



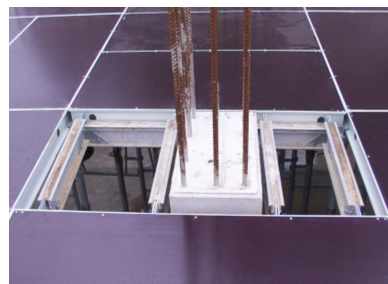
RMD
KWIKFORM

AIRODEK

LIGHTWEIGHT SOFFIT SYSTEM

Technical Data Sheets

Metric Specification



Global Data (Excluding USA, Australia & New Zealand)

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Contents




Ref	Description	Hyperlink	Page
	Contents		2-6
	Contents		2-5
	Introduction		6
1.0	Components and Load Capacities		
1.1	Airodek Prop & Panel System		7-31
ADX18090	Airodek Panel 1800 x 900mm - Plywood		8
ADX18060	Airodek Panel 1800 x 600mm - Plywood		8
ADX18030	Airodek Panel 1800 x 300mm - Plywood		8
ADX09090	Airodek Panel 900 x 900mm - Plywood		8
ADX09060	Airodek Panel 900 x 600mm - Plywood		8
ADX09030	Airodek Panel 900 x 300mm - Plywood		8
ADX18091	Airodek Panel 1800 x 900mm - Composite		8
ADX18061	Airodek Panel 1800 x 600mm - Composite		8
ADX18031	Airodek Panel 1800 x 300mm - Composite		8
ADX09091	Airodek Panel 900 x 900mm - Composite		8
ADX09061	Airodek Panel 900 x 600mm - Composite		8
ADX09031	Airodek Panel 900 x 300mm - Composite		8
	Applications: Additional panel capacity with ply lining.		9
ADX20005	Airodek Prop for 2150-3520mm		10
ADX20015	Airodek Steel Crown		11
RSX10009	Rapidshor Sleeve Clip		11
ADX20012	Airodek Load Release Prop Pin		11
ADX20007	Airodek Spacing Gate 1800mm		12
ADX20006	Airodek Spacing Gate 900mm		12
ADX20008	Spacing Gate Leg		12
	Applications: Airodek Prop & Panel System Spacing Gates - Typical Details		13
ADX40500	1800 x 600-900mm Telescopic Panel		14
ADX40501	900 x 600-900mm Telescopic Panel		14
	Applications: Infill at Perimeter Walls		15
ADX20033	Airodek Triangle Panel 1800 RH - Plywood		16
ADX20028	Airodek Triangle Panel 1800 LH - Plywood		16
ADX20034	Airodek Triangle Panel 900 RH - Plywood		16
ADX20029	Airodek Triangle Panel 900 LH - Plywood		16
ADX40007	Airodek Triangle Panel 1800 RH - Composite		16
ADX40003	Airodek Triangle Panel 1800 LH - Composite		16
ADX40008	Airodek Triangle Panel 900 RH - Composite		16
ADX40004	Airodek Triangle Panel 900 LH - Composite		16
	Applications: Airodek Triangular Panels - Typical Details		17

Note: Clicking the Altrad logo in the top left hand corner of any page will bring you back to this Contents page

Contents




Ref	Description	Hyperlink	Page
Components and Load Capacities....Continued			
ADX20003	Airodek Infill Support 1800mm		18
ADX20004	Airodek Infill Support 900mm		18
ADX20011	Airodek Crown Timber Support Bracket		19
	Applications: Infill at Columns Falling in One Panel		20
	Applications: Infill at Columns Falling in Two Panels		21
	Applications: Infill at Perimeter Walls		22
ADX20600	Airodek GTX Infill Beam 600mm		23
ADX20900	Airodek GTX Infill Beam 900mm		23
ADX21200	Airodek GTX Infill Beam 1200mm		23
ADX21500	Airodek GTX Infill Beam 1500mm		23
ADX21800	Airodek GTX Infill Beam 1800mm		23
GTX12400	GTX Beam 2400mm		23
GTX13000	GTX Beam 3000mm		23
	Applications: GTX Infill at Columns Falling in One Panel		24
	Applications: GTX Infill at Columns Falling in Two Panels		25
ADX20026	Airodek Infill Bracket		26
ADX20027	Airodek Support Block		26
	Applications: Infill at Perimeter Walls		27
	Applications: Example Showing Non-Standard Infills		28
ADX20051	Airodek Crown Ultraguard Socket		29
ADX20018	Airodek Crown Guardrail Socket		30
SAX10032	Ultraguard Slab Edge Socket		31
SAX11200	Ultraguard Post 1.2m		31
SAX12550	Ultraguard Barrier 2550mm		31
SAX13150	Ultraguard Barrier 3150mm		31
AGX40062	Anchor Screw RT15x150		32
SAX10033	Anchor Screw RT15x150 Setting Bolt		32
AGX40067	Anchor Screw RT15x150 Hexagon Washer		32
ADX20013	Airodek Assembly Prop		33
RCX10008	Rapidclimb Ratchet Lashing 12m		34
FXX10008	Flexidek Tie Down Connector		34
	Applications: Horizontal Restraint - Prop & Panel		35
1.2	Airodek Prop & Panel XL System		36-47
ADX18180	Airodek XL Panel 1800 x 1800mm - Composite		37
ADX40502	Airodek XL Panel 1800 x 1800mm - Plywood		38
PRX10005	E35 EuroProp 2.02m - 3.5m Galv		39
PRX10006	E40 EuroProp 2.32m - 4.0m Galv		40
ADA10050	Airodek Prop Adapter		41
ADX20053	Airodek Half Crown - EuroProp		41
ADX20054	Airodek Nipping Beam		41
ASX10060	Alshor Plus Leg Tripod		42
PRM00011	HD Tripod 870mm high Galv		42
	Applications: 1800x900 HD Aluminium infill at Columns		43

Contents

Ref	Description	Hyperlink	Page
Components and Load Capacities....Continued			
	Applications: 1800x1800 HD Aluminium infill at Columns		44
	Applications: 1800x900 HD GTX Infill at Columns		45
	Applications: 1800x1800 HD GTX Infill at Columns		46
	Applications: Airodek XL Prop & Panel System - Tripod Layout - Typical Details		47
1.4	Airodek Launching System		48-56
ADX40507	Airodek Launching Alform Beam		49
ADX20052	Airodek Launching Ultraguard Socket		49
ADX40506	Airodek Launching Tie Down Bracket		49
ADX40505	Airodek Launching Prophead		50
ADX40508	Airodek Panel Slider Shoe L.H.		50
ADX40509	Airodek Panel Slider Shoe R.H.		50
PRX10900	HD Prop Spacing Gate 900mm		51
PRX11200	HD Prop Spacing Gate 1200mm		51
PRX11500	HD Prop Spacing Gate 1500mm		51
PRX11800	HD Prop Spacing Gate 1800mm		51
PRX12400	HD Prop Spacing Gate 2400mm		51
ADX20008	Spacing Gate Leg		51
FAU10147	Excalibur 12 x 125mm Wetset Eyebolt		52
AGU20015	Galvanised Chain 8mm x 3050mm		53
AGU20013	Quicklink 10mm		53
AGU20016	10mm Turnbuckle 222-320mm		53
	Applications: Airodek Launching System - Typical Details		54
	Applications: Airodek Launching System - Erection Sequence		55-56
1.3	Airodek Decking System		57-62
ADX30009	Airodek Drophead Panel 1800 x 900mm - Plywood		58
ADX30006	Airodek Drophead Panel 1800 x 600mm - Plywood		58
ADX30003	Airodek Drophead Panel 1800 x 300mm - Plywood		58
ADX30010	Airodek Drophead Panel 900 x 900mm - Plywood		58
ADX30007	Airodek Drophead Panel 900 x 600mm - Plywood		58
ADX30004	Airodek Drophead Panel 900 x 300mm - Plywood		58
ADX40009	Airodek Drophead Panel 1800 x 900mm - Composite		58
ADX40005	Airodek Drophead Panel 1800 x 600mm - Composite		58
ADX40001	Airodek Drophead Panel 1800 x 300mm - Composite		58
ADX40010	Airodek Drophead Panel 900 x 900mm - Composite		58
ADX40006	Airodek Drophead Panel 900 x 600mm - Composite		58
ADX40002	Airodek Drophead Panel 900 x 300mm - Composite		58
ADX30005	Airodek Drophead Infill Plate		59
ADX31800	Airodek Decking Beam 1800mm		59
ADX32400	Airodek Decking Beam 2400mm		59



Contents

Ref	Description	Hyperlink	Page
Components and Load Capacities....Continued			
ADX33000	Airodek Decking Beam 3000mm		59
ADX10016	Airodek to Alshor Drophead		60
ADX30001	Airodek Drophead		61
ADX30002	Airodek Alshor Adapter		62
ADX10003	Airodek Rapidshor Adapter		62
ADX10011	Universal Adapter		63
ASX10066	Alshor - Airodek U-Head		63
ADX10014	Ultraguard Deck Beam Guardrail Socket		64
ADX20016	Airodek Deck Beam Guardrail Socket		64
ADX10019	Alshor Drophead Ultraguard Socket		65
ADX10004	Drophead Guardrail Socket		65
ADX20030	Airodek Panel Beam Clip		66
ADX10008	Airodek Panel Strap		66
ADX20038	Airodek Wind Restraint Clamp		67
	Applications: Airodek Decking System - Typical Details		68
PAX10018	Airodek 15 Panel Stillage Assembly		69
PAX10019	Airodek 15 Panel Stillage End Frame		70
	Applications: Aluminium Infill at Columns Falling in One Panel		71
	Applications: Aluminium Infill at Columns Falling in Two Panels		72
	Applications: GTX Infill at Columns Falling in One Panel		73
	Applications: GTX Infill at Columns Falling in multiple Panels		74-76
PAA10011	Superstacker Slip-on Caster Wheel		77
PAA10012	Superstacker Slip-on Fixed Wheel		77
	Applications: Typical Stacking Details		78
2.0	Design Data		79-99
3.0	Contact Details: International Offices		100

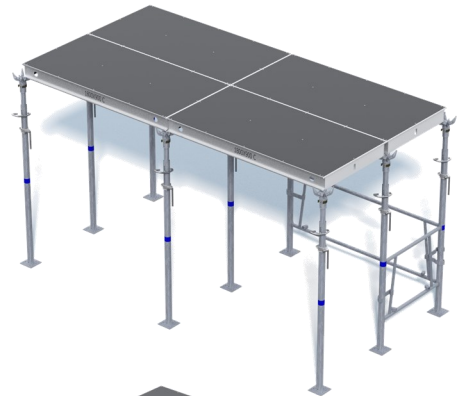
Introduction

RMD Kwikform Airodek soffit falsework is a lightweight, modular system that has been developed to provide the fastest construction cycle times on multi storey slabs with slab thicknesses up to 700mm with the minimum number and weight of components. Designed for easy assembly, transportation, storage and maintenance, the system comes in three variants; Prop & Panel, Prop and Panel XL and Decking with or without Dropheads.

Airodek equipment is mainly for use in laterally top-restrained applications only. For a full explanation of the stability requirements to ensure this condition refer to Applications Section 2.

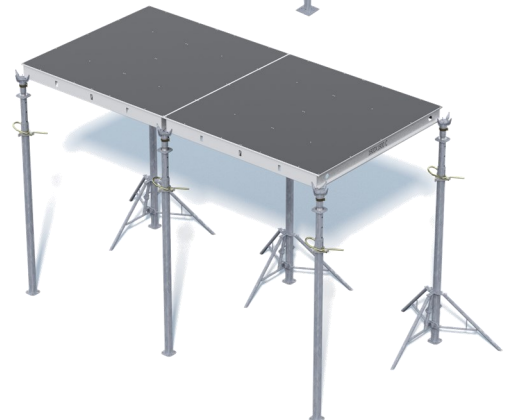
Prop & Panel

Airodek Panels up to 1800x900mm are supported by Airodek Standard Props topped by Airodek Crowns. Used for floor-soffit heights up to 3500mm, the whole system is struck once the concrete slab has sufficiently cured. The system can be erected and dismantled by a single operative.



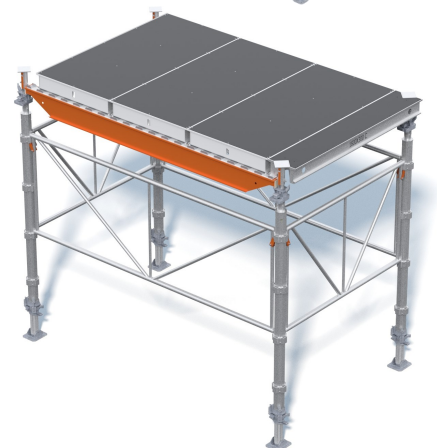
Prop & Panel XL

1800mm square panels are supported by EuroProps to EN1065 topped by adapters and Airodek Crowns resulting in a 50% reduction in the number of components and providing more clear space beneath the soffit facilitating the movement of plant and personnel. Used for floor-soffit heights up to 3.5m, the whole system is struck once the concrete slab has sufficiently cured. The larger panels require two operatives to handle them.



Decking without Dropheads

Airodek Panels are supported by Airodek Decking Beams and Airodek Crowns atop and adapted to Alshor Plus, Rapidshor or other system falsework, enabling a larger support grid up to 3000x1800mm. Floor to soffit heights over 3.5m can be accommodated and the whole system is struck once the concrete slab has sufficiently cured.



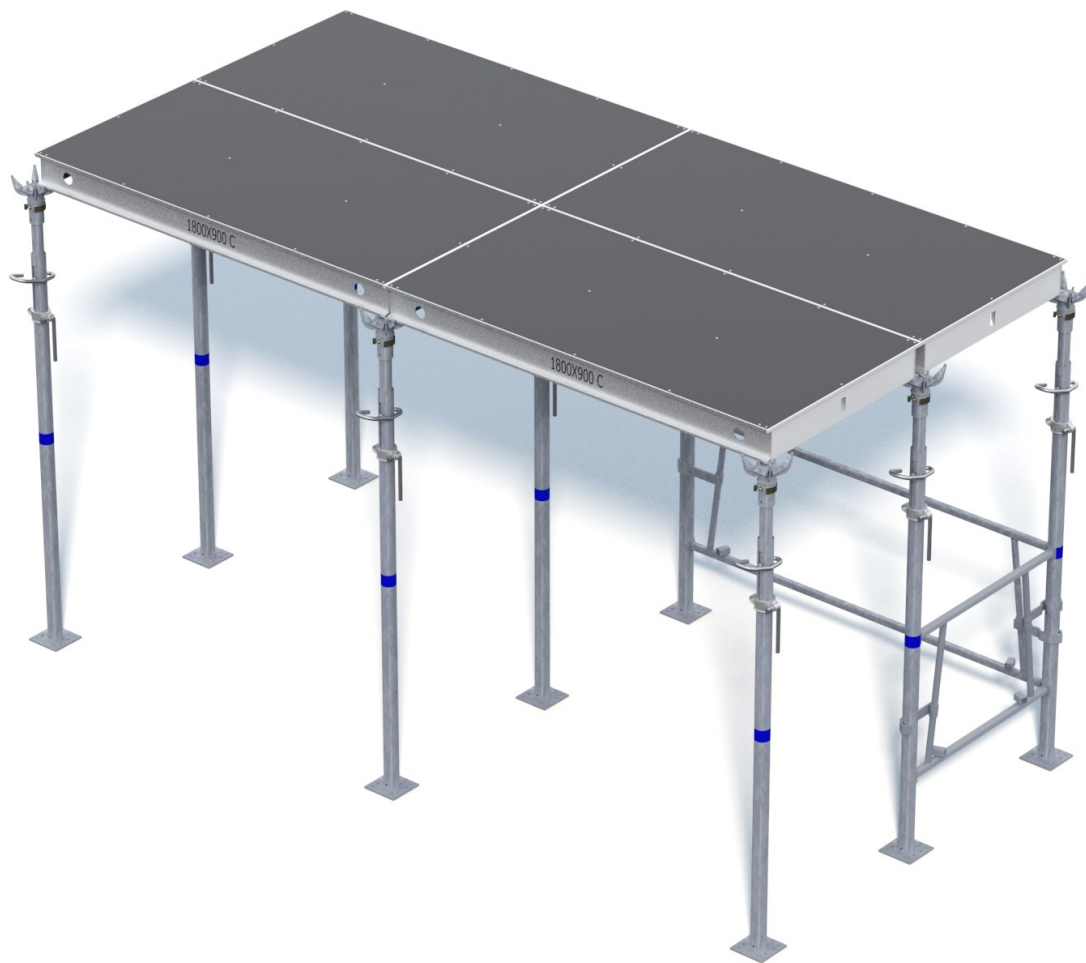
Decking with Dropheads

Similar to Decking without Dropheads, except the Airodek Crowns are replaced by Airodek Dropheads. This enables the panels and decking beams to be struck, lowered and removed, often the next day after concrete placement, whilst the falsework remains un-disturbed to support the maturing slab.

Design to EN Standards

RMD Kwikform Airodek has been designed in accordance with European and British Standards, supported where appropriate by finite element analysis and load testing. To facilitate a simplified scheme design using established permissible load methods, load performance data in this document is displayed as an 'Allowable Working Load'. Should Limit State Design be required, the Design Resistance may be obtained by multiplying the Allowable Working Load by 1.5.

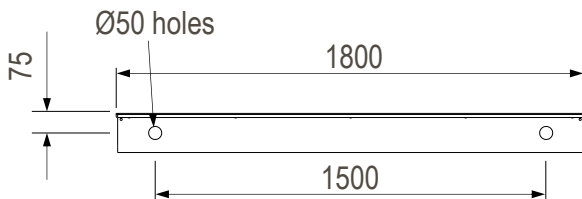
Airodek Prop & Panel



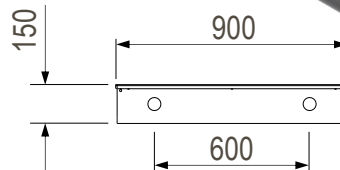
Airodek Panels

Manufactured from a welded, lightweight, powder coated, aluminium extruded frame with options of 9mm thick phenolic plywood or 10mm thick Alkus face material.

