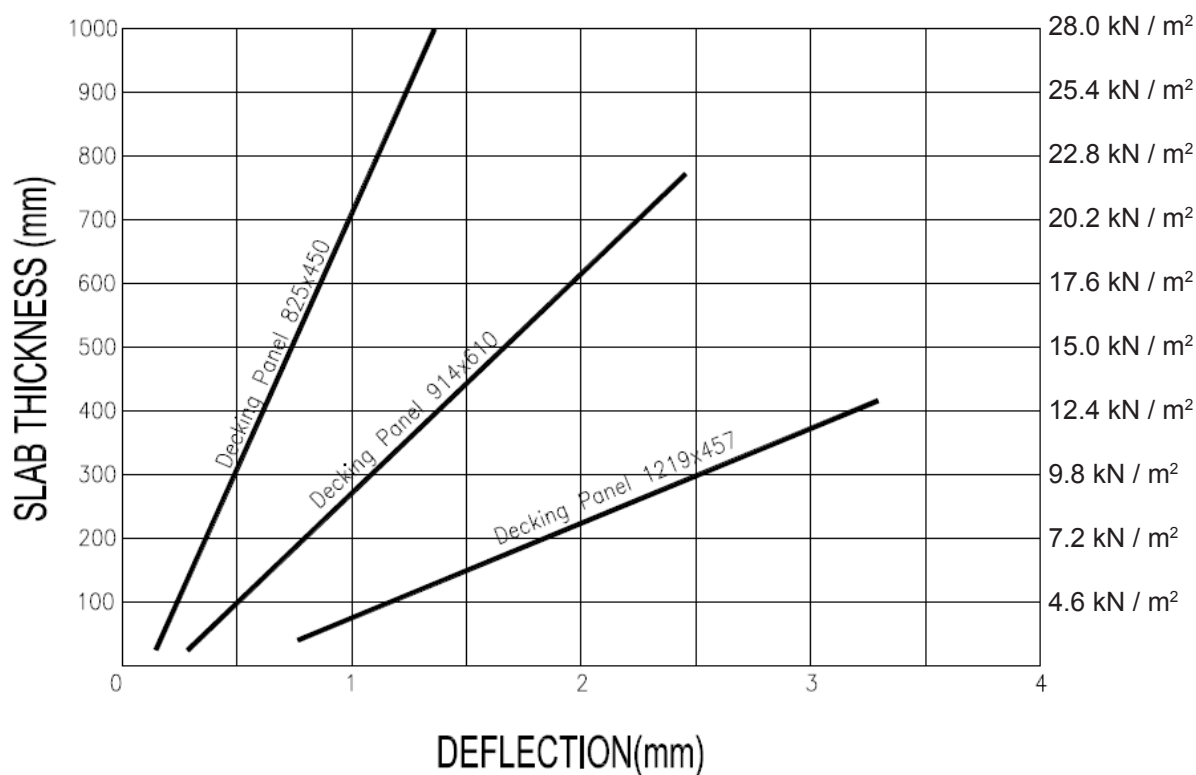


4. Decking Panels



User Points

- Deck Panels are precision manufactured with emphasis placed on squareness
- Corners of the panel face are drilled for nailing to the support bearers.
- Deck panels are manufactured to work in conjunction with coffers and troughs.
- Off shutter finish will only be obtained with new equipment.



Note:

All loadings are based on 2.5mm faceplate
& 2.5mm Folded channel stiffener. Recommended
maximum deflection are span/360

5. Couplers



Code	Description	Weight
SRJ10225	Swivel Coupler	1.4
SRJ10227	Swivel Coupler 50 x 60 Safe working load 6.25kN Clamps scaffold tube at any angle.	1.2



SFJ10005 and SFJ10010	50 x 50 Band, Backplate & Eyebolt Safe working load 6.25kN. Clamps scaffold at right angles.	2.9
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6. Scaffold Pipe for Bracing



Scaffold tube is 48.3 mm OD x 3.35mm high tensile tube.

Can be supplied in pre-determined lengths either straight or radiused.

Maximum length 6100mm

Radiusing of tube can be done in our yards.

Max moment of resistance = 1.4kN

Max shear resistance = 39kN

ERECTION PROCEDURE



1

Two operatives place ended standards over base jacks that have been pre-adjusted to approximately the correct height.

The operations then hold the standards/bases vertical and insert a ledger/propping tie into the lowest set of pressings on the standard (they do not fully tighten the captive wedges at this point).



2

The operatives then construct the frame inwards and, whilst holding it with one hand, attach propping ties into the first set of pressings at the bottom of the standard. The frame is now self supporting.



3

The operatives then each prepare another leg (standard & base) and connect these to the free ends of propping ties protruding from the initial frame.



4

The first unit of the grid is completed by tying the legs to one another with propping ties to the required set of pressings on the standards and leveling-off squaring up. Once this is completed, wedges are hammered up tight. Always refer to RMD Kwikform design drawing.



5

Place diagonal bracing to the tower as required by the RMD Kwikform drawing. Ensure the tower is vertical and square prior to tightening the couplers.



6

Continue erecting the lower standards in a similar way adding bracing as required by the RMD Kwikform Drawing.



7

Once the bottom lift is complete, place scaffold boards on the top propping tie (using intermediate board supports where required) to provide a platform to erect the next level of standards.



8

At all times operatives should comply with local safety regulations by either using approved fall arrest equipment or by providing temporary guardrails as shown.

Continue erecting remaining levels of standards and propping ties in accordance with the RMD Kwikform drawing.



9

Move or extend the working platform to the remaining areas and erect upper levels of standards and propping ties



10

Working from the boarded platform, adjust the Adjustable U-Heads to approximate required jack extension and insert into the top level of open ended standards.



11

Working from the established boarded platform, insert primary beams into the centre of the U-Head. Twist the U-Head and insert wedges to ensure the primary beams are central.



12

Erect the secondary beams and fix to the Primary Beams using a minimum of 2 GTX Cleats per secondary beam.



13

Place the plywood and secure to secondary beams using suitable screws or nails. Erect perimeter guardrails and toe boards to comply with local safety regulations.

Notes

Notes

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Our policy is one of continuous improvement and we reserve the right to change, alter or modify any detail, design, weight, dimension or code without prior notice being given.

The arrangements of equipment shown in photographs may have been assembled by others and therefore not reflect best working practices or legislation requirements.

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