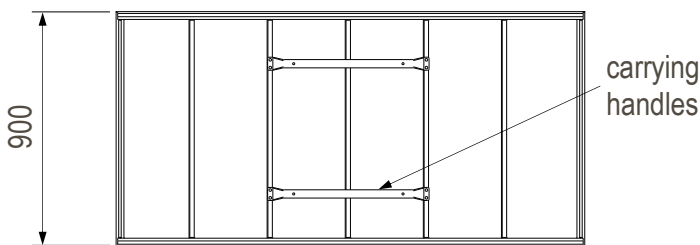
See Table Below for Allowable Slab Thicknesses



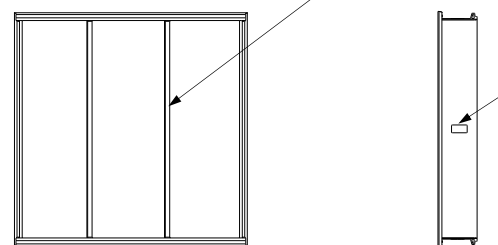
Side Elevation



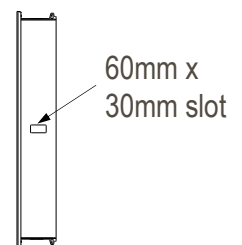
Side Elevation



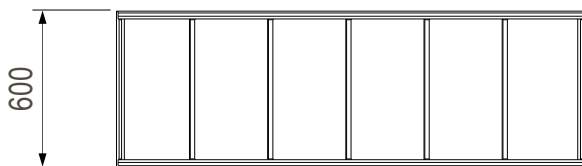
1800 x 900mm Panel Plan



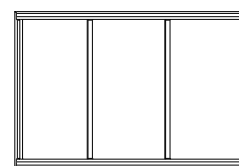
900 x 900mm Panel Plan



End Elevation



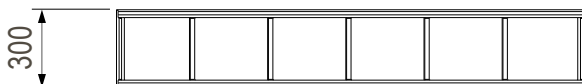
1800 x 600mm Panel Plan



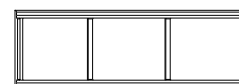
900 x 600mm Panel Plan



End Elevation



1800 x 300mm Panel Plan



900 x 300mm Panel Plan



End Elevation

Code		Description	Weight		Maximum Slab Thickness
Plywood	Composite		Plywood	Composite	
ADX18090	ADX18091	Airodek Panel 1800 x 900mm	24.2 kg	29.8 kg	500mm
ADX18060	ADX18061	Airodek Panel 1800 x 600mm	21.2 kg	21.6 kg	700mm
ADX18030	ADX18031	Airodek Panel 1800 x 300mm	12.3 kg	14.1 kg	700mm
ADX09090	ADX09091	Airodek Panel 900 x 900mm	16.0 kg	16.3 kg	500mm
ADX09060	ADX09061	Airodek Panel 900 x 600mm	11.7 kg	11.9 kg	700mm
ADX09030	ADX09031	Airodek Panel 900 x 300mm	6.62 kg	7.50 kg	700mm

For details of where increased slab thicknesses are to be supported in local slab thickenings, refer to next page. Further checks should always be made on the allowable working load of the falsework system used for support.



Airodek used with Thicker Concrete Slabs

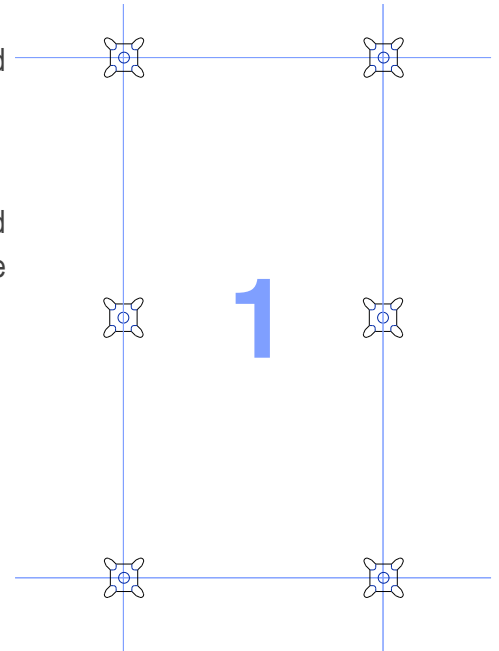
The published performance of Airodek Panels elsewhere in this document includes restrictions of overall deflection to within the panel-diagonal/270. The load capacity of Airodek Props may also limit with thicker slabs. The following measures may be used to support local areas of thicker slabs where needed:

Airodek 1800x900mm Panel

Slab thickness may be increased to 600mm provided an Airodek Standard Prop is mid-span to support the long panel side members.

Airodek 1800x600mm Panel

Slab thickness can be increased to 900mm provided an Airodek Standard Prop is added mid-span to support the long panel side members AND the soffit is overlaid with 17mm plywood

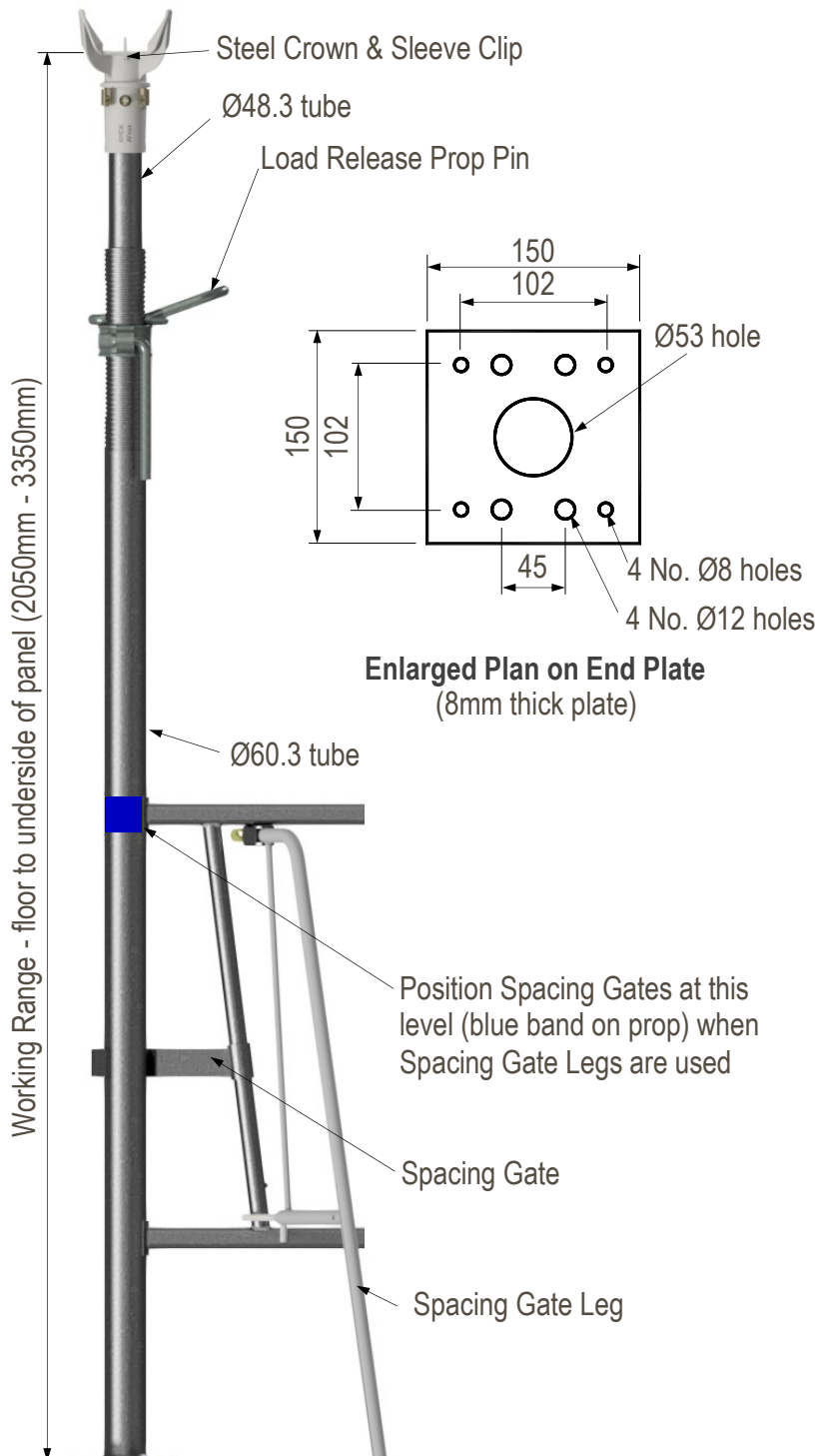


Airodek Prop for 2150-3520mm (ADX20005) weight 18.1kg (excluding crown & prop pin)

Use in conjunction with Airodek Steel Crown (ADX20015), Rapidshor Sleeve Clip (RCX10009) and Airodek Prop Pin (ADX20012) to support Airodek Panels and Infill Beams.

Note: Allowable Working Load of Airodek Prop Pin limits axial load to 22kN - see [Sheet 11](#).

Safe working loads for BS 4074:1982 props erected 1.5° out-of-plumb



Loads with Airodek Prop, crown & Std Panel		
Prop Length (m)	Floor-Soffit (m)	AWL* (kN)
2.03	2.2	22
2.13	2.3	22
2.23	2.4	22
2.33	2.5	22
2.43	2.6	22
2.53	2.7	22
2.63	2.8	22
2.73	2.9	22
2.83	3.0	22
2.93	3.1	21
3.03	3.2	19
3.13	3.3	18
3.23	3.4	17.5
3.33	3.5	17

Note: load capacity depends upon correct installation of prop pin.

22kN is Load Release Pin AWL.

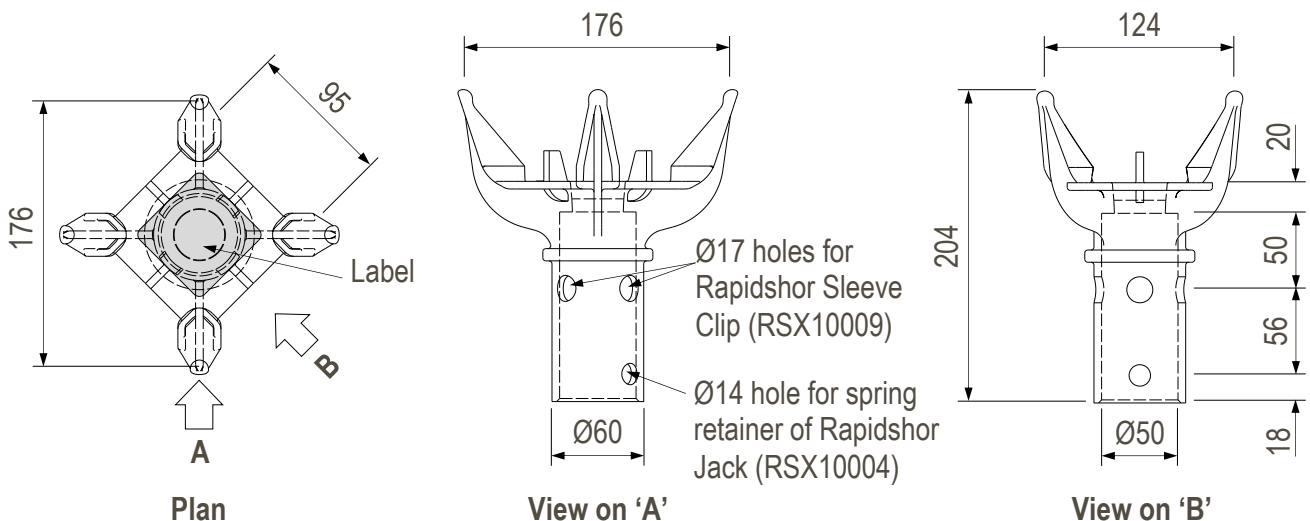
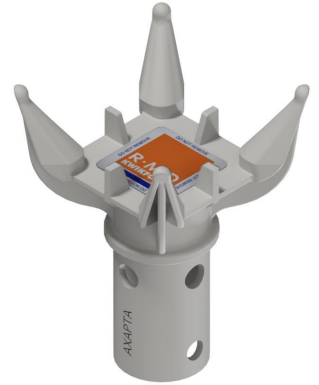
Airodek Steel Crown (ADX20015) weight 2.11kg

Use to locate and support Airodek Panels on top of the Airodek Standard Props or other falsework using an appropriate adapter.

Allowable Working Load - concentric **60kN**, **30kN** with 25mm load eccentricity.
Maximum reaction from the corner of an Airodek Panel onto a Crown **10kN**.

Maximum reaction from an edge section of an Airodek Panel onto a Crown **8kN** in the centre of the panel side member, **4kN** near the end of the panel side member.

Note: Earlier versions were of aluminium construction and have the same AWL.



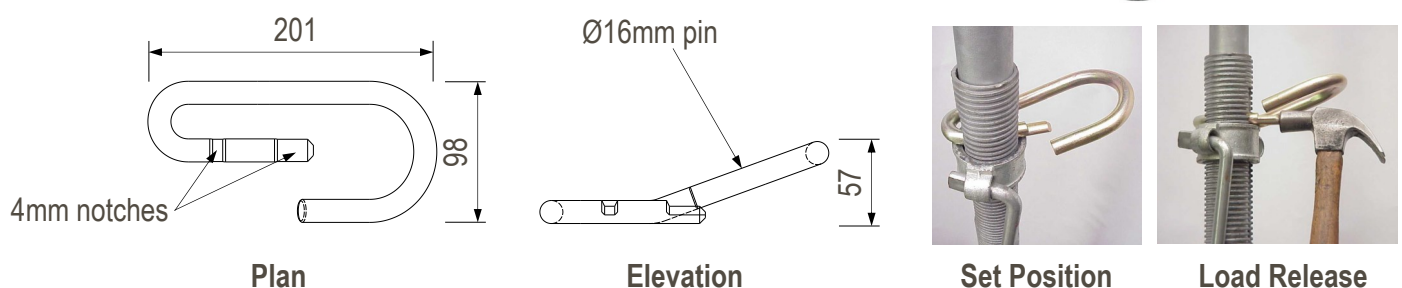
Rapidshor Sleeve Clip (RSX10009) weight 0.09kg

Use to connect the Airodek Steel Crown (ADX20015) to an Airodek Prop or a choice of several adapters - see [Sheets 62 & 63](#).



Airodek Load Release Prop Pin (ADX20012) weight 0.80kg

Use to fix the Airodek Prop to length and to provide an initial load release during soffit stripping. **AWL = 22kN**

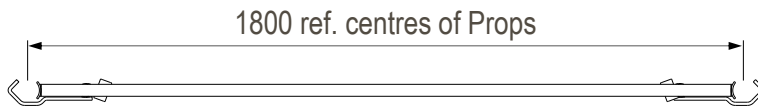


Spacing Gates and Legs for Airodek Props

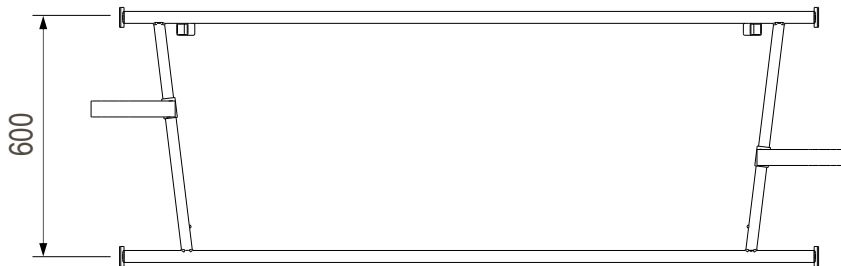
Use to stabilise Prop & Panel falsework during erection prior to the placement of soffit infill formwork.

Use a continuous line of 900mm wide Spacing Gates with a pair of Spacing Gate Legs attached to alternate gates for the first row of Airodek Props erected. If the first row of props are adjacent to a wall, fit the Spacing Gate Legs all to the side of the Spacing Gates remote from the wall. If the first line of props erected is remote from any wall, alternately reverse Spacing Gates and Spacing Gate Legs to provide stability to the props in both directions.

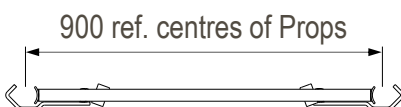
Use an 'L' of Spacing Gates without legs in both directions at 5.4m centres thereafter. Once the soffit perimeter infills are in place and before the soffit is loaded, Spacing Gates can be removed and moved forward to assist with erection at the leading edge of the falsework.



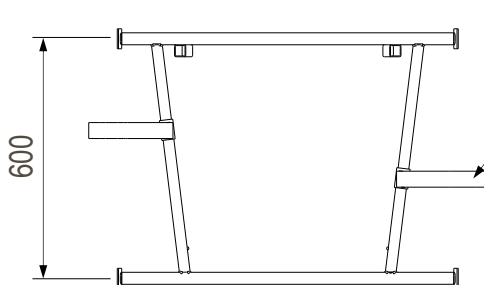
Spacing Gate 1800mm Plan



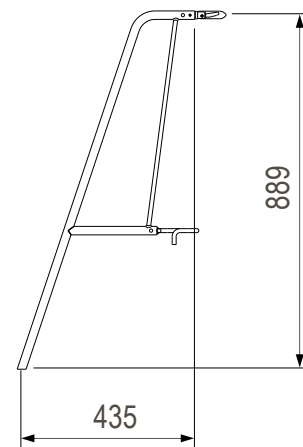
Spacing Gate 1800mm Elevation



Spacing Gate 900mm Plan



Spacing Gate 900mm Elevation



Spacing Gate Leg Elevation

* These Spacing Gates will not fit E35 or E40 EuroProps

Code	Description	Weight
ADX20007*	Airodek Spacing Gate 1800mm	9.56 kg
ADX20006*	Airodek Spacing Gate 900mm	6.73 kg
ADX20008	Spacing Gate Leg	2.38 kg

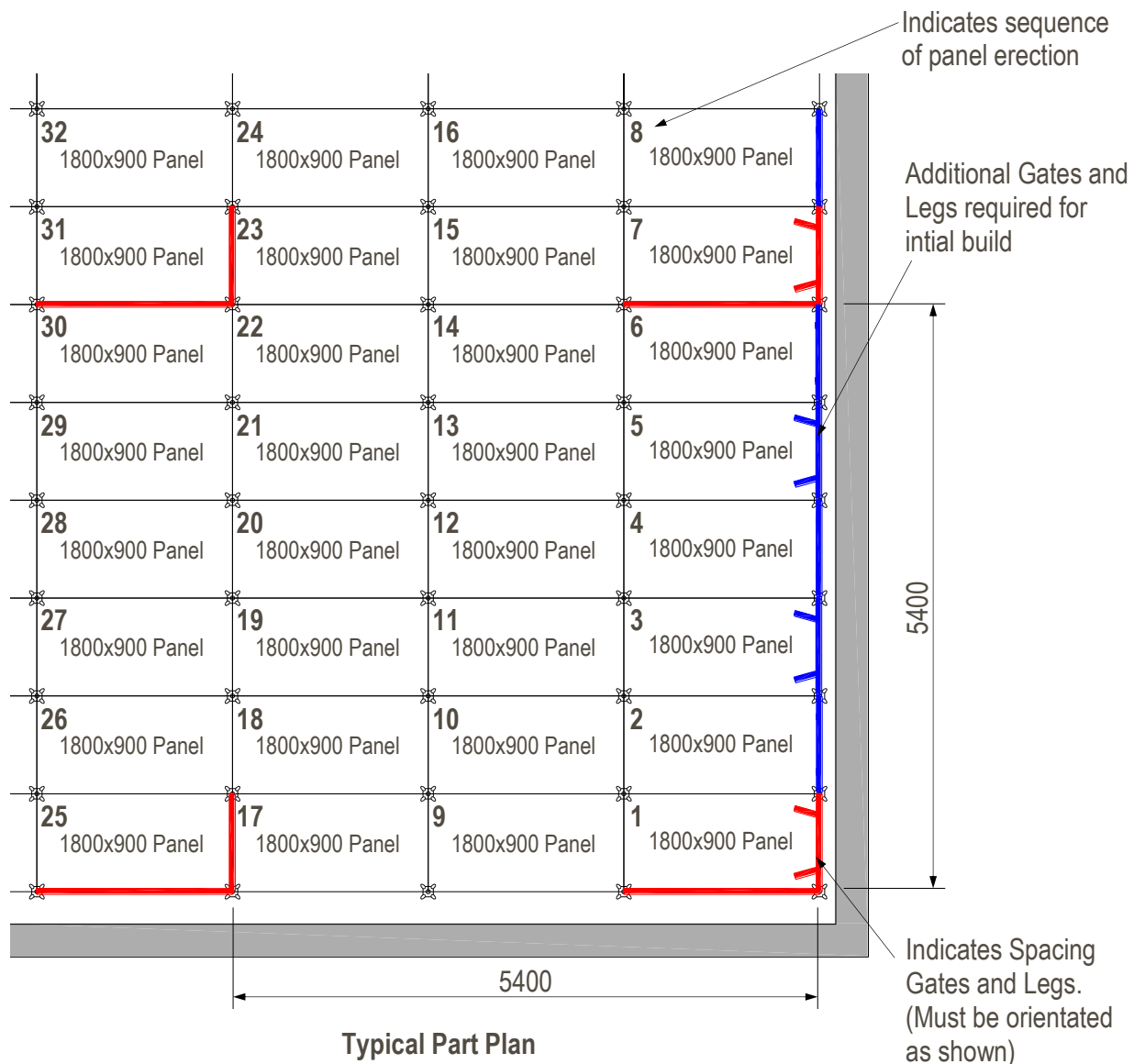
Airodek Prop & Panel System Spacing Gates - Typical Details

The Spacing Gates & Spacing Gate Legs provide temporary stability for the Airodek System during erection, whilst the system is free-standing.

The stability of the whole system relies on the soffit formwork being laterally top-restrained (i.e. the Airodek panels or infill plywood butt snugly up against the permanent structure such as the walls and columns which then prevent the system from falling over). Where this cannot be relied upon, additional bracing will be required.

Preferably panels should be orientated so that the 1800mm length runs parallel with the longest wall. Spacing gates are required at 5.4m centres in each direction although additional 900mm gates and legs will be required for panels 3 and 5 until a sufficient area of panels has been erected to stabilise the system - approx. 32 panels. These additional gates and legs can be removed at this point for use elsewhere on the falsework.

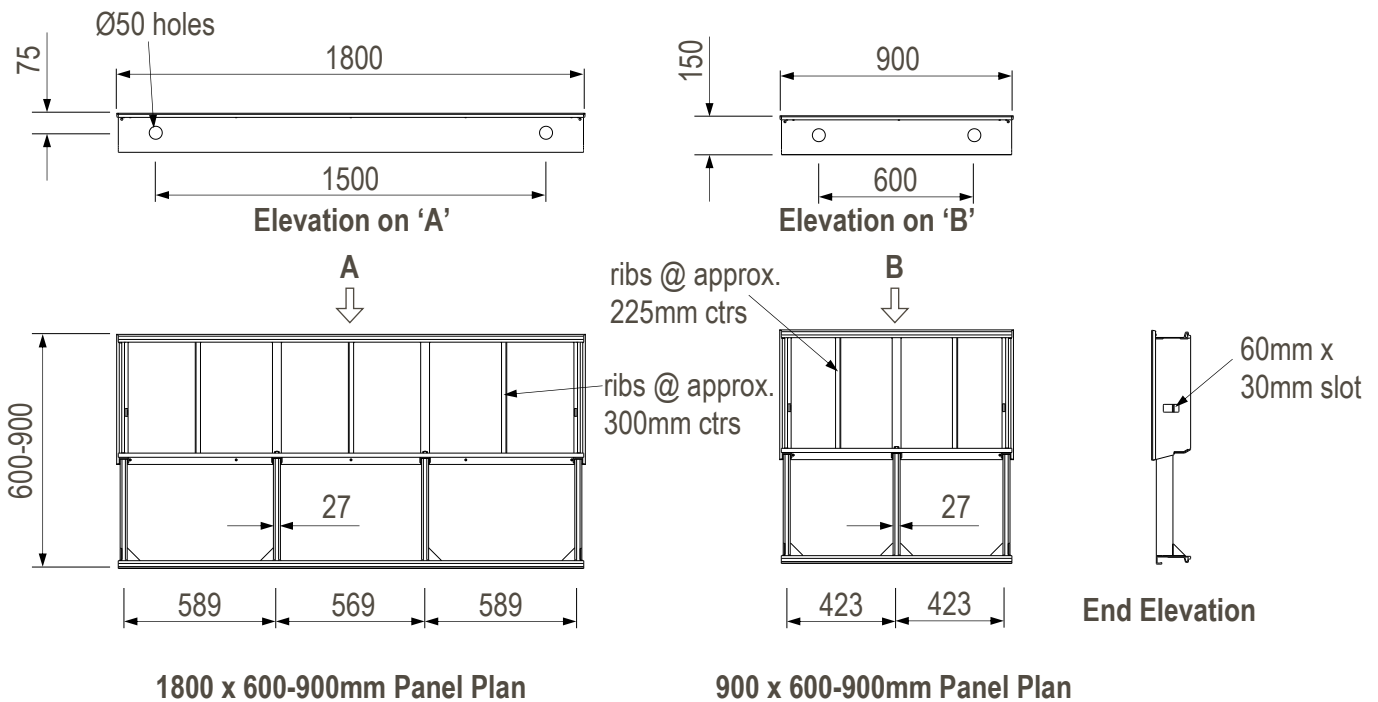
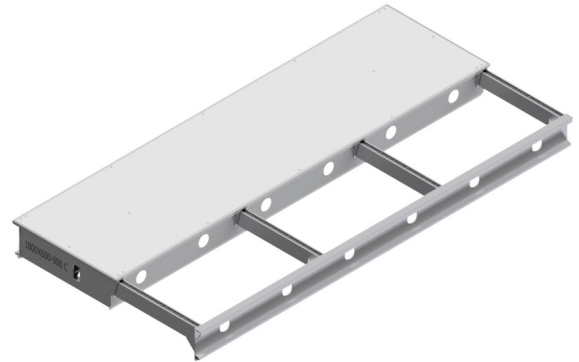
Refer to Equipment Guidance Notes UIX10204 for further details.



Airodek Telescopic Panels

Manufactured from a welded, lightweight, powder coated, aluminium extruded frame with a 10mm thick Alkus face material & integral plastic nailing strips, Telescopic Panels adjust in width from 600mm - 900mm and support 17-19mm thick plywood infill supplied by the customer.

Maximum Allowable Slab Thickness = 450mm

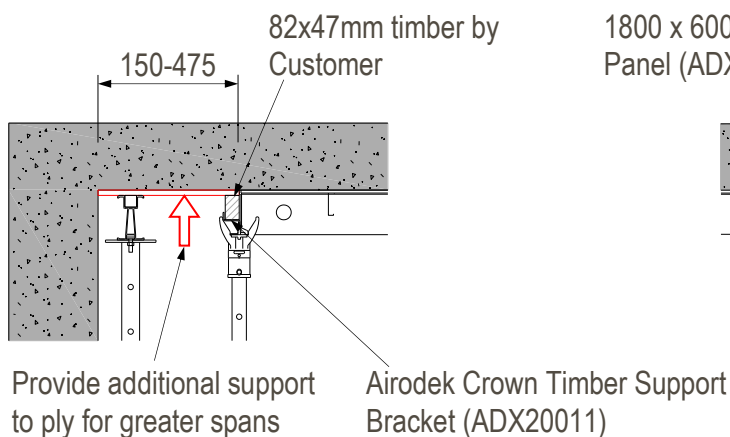
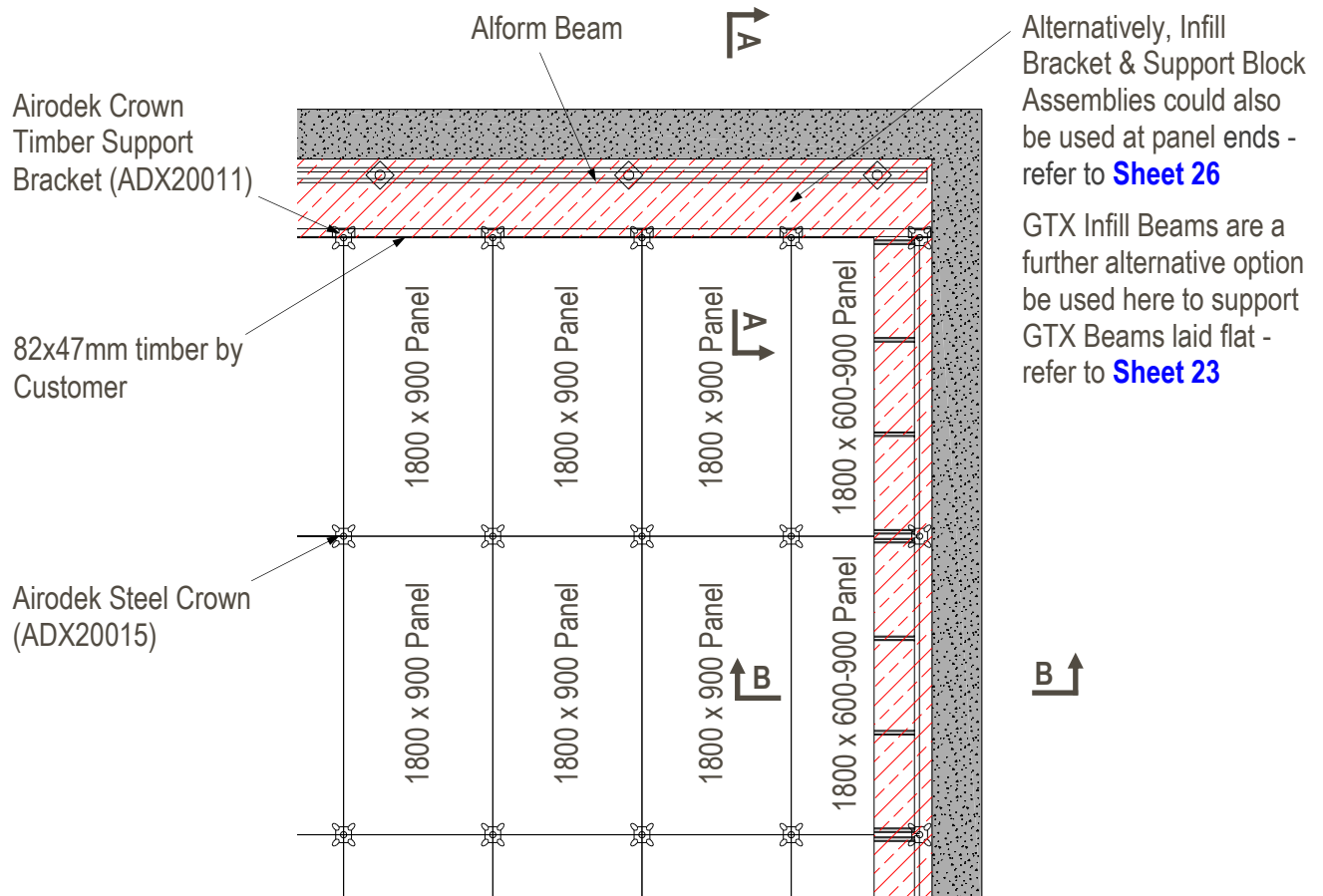


Note: Further checks should always be made on the allowable working load of the falsework system used for support.

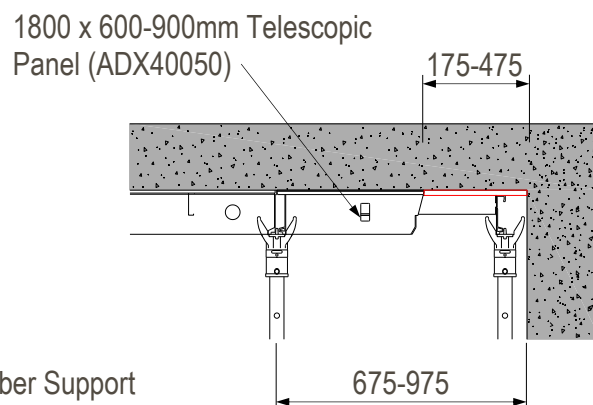
Code	Description	Weight
ADX40500	1800 x 600-900mm Telescopic Panel	25.1 kg
ADX40501	900 x 600-900mm Telescopic Panel	14.4 kg

Infill at Perimeter Walls

The example below shows infill adjacent to perimeter walls using Telescopic Panels. Use Airotek Crown Timber Support Brackets with 82x47mm timbers at panel ends where the Infill Beams will not fit.



Section A-A
(Spans 150-475mm)



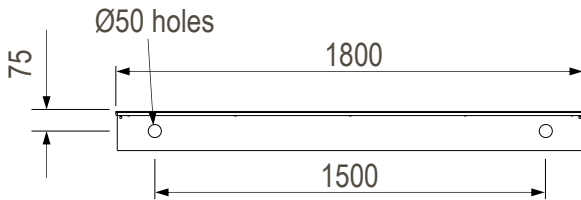
Section B-B
(Ply Rip 175-475mm)

Airodek Trapezoidal Panels

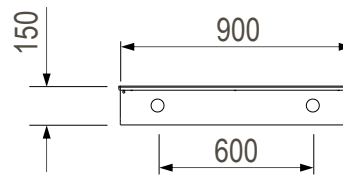
Manufactured from a welded, lightweight, powder coated, aluminium extruded frame with options of 9mm thick phenolic plywood or 10mm thick Alkus face material. Use to facilitate a change in panel grid direction or to reduce infill near skewed or curved perimeter walls - for application refer to [Sheet 17](#)

Note: Project specific Trapezoidal Panels with bespoke angles can be accommodated as a sale only option.

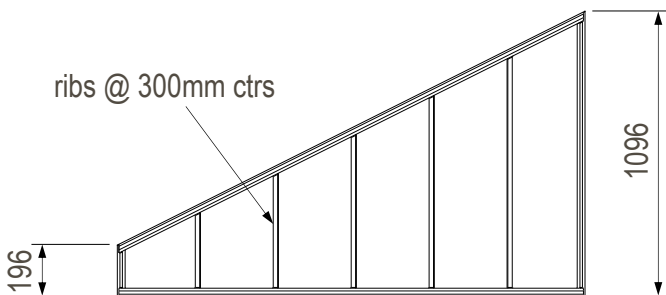
Allowable Slab Thickness = 500mm



Side Elevation



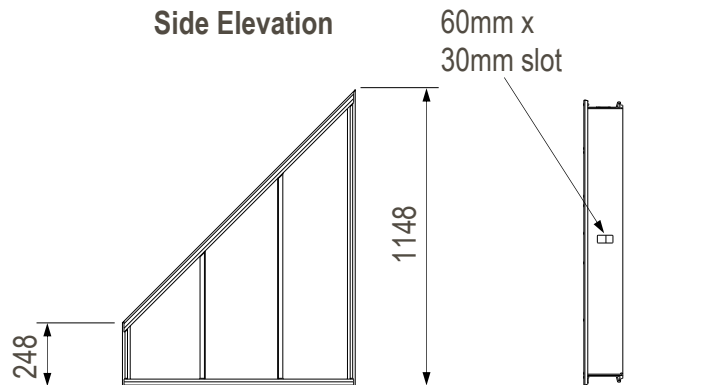
Side Elevation



Underside of 1800 Triangular Panel RH

1800 Triangular Panel LH

Similar but Handed



Underside of 900 Triangular Panel RH

900 Triangular Panel LH

Similar but Handed

End Elevation

Triangular Panels DO NOT fit on Decking Beams

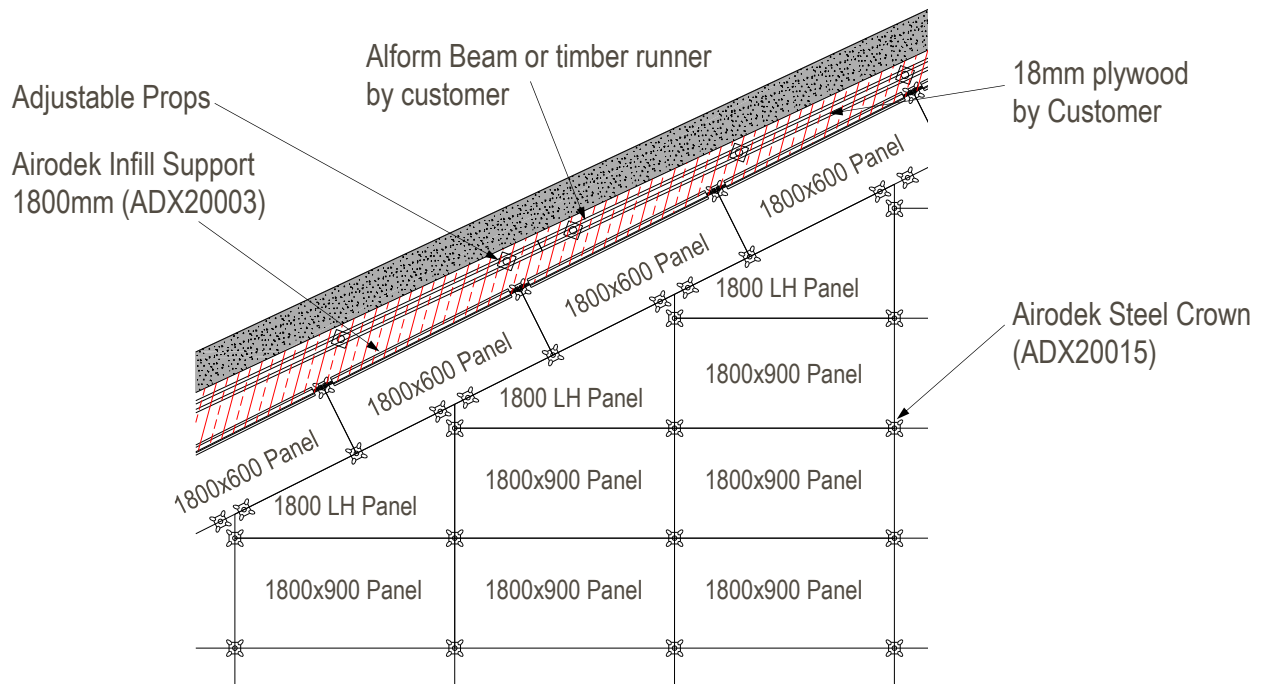
Code		Description	Weight	
Plywood	Composite		Plywood	Composite
ADX20033	ADX40007	Airodek Trapezoidal Panel 1800 RH	19.2 kg	23.2 kg
ADX20028	ADX40003	Airodek Trapezoidal Panel 1800 LH	19.2 kg	23.2 kg
ADX20034	ADX40008	Airodek Trapezoidal Panel 900 RH	13.8 kg	15.0 kg
ADX20029	ADX40004	Airodek Trapezoidal Panel 900 LH	13.8 kg	15.0 kg

Note: Further checks should always be made on the allowable working load of the falsework system used for support.

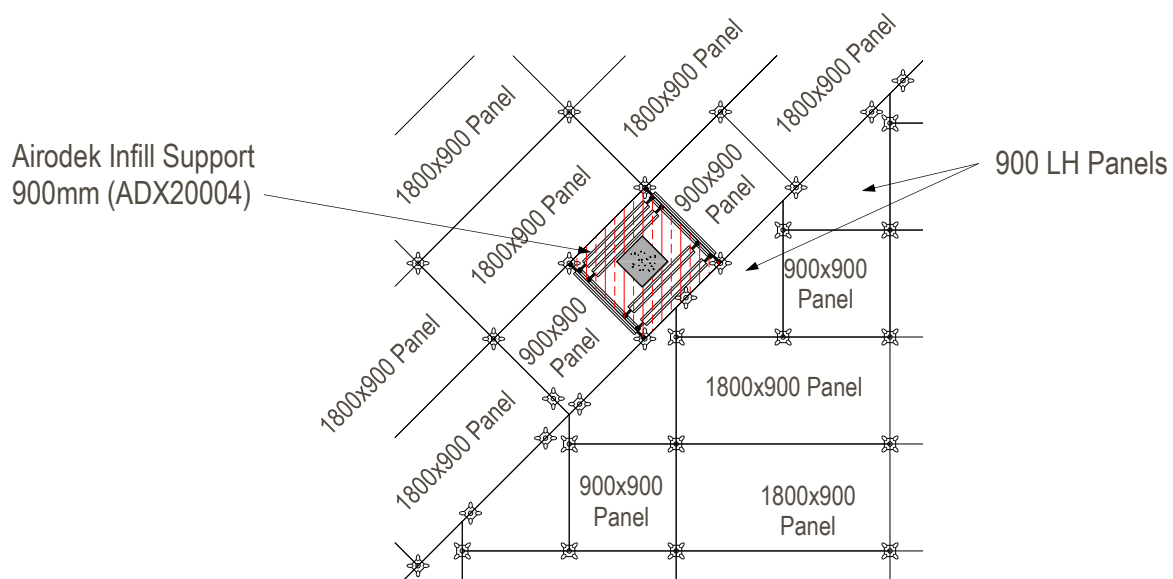
Airodek Triangular Panels - Typical Details

Airodek Triangular Panels are available in two sizes, 900mm with a 45° angle and 1800mm with a 63° angle. The examples below show how they can be used to help accommodate non-rectilinear building geometry, reducing timber makeup - therefore reducing cost and waste.

Note: the Airodek Steel Crown fits on all sides of the panels.



Typical Part Plan Showing 1800mm Triangular Panels Used Adjacent to a Skewed Perimeter Wall



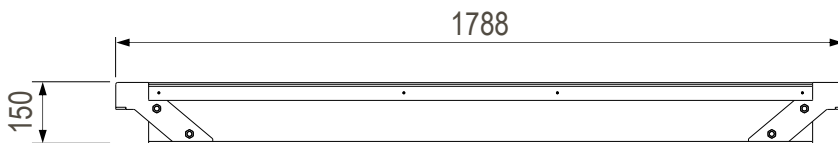
Typical Part Plan Showing 1800mm Triangular Panels Used to Change the Direction of the Panels

Aluminium Infill Beams

Use in primary and secondary directions to support 17-19mm plywood infill around walls and columns. **Allowable End Reaction = 12kN**
Allowable Bending Moment = 7kNm, EI = 268kNm²



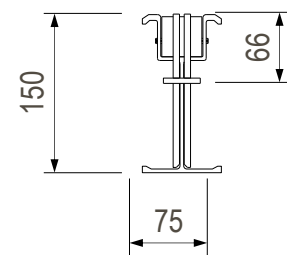
Code	Description	Weight
ADX20003	Airodek Infill Support 1800mm	10.1 kg
ADX20004	Airodek Infill Support 900mm	7.30 kg



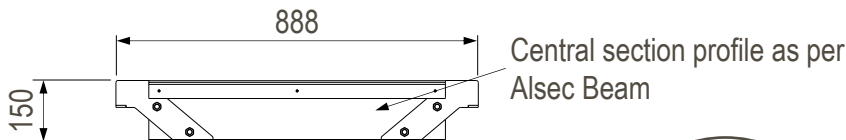
Infill Support 1800mm Elevation



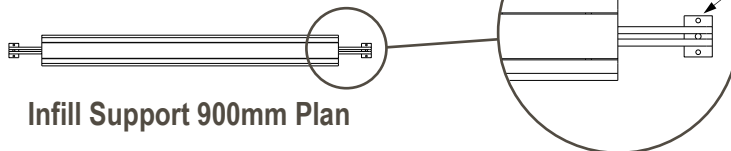
Infill Support 1800mm Plan



Enlarged Section



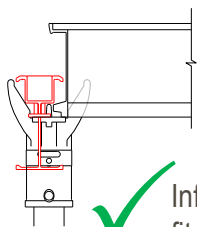
Infill Support 900mm Elevation



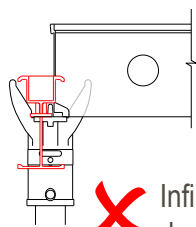
Infill Support 900mm Plan

Nail holes in end plates to facilitate connection to supporting Infill Beam

Note: Due to the differing shape of the Airodek Panel profiles between sides and ends the lower primary Infill Beams can only fit adjacent to the **sides** of panels - see detail below.



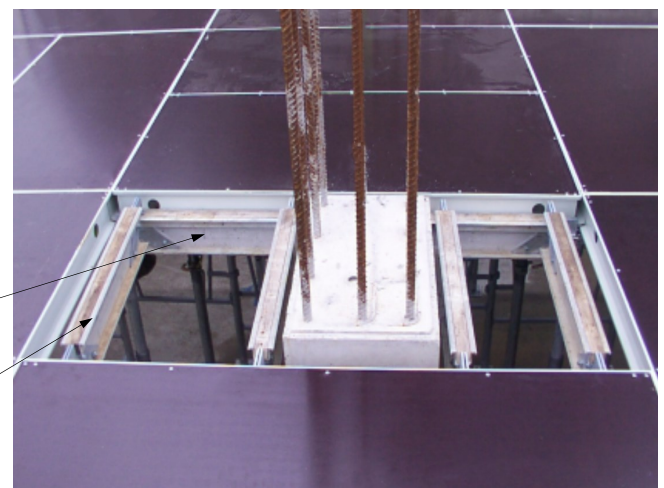
Infill Beam fits



Infill Beam doesn't fit

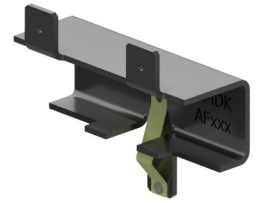
Sit primary Infill Beams adjacent to panels on Steel Crowns or Deck Beams

Sit secondary Infill Beams on primary Infill Beams at centres to suit maximum plywood span

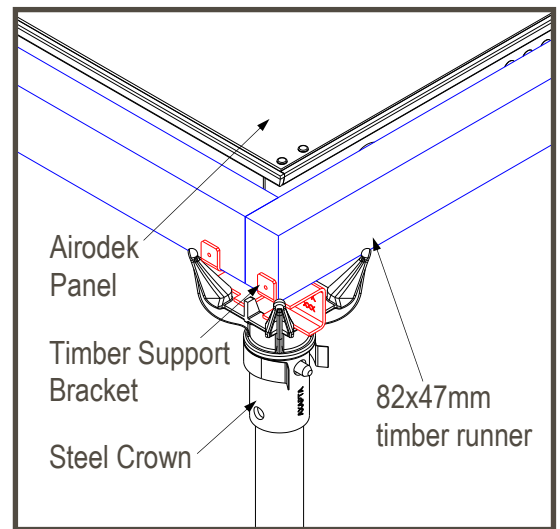
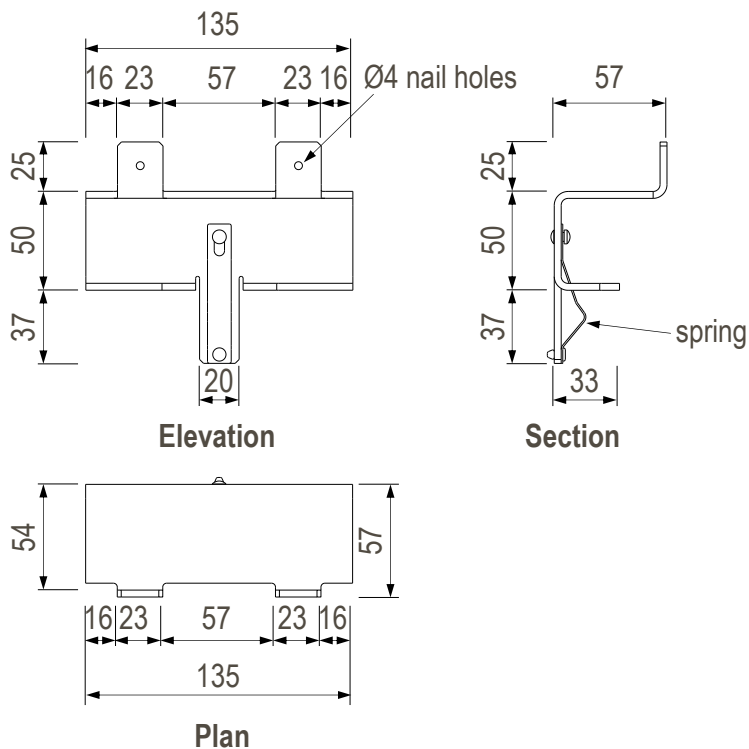


Airodek Crown Timber Support Bracket (ADX20011) weight 0.48kg

Fix in the Airodek Steel Crown to support an 82x47mm timber runner below 18mm plywood infills. (The label on the Crown must be punctured or removed to accommodate this item).

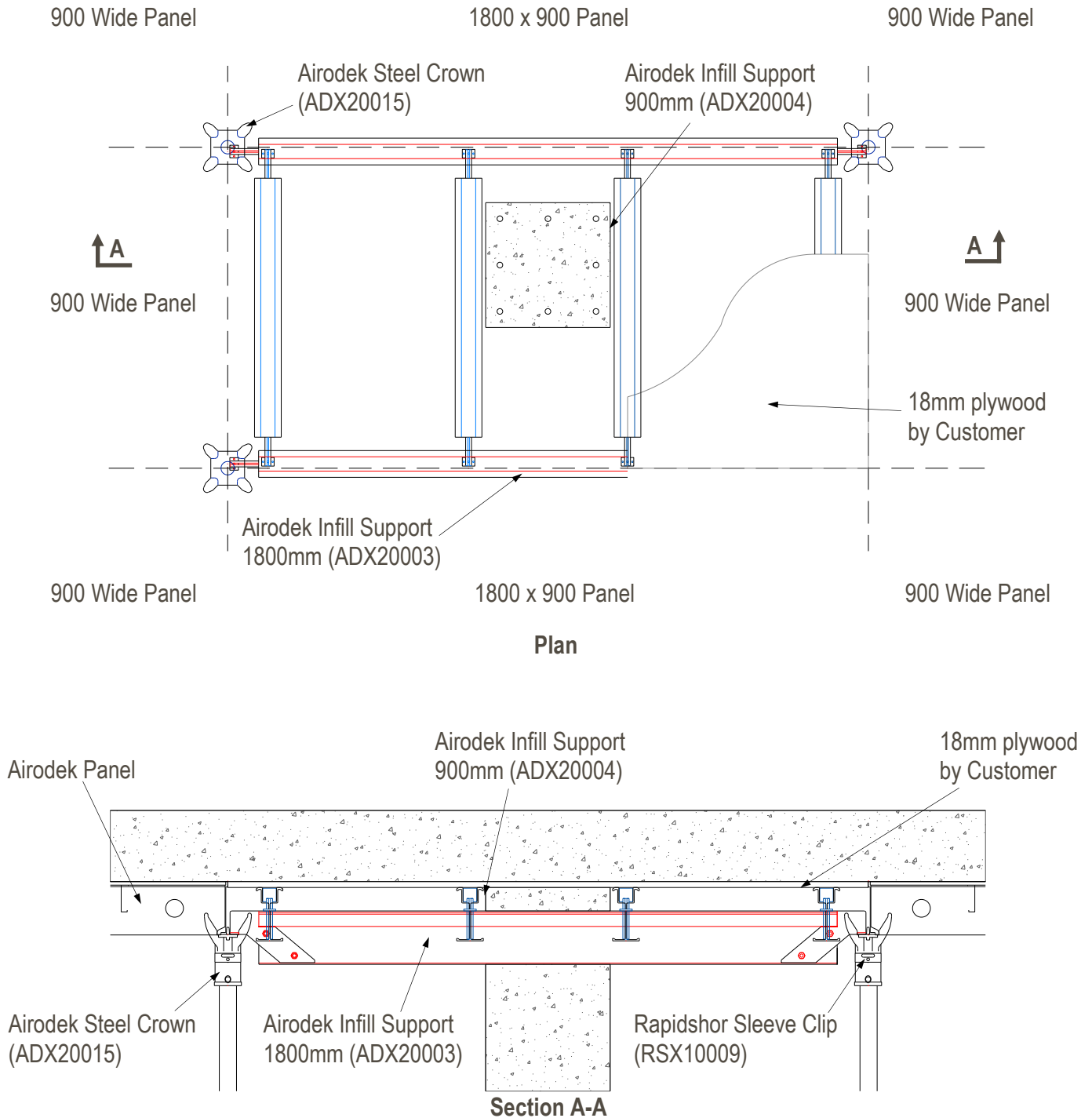


Note: The Airodek Crown Timber Support Bracket cannot be used when a Rapidshor Jack supports the Steel Crown or where an Infill Support Beam shares the same Steel Crown in a straight run - refer to example on [Sheet 22](#).



Infill at Columns Falling in One Panel (Aluminium Infill Beams)

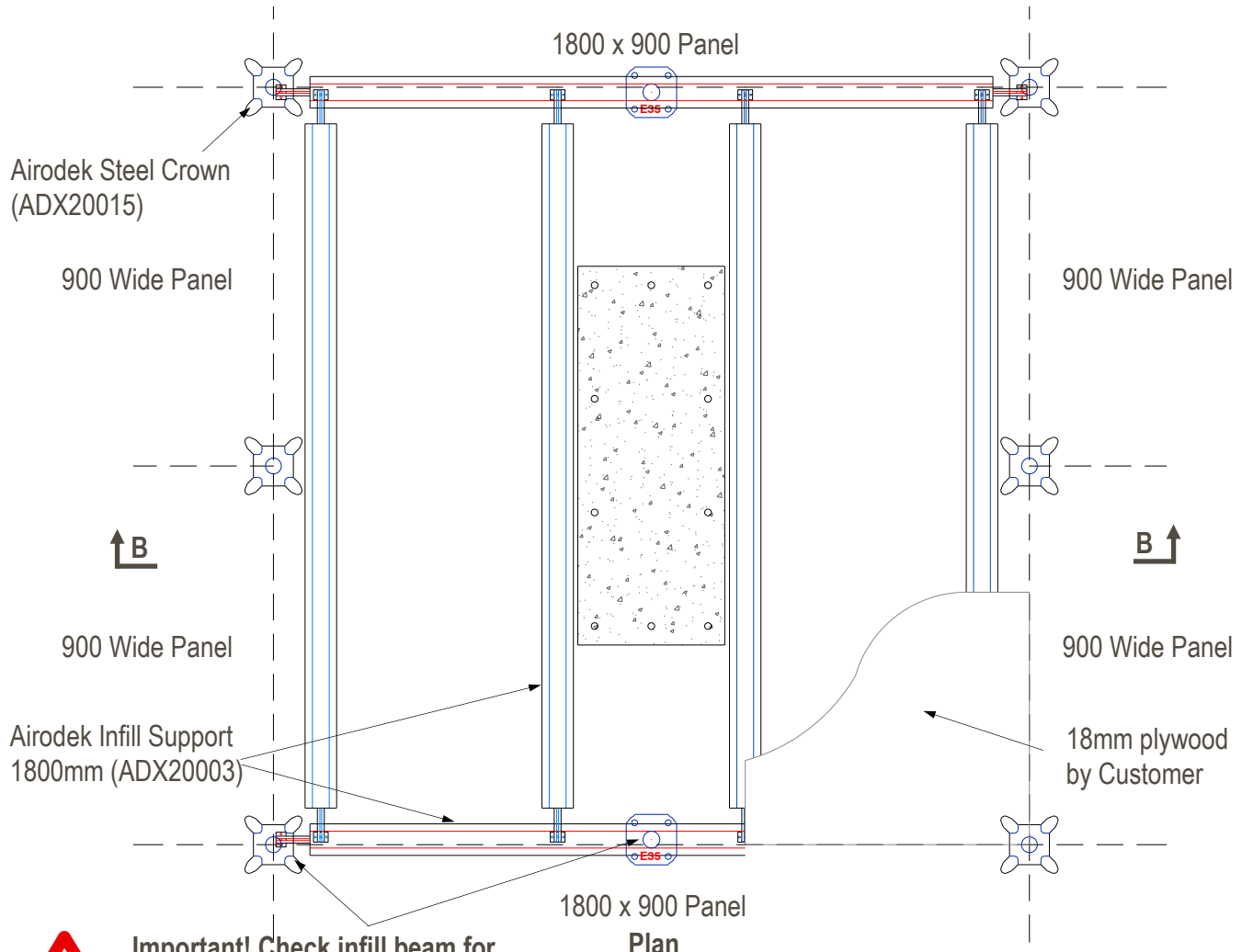
The example below shows an 1800x900mm infill. Primary Infill Beams (i.e. the infill beams sitting on the crown) must be fitted adjacent to the side of a panel as they will not fit adjacent to the end of a panel - refer to [Sheet 18](#).



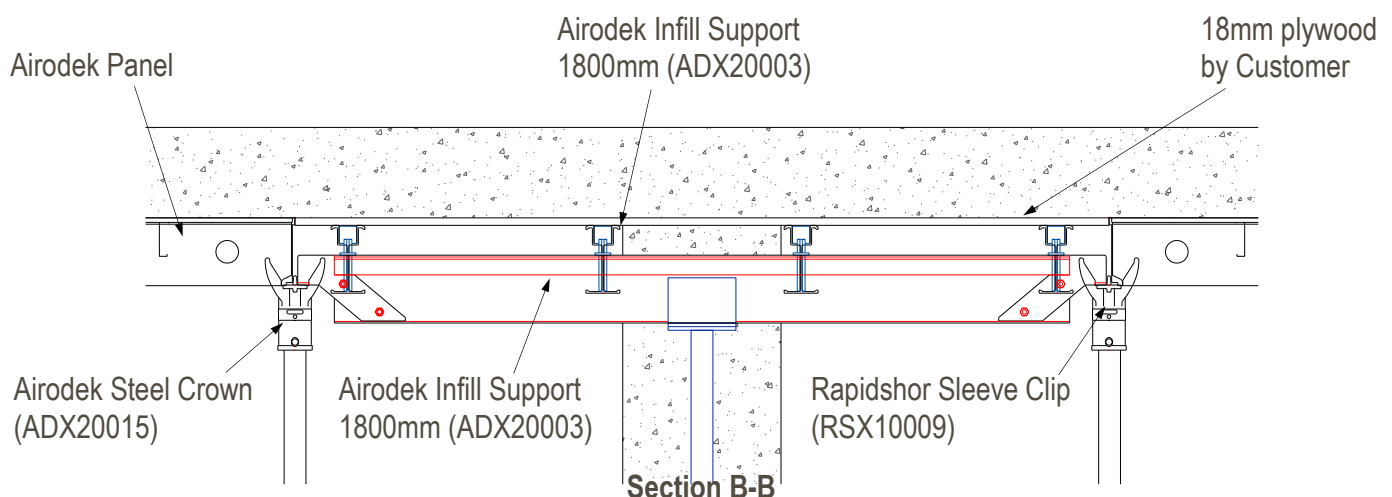
Note: for wider columns where the spacings of the 900mm infill beams exceed the maximum span of the plywood, additional timber secondary beams may need to be introduced either side of the column sitting on the 1800mm infill beams one end with local propping the other end.

Infill at Columns Falling in Two Panels (Aluminium Infill Beams)

The example below shows an 1800x1800mm infill. Primary infill beams (i.e. the infill beams sitting on the crown) must be fitted adjacent to the side of a panel as they will not fit adjacent to the end of a panel - refer to [Sheet 18](#).

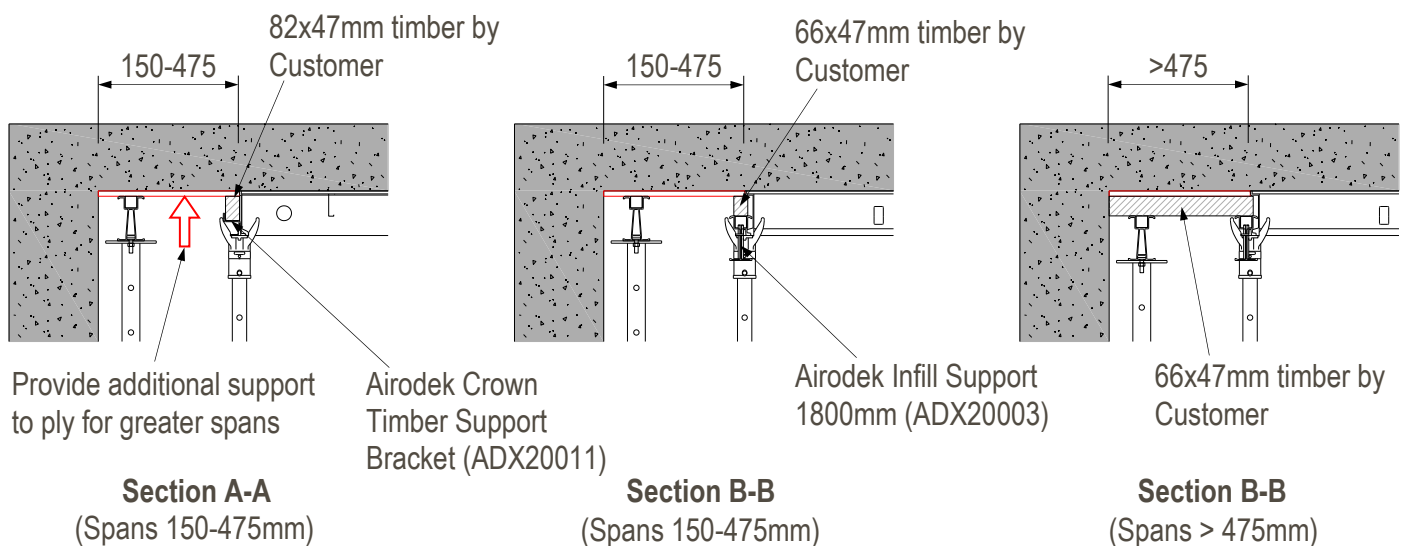
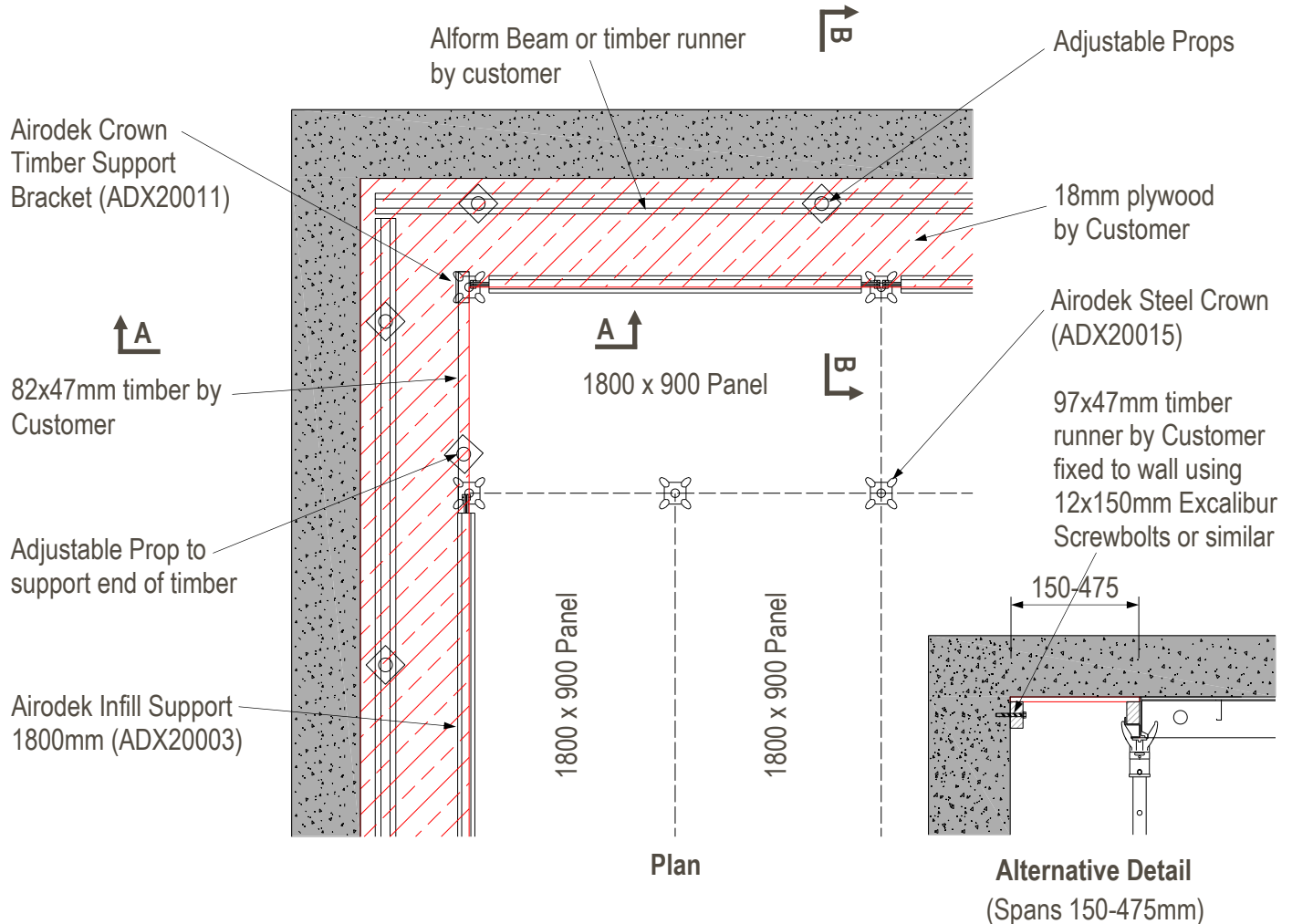


Important! Check infill beam for strength and deflection.
Add props to mid span if overloaded



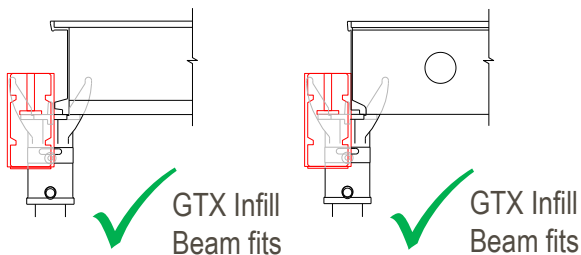
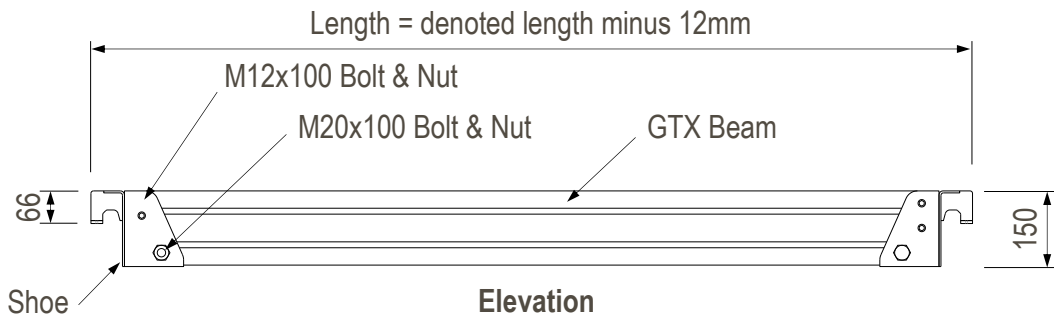
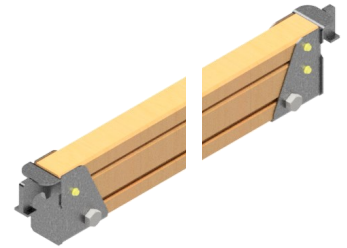
Infill at Perimeter Walls

The example below shows infill adjacent to perimeter walls using Infill Support Beams. Use Airodek Crown Timber Support Brackets with 82x47mm timbers at panel ends where the Support Beams will not fit.



GTX Infill Beams

A more economical laminated veneer timber alternative to Aluminium Infill Beams designed to support GTX Beams laid on their sides beneath a 17-19 thick plywood form face. Unlike the Aluminium Infill Beam, can be fitted to all sides of the Airodek Panel, reducing the requirement for custom made timber beams.

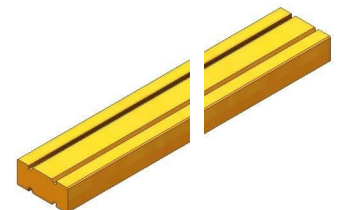


Section Properties	
Allowable End Reaction	10.0kN
Maximum Bending Moment (xx)	5.0kNm*
Maximum Shear Load	25.8kN
Flexural Rigidity, EI	186kNm ²
Shear Stiffness, GA	3932kN

Code	Description	Weight
ADX20600	Airodek GTX Infill Beam 600mm	8.25kg
ADX20900	Airodek GTX Infill Beam 900mm	9.90kg
ADX21200	Airodek GTX Infill Beam 1200mm	11.6kg
ADX21500	Airodek GTX Infill Beam 1500mm	13.2 kg
ADX21800	Airodek GTX Infill Beam 1800mm	14.9 kg

GTX Beams Laid Flat

An economical laminated veneer timber beam used laid-flat on top of GTX Infill Beams to support the plywood. Supplied as sale for the customer to cut to the required length on-site.

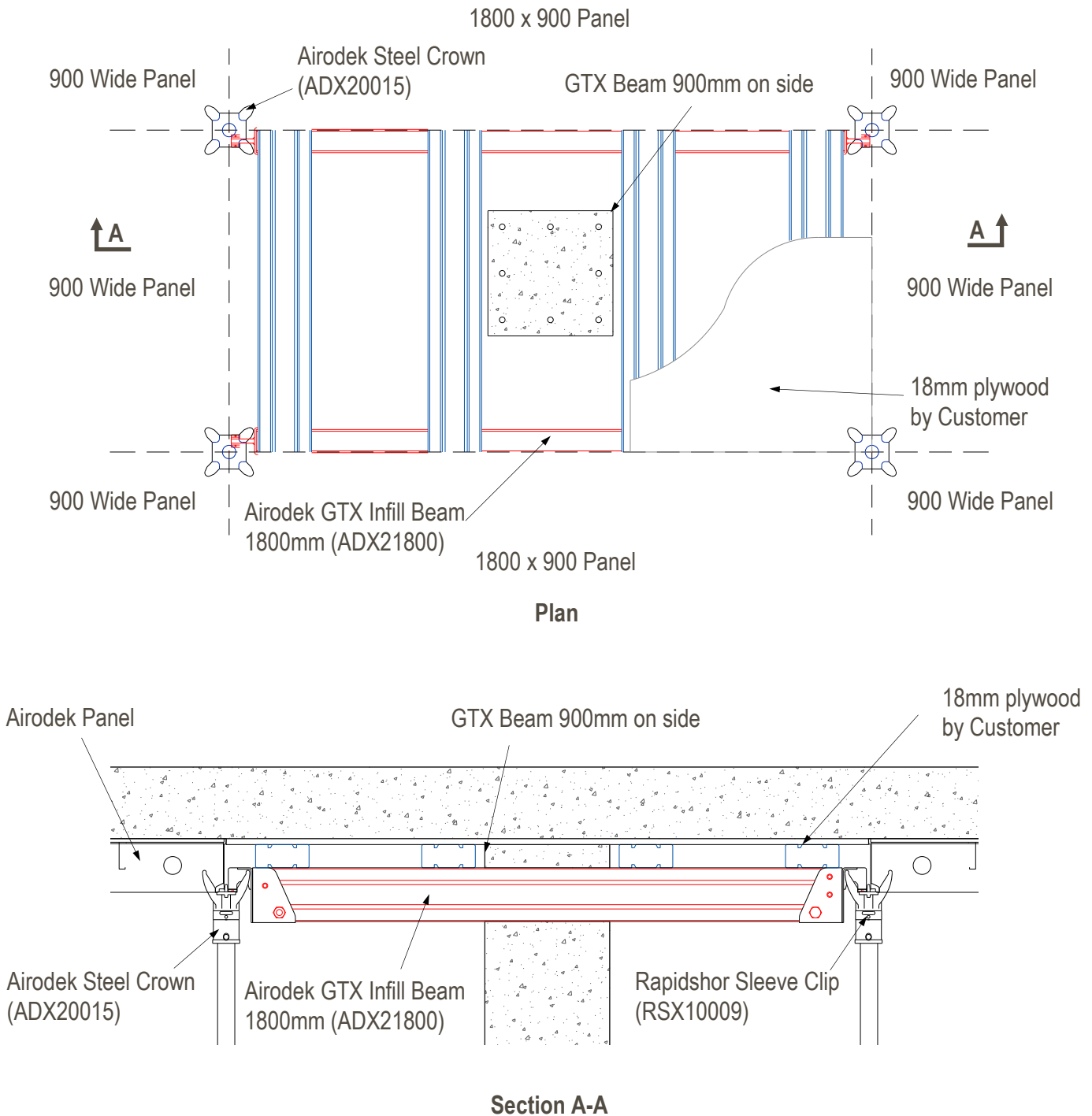


Section Properties	
Maximum Bending Moment (yy)	2.0kNm*
Maximum Shear Load	25.8kN
Flexural Rigidity - EI	33kNm ²

Code	Description	Weight
GTX12400	GTX Beam (150x65) 2400mm	13.4kg
GTX13000	GTX Beam (150x65) 3000mm	16.7kg

* In climates where the moisture content of the GTX beams is likely to be very low (e.g. Middle East) these values may be enhanced by 20%. *Items in italic text are available on a sale only basis.*

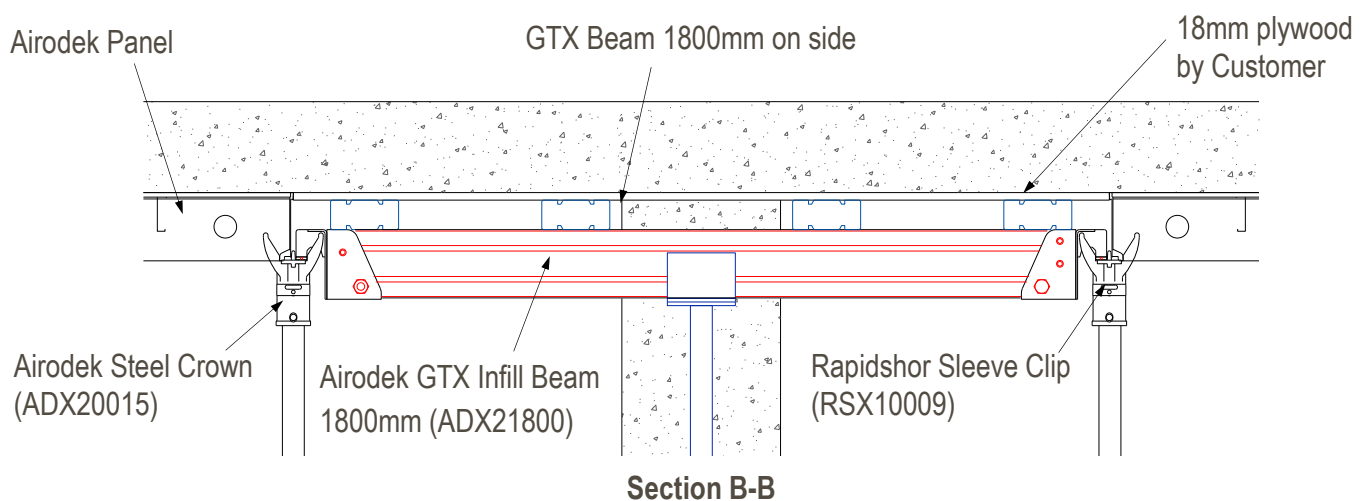
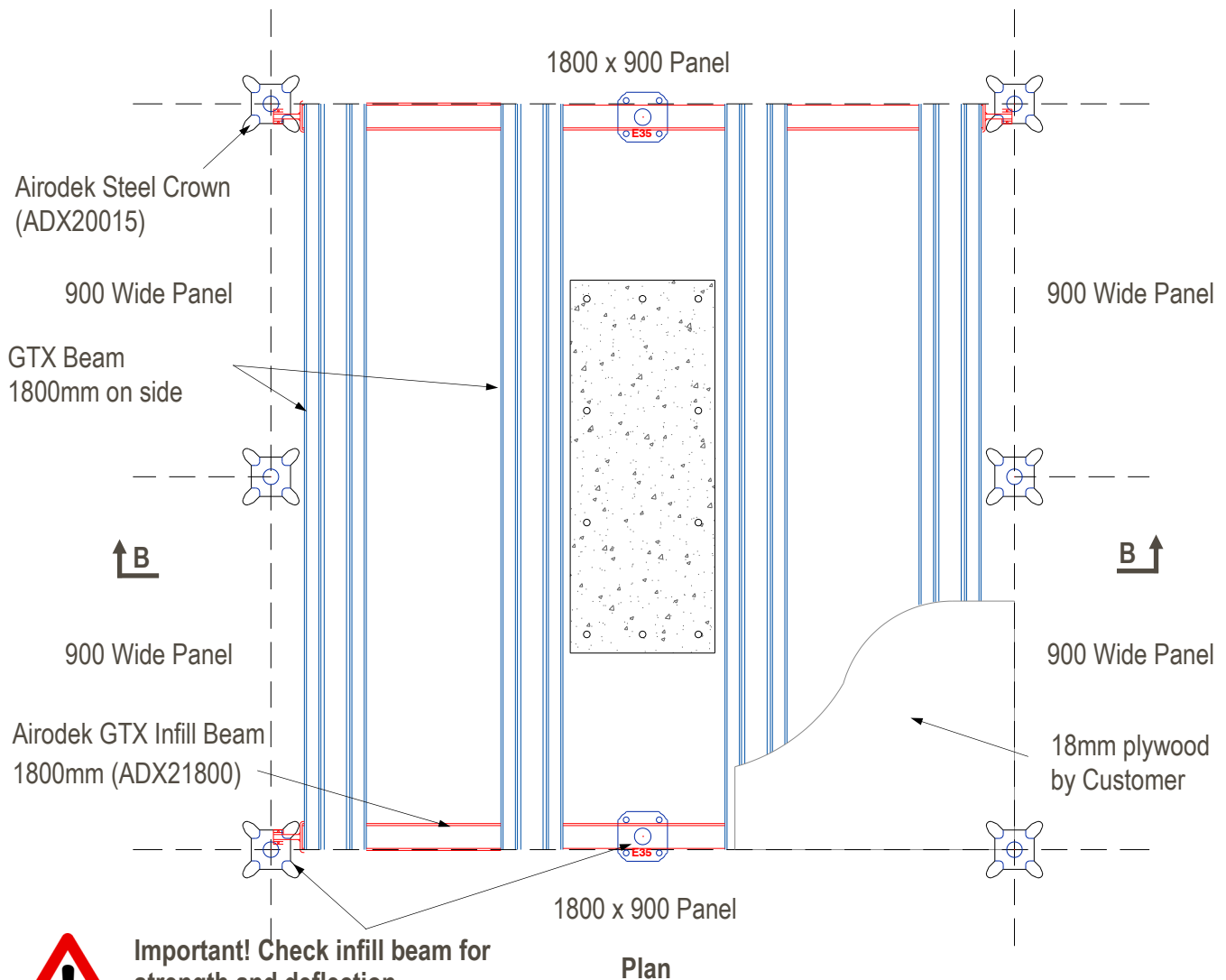
1800 x 900 Column Infill with GTX Infill Beams and Prop & Panel.



Note: for wider columns where the spacings of the 900mm infill beams exceed the maximum span of the plywood, additional timber secondary beams may need to be introduced either side of the column sitting on the 1800mm infill beams one end with local propping the other end.

Typical component configurations are shown, all components require design check to ensure adequacy.

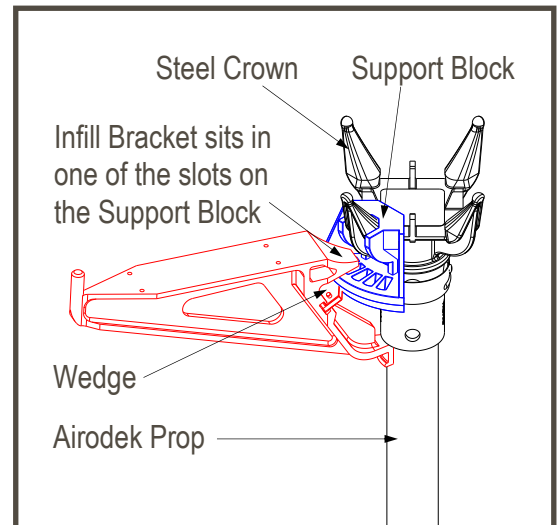
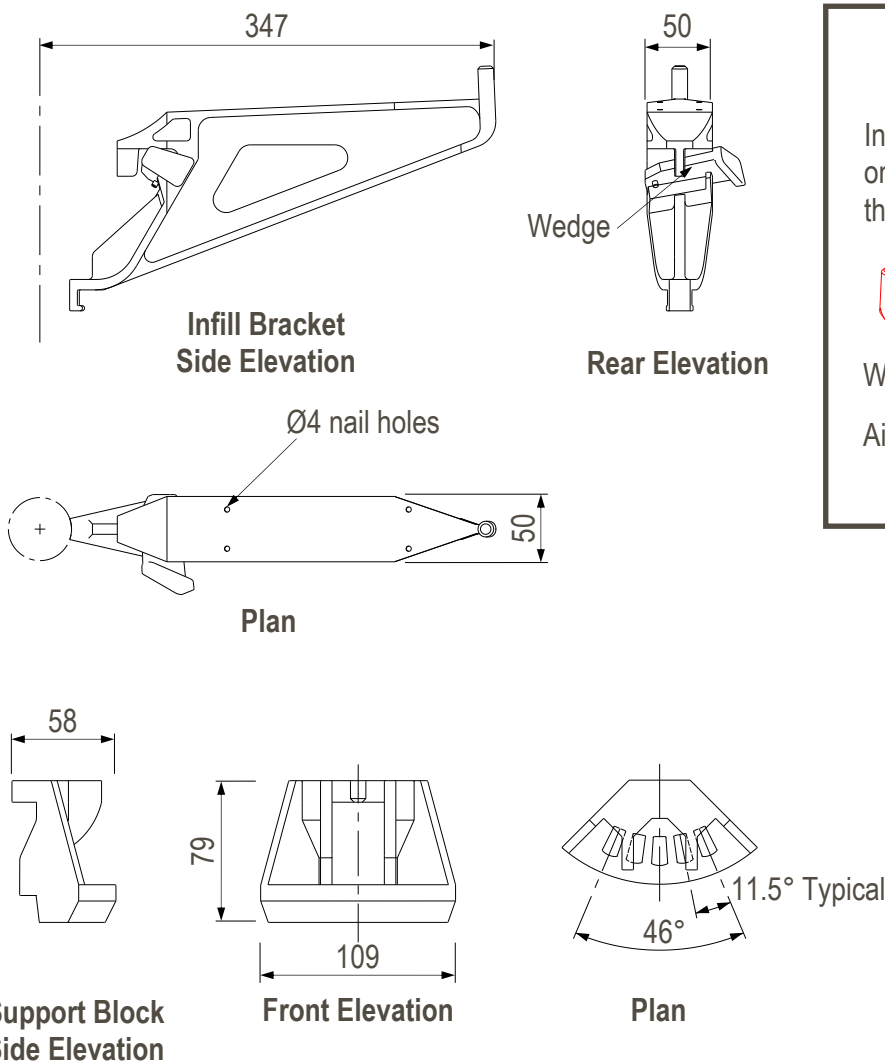
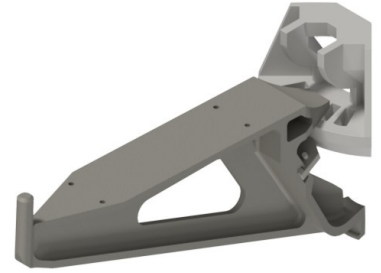
1800 x 1800 Column Infill with GTX Infill Beams and Prop & Panel.



Note: Typical component configurations are shown, all components require design check to ensure adequacy.

Airodek Infill Bracket & Support Block Assembly

Used as an alternative to Airodek Telescopic Panels to support soffit infills between 160 and 330mm wide adjacent to walls, the assembly attaches over one or more prongs of an Airodek Steel Crown to support 150mm deep timbers and 18mm plywood.

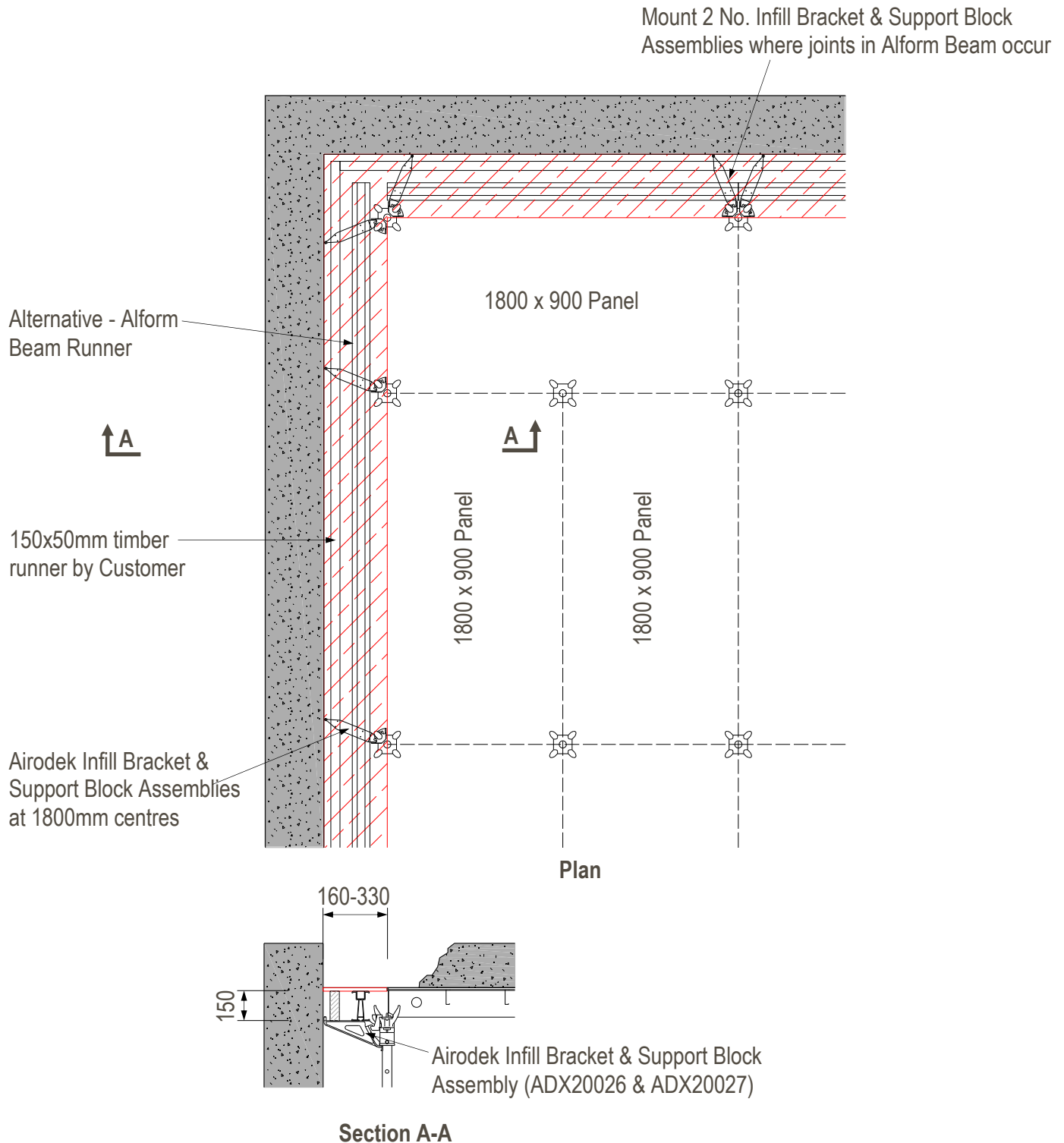


Code	Description	Weight
ADX20026	Airodek Infill Bracket	2.14 kg
ADX20027	Airodek Support Block	0.81 kg

Infill at Perimeter Walls

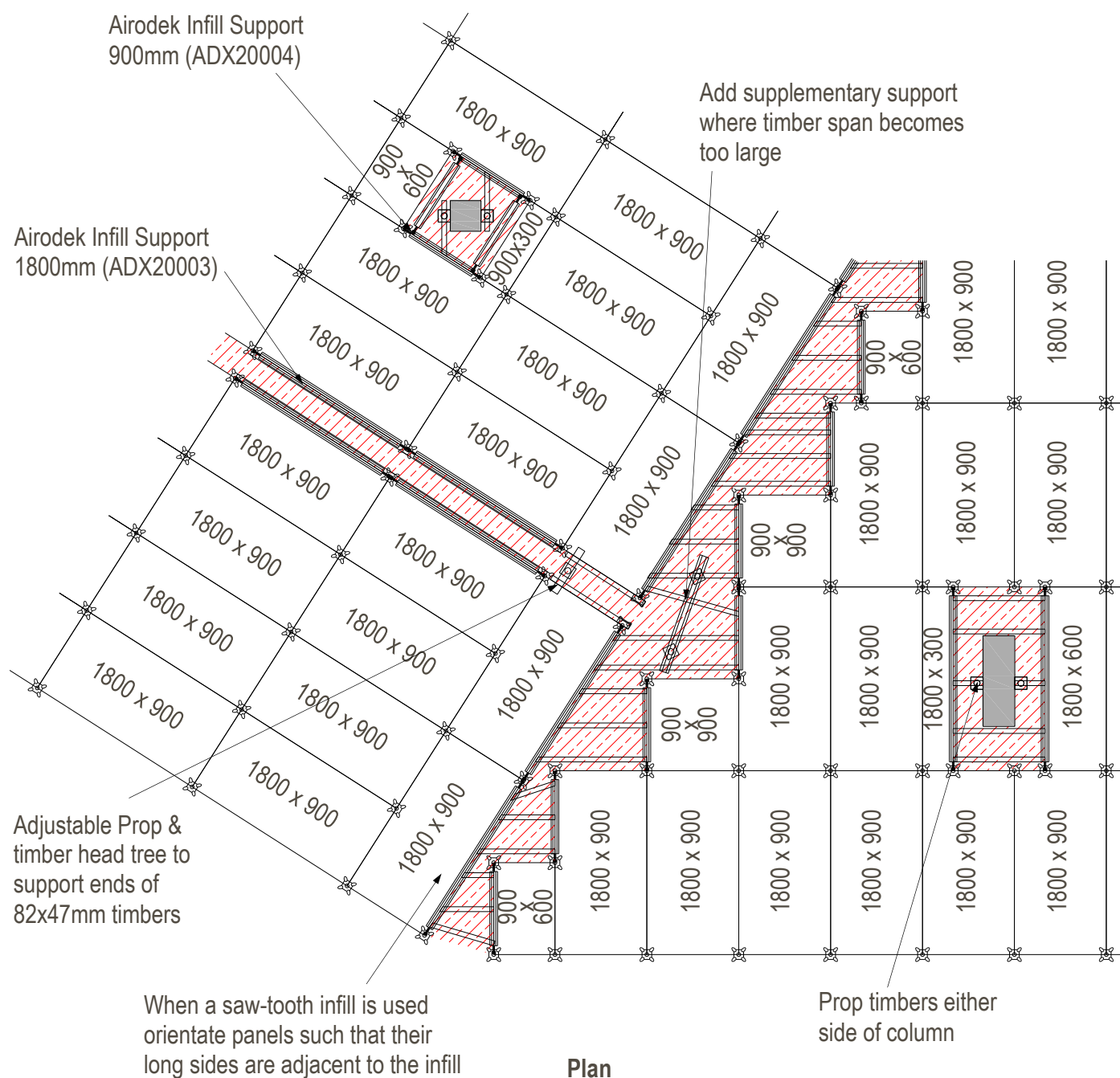
The example below shows infill adjacent to perimeter walls using Airodek Infill Bracket & Support Block Assemblies.

Note: It is only possible to fit a single 150mm deep timber on the Infill Bracket for 160mm wide Infills. In this case add an additional timber support beam cut to fit close to the Airodek panels seated on the Support Block Assemblies to support the edge of the plywood nearest the panels.



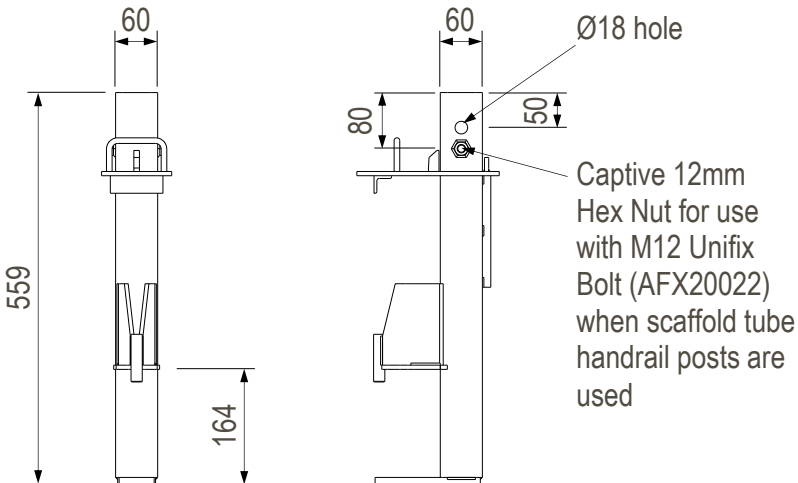
Example Showing Non-Standard Infills

Note: Where spanning from infill beams with timbers use either 66mm deep x 47mm wide timbers or 147mm deep x47mm wide timbers notched at the ends so that they are 66mm deep.



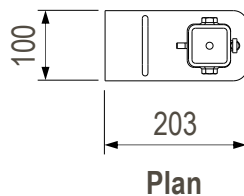
Airodek Crown Ultraguard Socket (ADX20051) weight 7.15kg

Use to connect Ultraguard Posts or scaffold tube posts to Airodek Steel Crowns around the perimeter of an Airodek Prop and Panel falsework solution. (Can also be used between Decking Beams when supported by the Airodek Steel Crown).

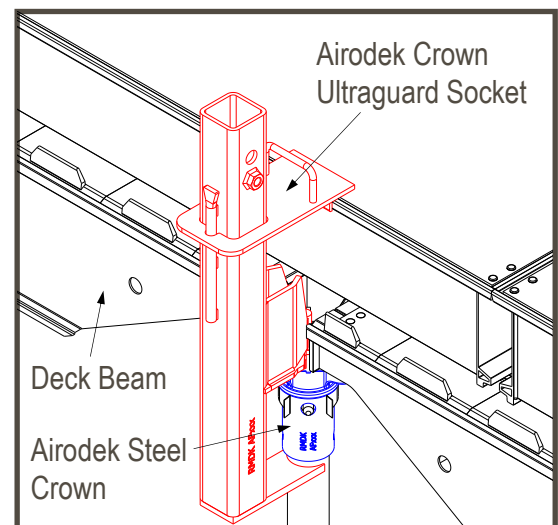
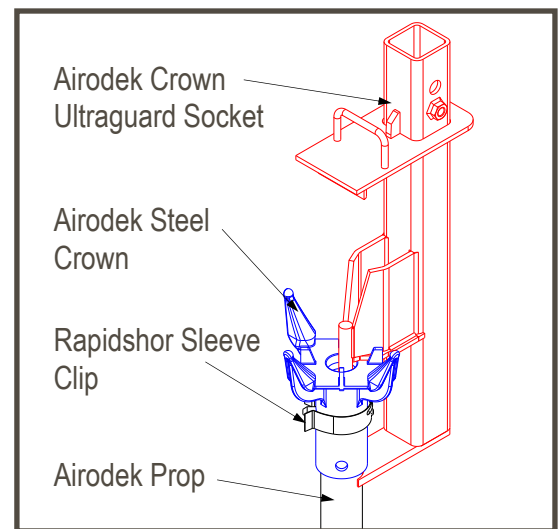
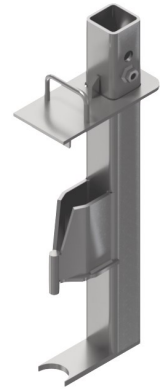


Front Elevation

Side Elevation



Plan

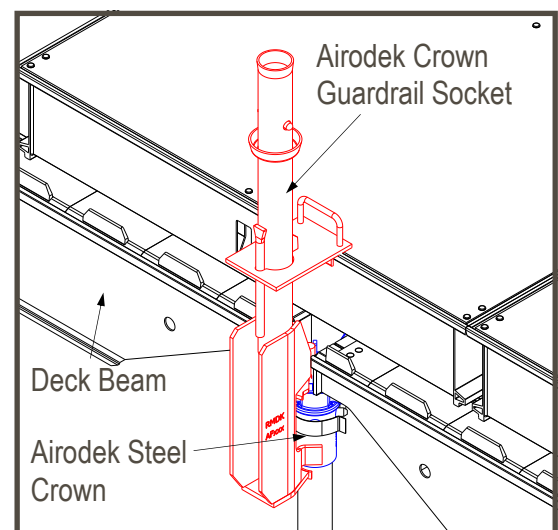
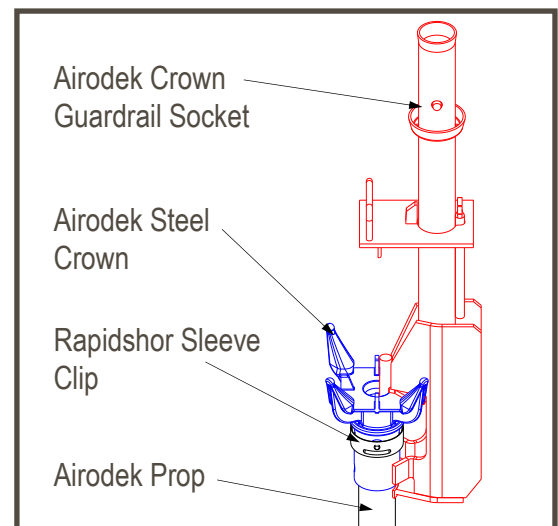
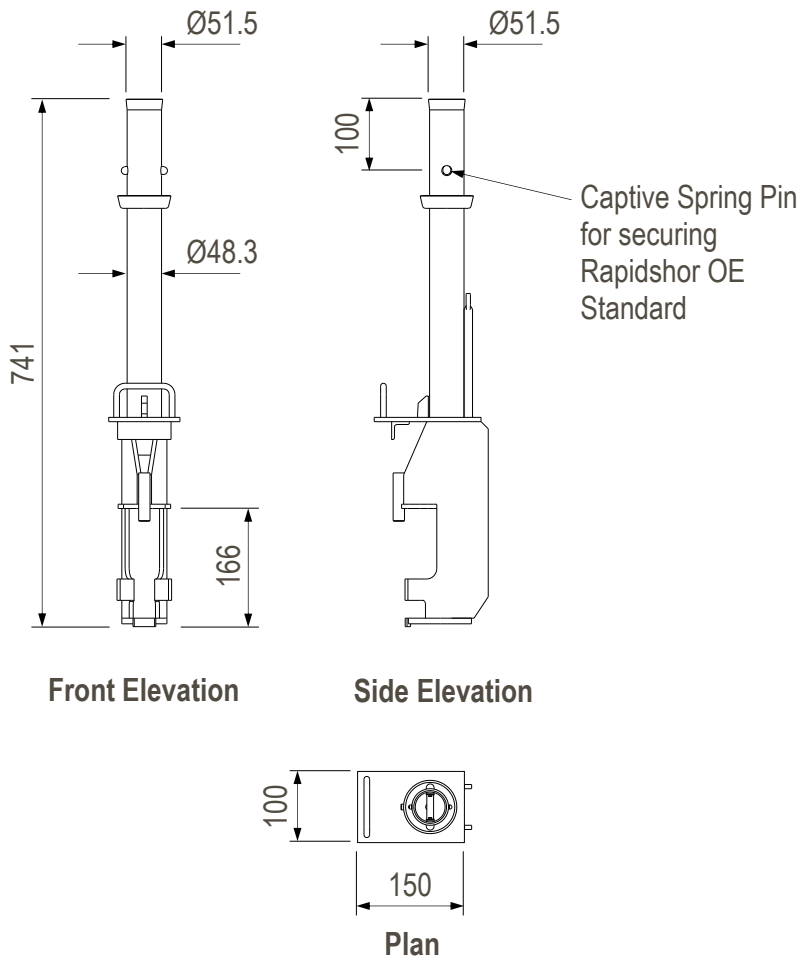


Code	Description	Weight
SAX11200	Ultraguard Post 1.2m	5.51 kg
SAX12550	Ultraguard Barrier 2550mm	17.3 kg
SAX13150	Ultraguard Barrier 3150mm	25.0 kg

Airodek Crown Guardrail Socket (ADX20018) weight 5.43kg

An alternative guardrail adapter used to connect Rapidshor OE Standards to Airodek Steel Crowns around the perimeter of an Airodek Prop and Panel falsework solution. (Can also be used between Deck Beams when supported by the Airodek Steel Crown).

Note: Rapidshor Sleeve Clip is NOT required with this unit.

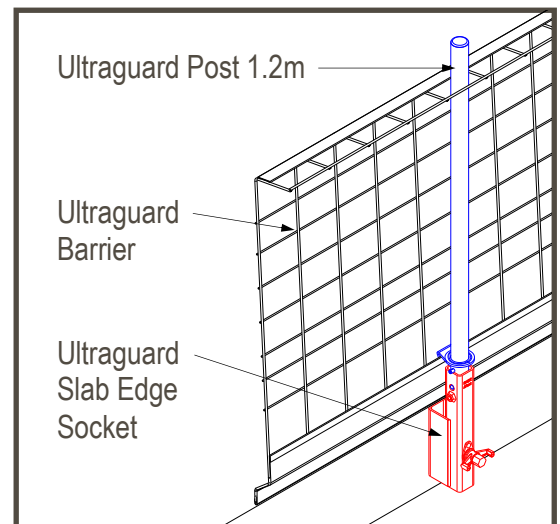
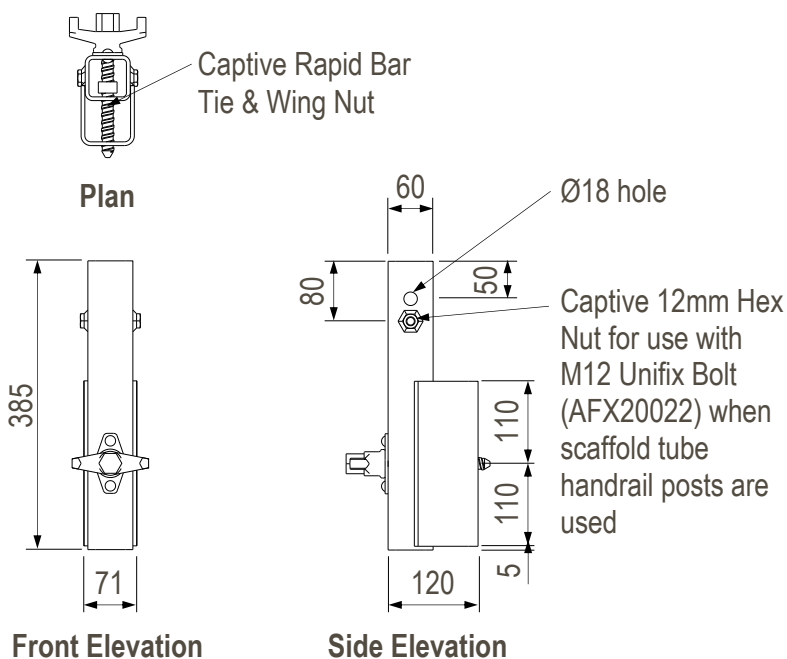


Code	Description	Weight
RSX41000	Rapidshor Standard OE 1000mm	5.36 kg
RSX20600	Rapidshor Ledger 600mm	3.08 kg
RSX20900	Rapidshor Ledger 900mm	3.96 kg
RSX21800	Rapidshor Ledger 1800mm	6.59 kg
RSX10005	Rapidshor Joint Sleeve 300mm	1.53 kg
RSX10009	Rapidshor Sleeve Clip	0.09 kg
SFX10026	Toe Board Clip	0.19 kg
SFX20240	Scaffold Board 2.4m - No. 2	11.0 kg
SFX20300	Scaffold Board 3.0m - No. 3	14.0 kg
SFX20395	Scaffold Board 3.95m	17.7 kg

Ultraguard Slab Edge Socket (SAX10032) weight 5.74kg

Use in conjunction with Ultraguard Post 1.2m & Ultraguard Barrier to provide edge protection at the non wet-deck levels. Enables Ultraguard perimeter edge protection to be attached to the slab edge, so that falsework legs too can sit closer to same. Ultraguard Barriers are then able to pass outside of perimeter columns, thus standardising the centres of edge sockets and reducing the overall number of barriers used around the outside of the structure.

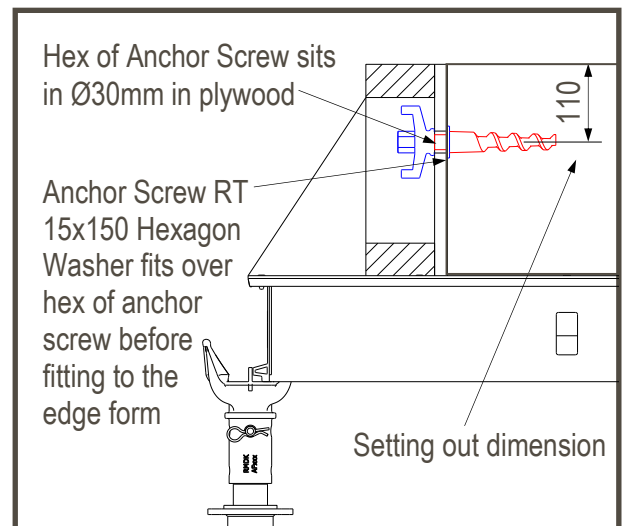
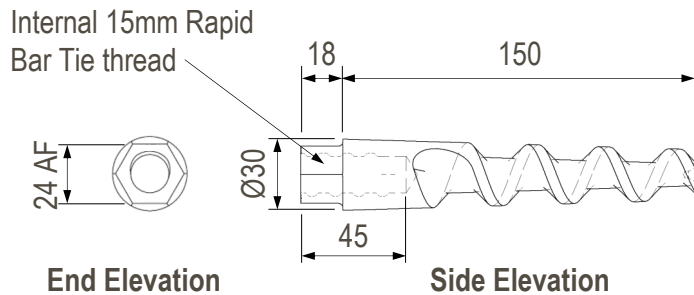
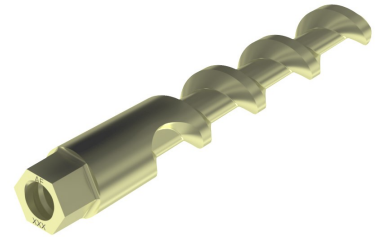
Connects by inserting the captive Rapid Bar Tie into an Anchor Screw RT15x150 previously cast into the slab edge - see [Sheet 32](#).



Code	Description	Weight
SAX11200	Ultraguard Post 1.2m	5.51 kg
SAX12550	Ultraguard Barrier 2550mm	17.3 kg
SAX13150	Ultraguard Barrier 3150mm	25.0 kg

Anchor Screw RT15x150 (AGX40062) weight 0.40kg

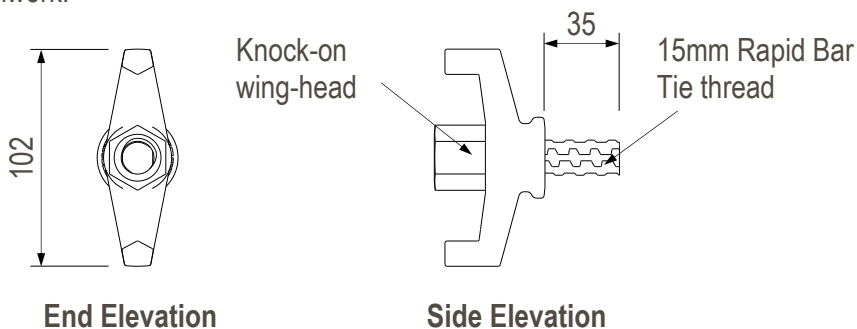
Cast into the slab edge to provide an anchorage point for the Ultraguard Slab Edge Socket (SAX10032). Secure to timber slab edge formwork using Anchor Screw RT15x150 Setting Bolt & Hexagon Washer (SAX10033 + AGX40067). **Max AWL = 19kN tension in 21N/mm² concrete**



Important! Coat outer surfaces with Anchor Screw Grease (OCU10002) to facilitate removal.

Anchor Screw RT15x150 Setting Bolt (SAX10033) weight 0.46kg

Use in conjunction with Anchor Screw RT15x150 Hexagon Washer (AGX40067) to secure an Anchor Screw RT15x150 (AGX40062) to timber slab edge formwork.



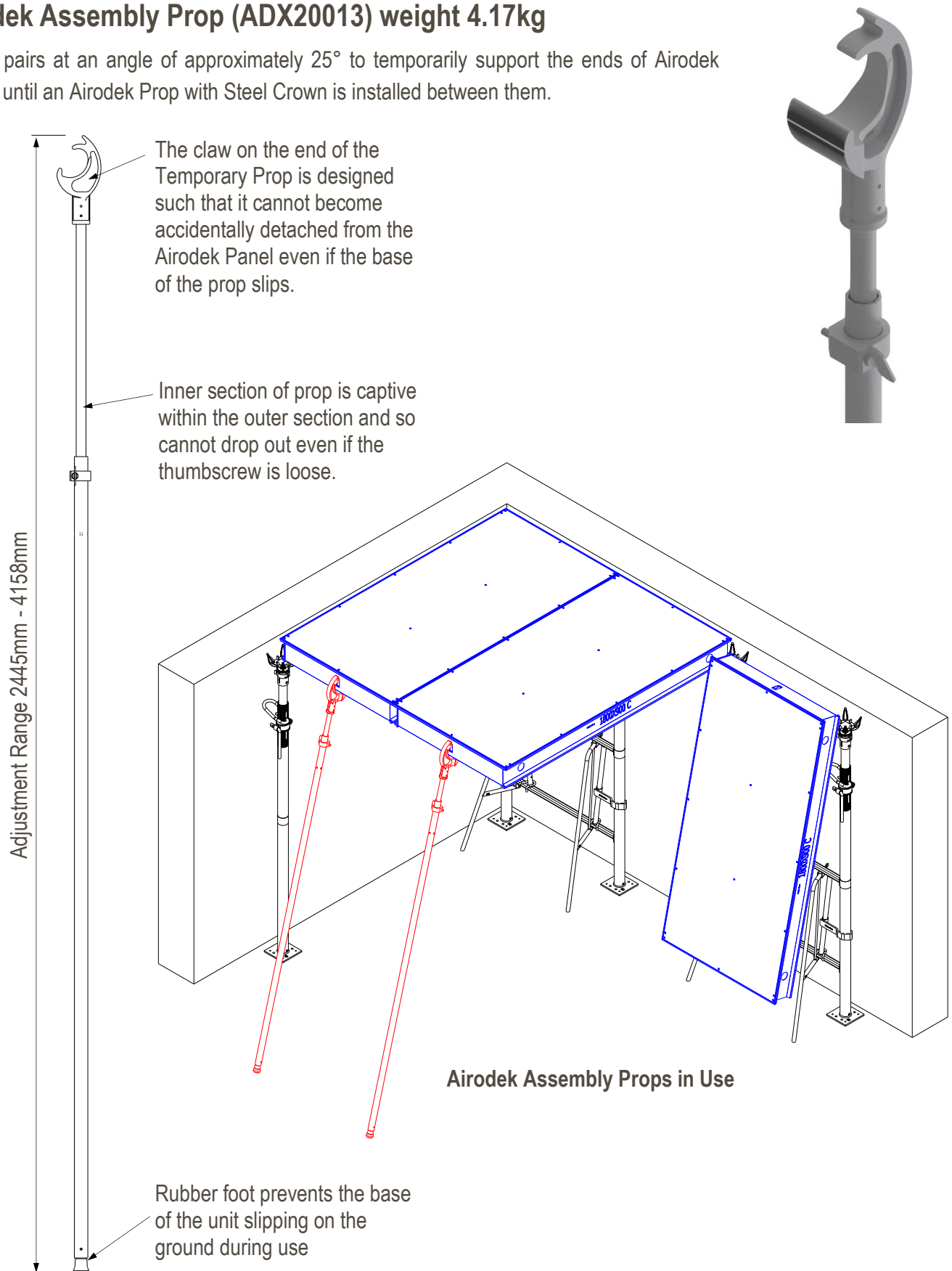
Anchor Screw RT15x150 Hexagon Washer (AGX40067) weight 0.03kg

Use in conjunction with Anchor Screw RT15x150 Setting Bolt (SAX10033) to secure an Anchor Screw RT15x150 (AGX40062) to timber slab edge formwork.



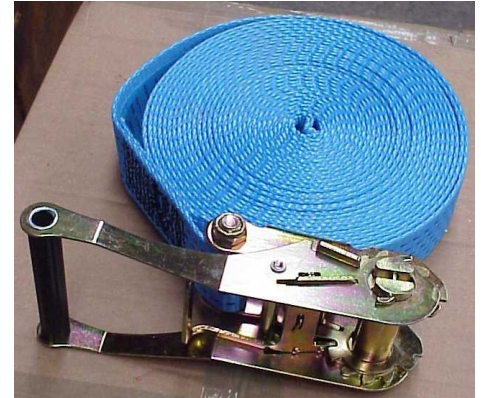
Airodek Assembly Prop (ADX20013) weight 4.17kg

Use in pairs at an angle of approximately 25° to temporarily support the ends of Airodek Panels until an Airodek Prop with Steel Crown is installed between them.



Rapidclimb Ratchet Lashing 12m (RCX10008) weight 2.20kg

A multipurpose ratchet lashing supplied with 12 metres of 50mm wide, endless polyester webbing. Used for providing horizontal restraint to the underside of Airodek Prop & Panel, XL or Decking at the edge of a pour where the head fixity provided by the interface with the permanent works is in doubt and/or there is a possibility of load on soffit cantilevers lifting the rear of the supporting beam. Cut the webbing length to suit the application on site. **AWL 25kN.**

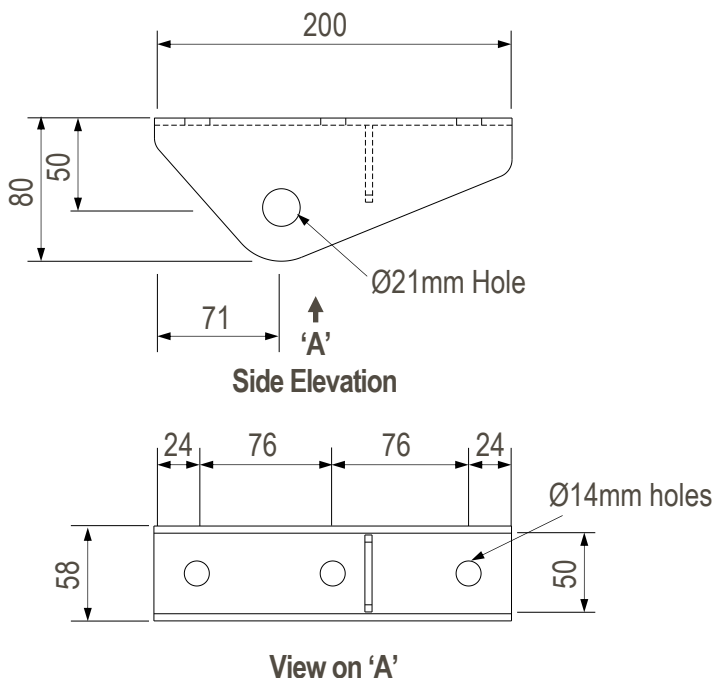


Note that inclined webbing lashings are highly elastic and rely on user pre-tensioning against stiff supports to the restrained components in both vertical and horizontal directions.

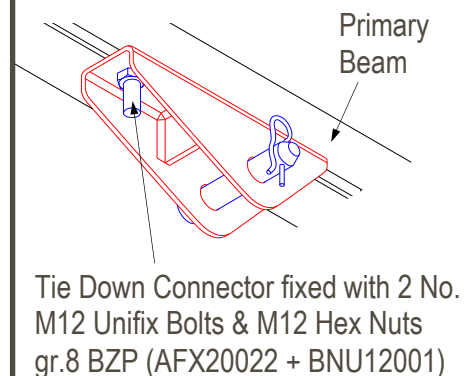
Flexidek Tie Down Connector (FXX10008) weight 0.93kg

Used in conjunction with a Ratchet Lashing or Rapid Tie accessories to restrain cantilever beams against overturning and also to provide lateral top restraint to the decking system at edges where the permanent works cannot.

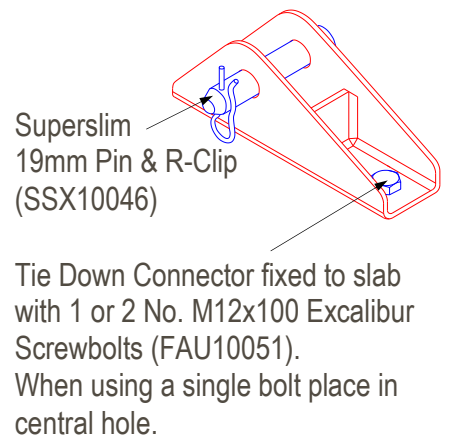
AWL = 9.0kN at any angle with 2 outer holes connected



Fixing to Underside of Primary Beam



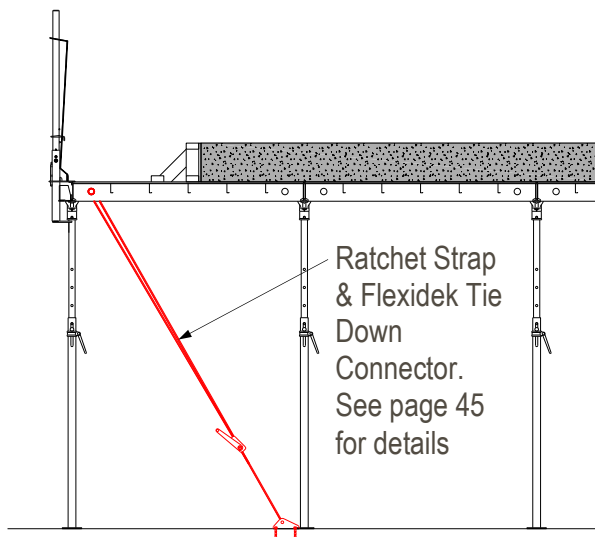
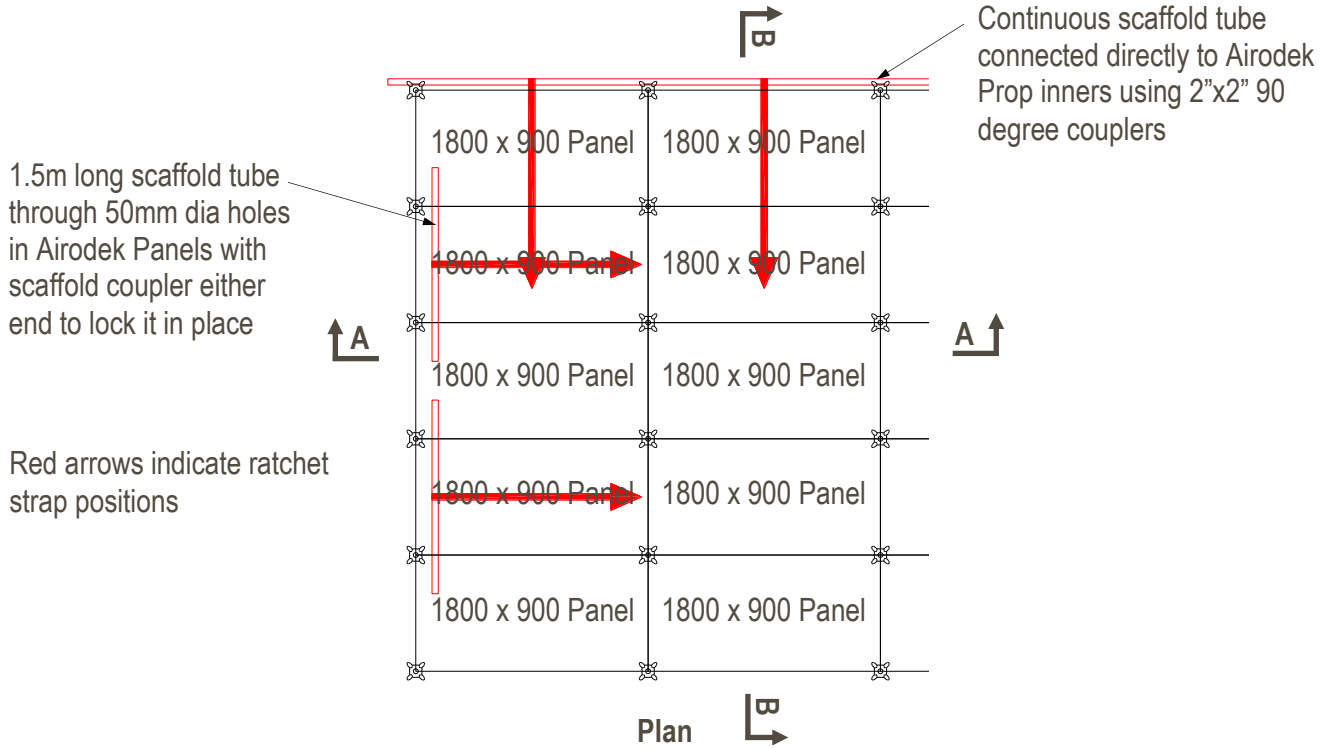
Fixing at Base of Restraint



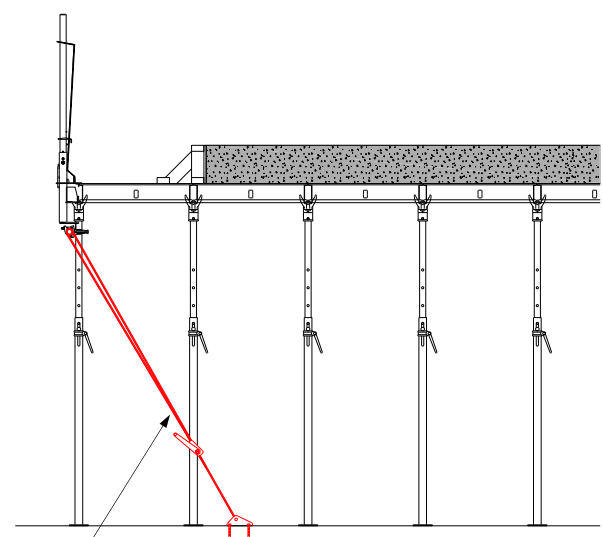
Horizontal Restraint Details - Prop & Panel

The example below shows the preferred method of providing horizontal restraint at leading edges of prop and panel falsework.

Note: Restraint details also apply where there is a break in soffit continuity such as at a step in a slab.



Section A-A



Section B-B

Airodek Prop & Panel XL



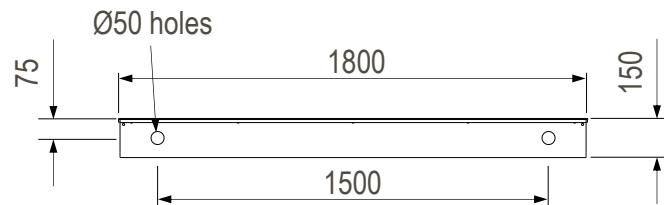
Some Components are used from the Airodek Prop and Panel System, but the Airodek Standard Props must not be used with the Airodek XL Panels.

Airodek XL Panel 1800 x 1800mm - Composite (ADX18180) weight 48.3kg

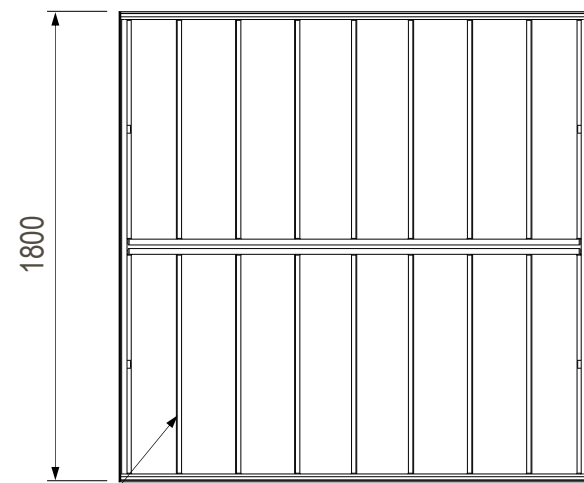
Manufactured from a welded, lightweight, powder coated, aluminium extruded frame with 6mm thick Alkus face material.

Maximum Allowable Slab Thickness = 450mm

(can be increased to 600mm if central prop & crown is added)

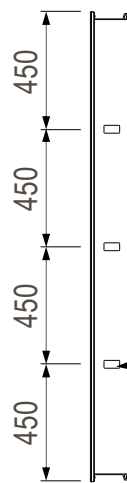


Side Elevation



ribs @ 220mm
nominal ctrs

Plan



End Elevation



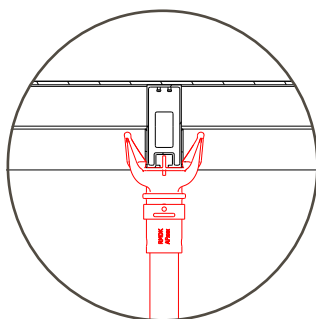
Slot in central profile facilitates connection of Flexidek Tie Down Connector (FXX10008).

Note: Ensure that this profile is parallel with the direction of any lateral restraint chains/lashings.

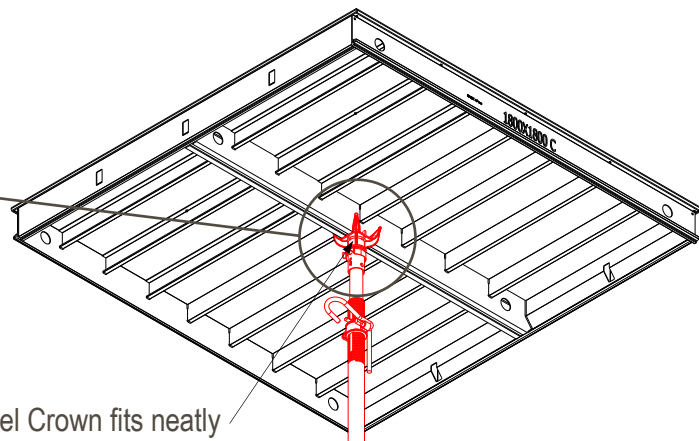
Panels can be rotated on plan to accommodate lateral restraints in either direction.

60mm x
30mm slots

Note: Further checks should always be made on the allowable working load of the falsework system used for support.



Section Through Central Profile



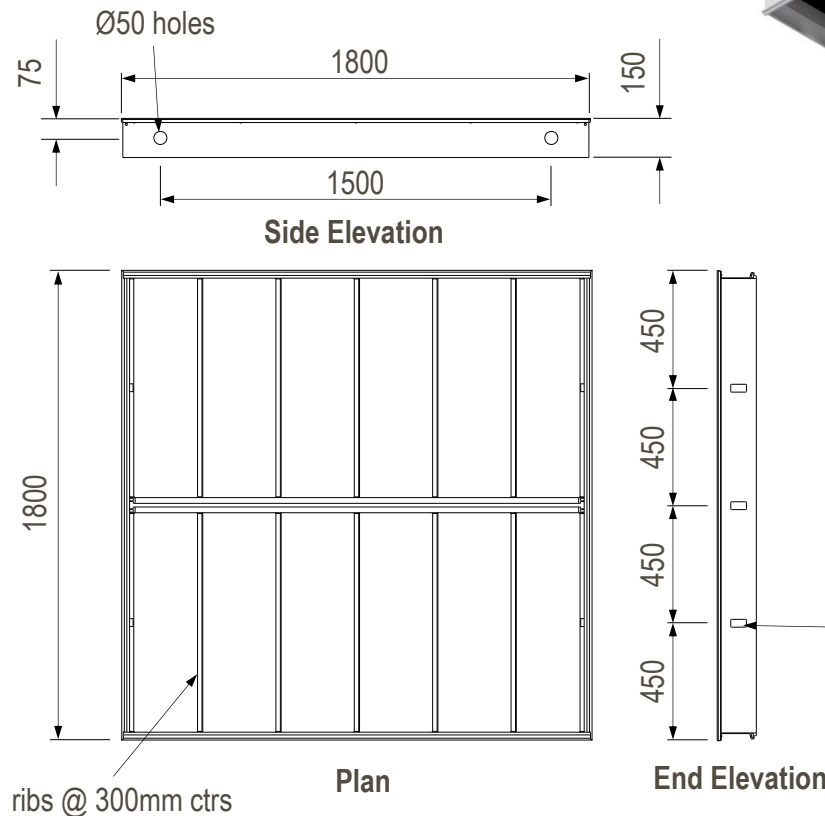
Airodek Steel Crown fits neatly
around the XL Panel central profile
where additional support is required

Airodek XL Panel 1800 x 1800mm - Plywood (ADX40502) weight 46.6kg

Manufactured from a welded, lightweight, powder coated, aluminium extruded frame with 9mm thick phenolic plywood face material.

Maximum Allowable Slab Thickness = 450mm

(can be increased to 600mm if central prop & crown is added)

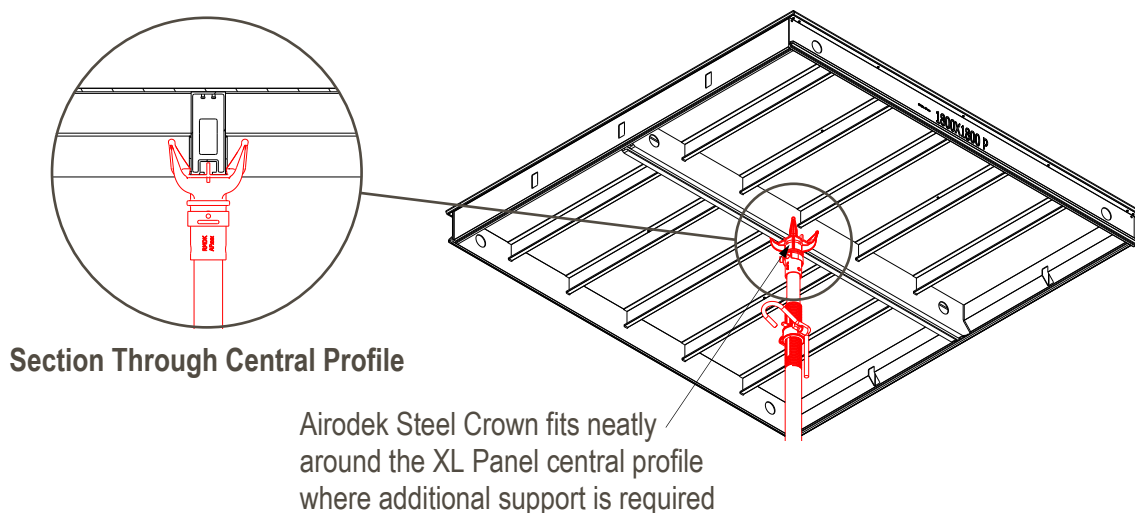


Slot in central profile facilitates connection of Flexidek Tie Down Connector (FXX10008).

Note: Ensure that this profile is parallel with the direction of any lateral restraint chains/lashings.

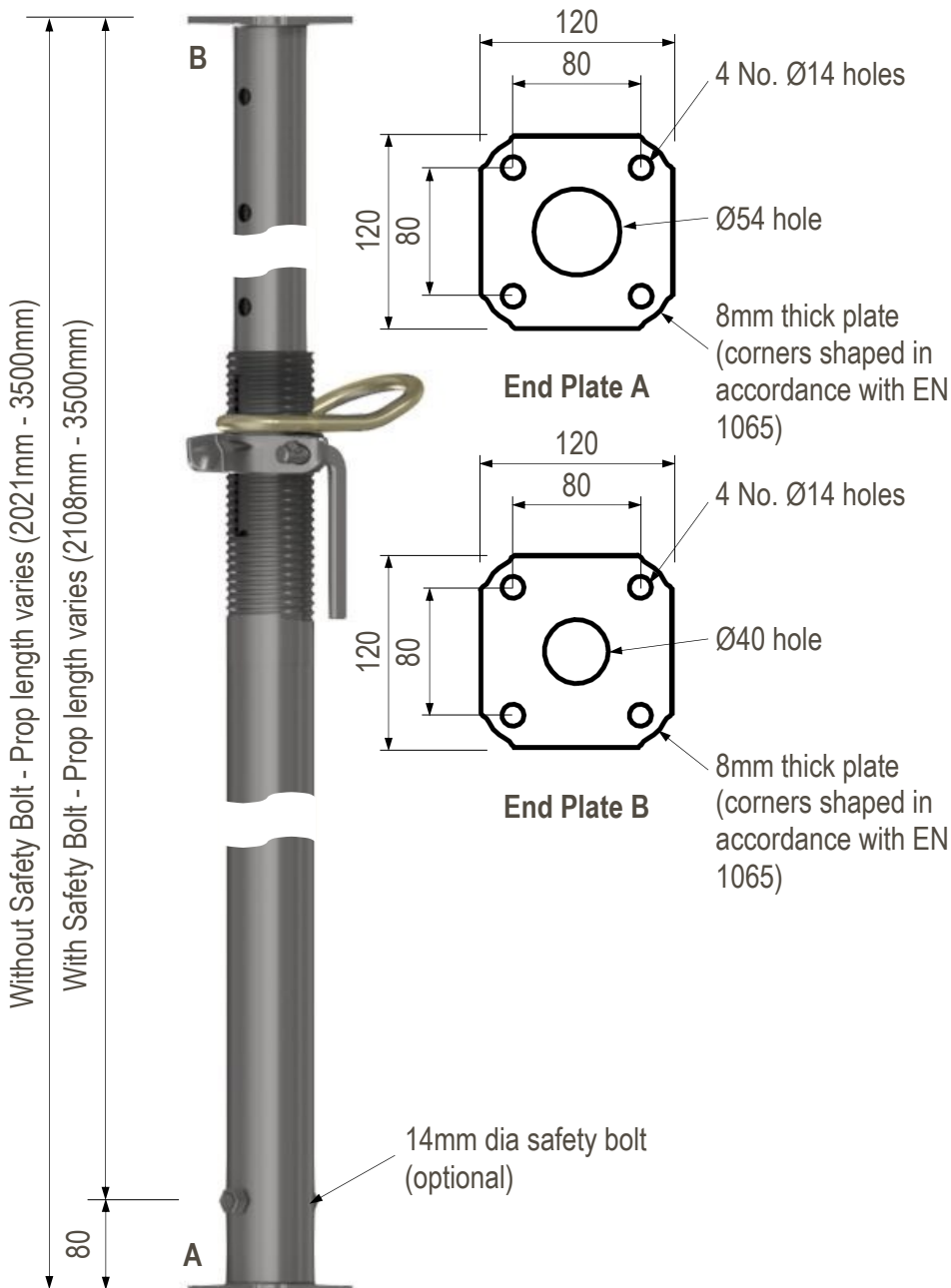
Panels can be rotated on plan to accommodate lateral restraints in either direction.

Note: Further checks should always be made on the allowable working load of the falsework system used for support.



EuroProp E35 Prop 2.02m - 3.5m Galv. (PRX10005) weight 21.7kg

A versatile Class 'E' prop with an Allowable Working Load of at least 30kN over its entire range in accordance with EN 1065. The 180mm additional length of the Airodek Prop Adapter has been allowed for in the table. Allowable working loads stated are for props erected within 1° of plumb on a flat base with load applied concentrically at the top.

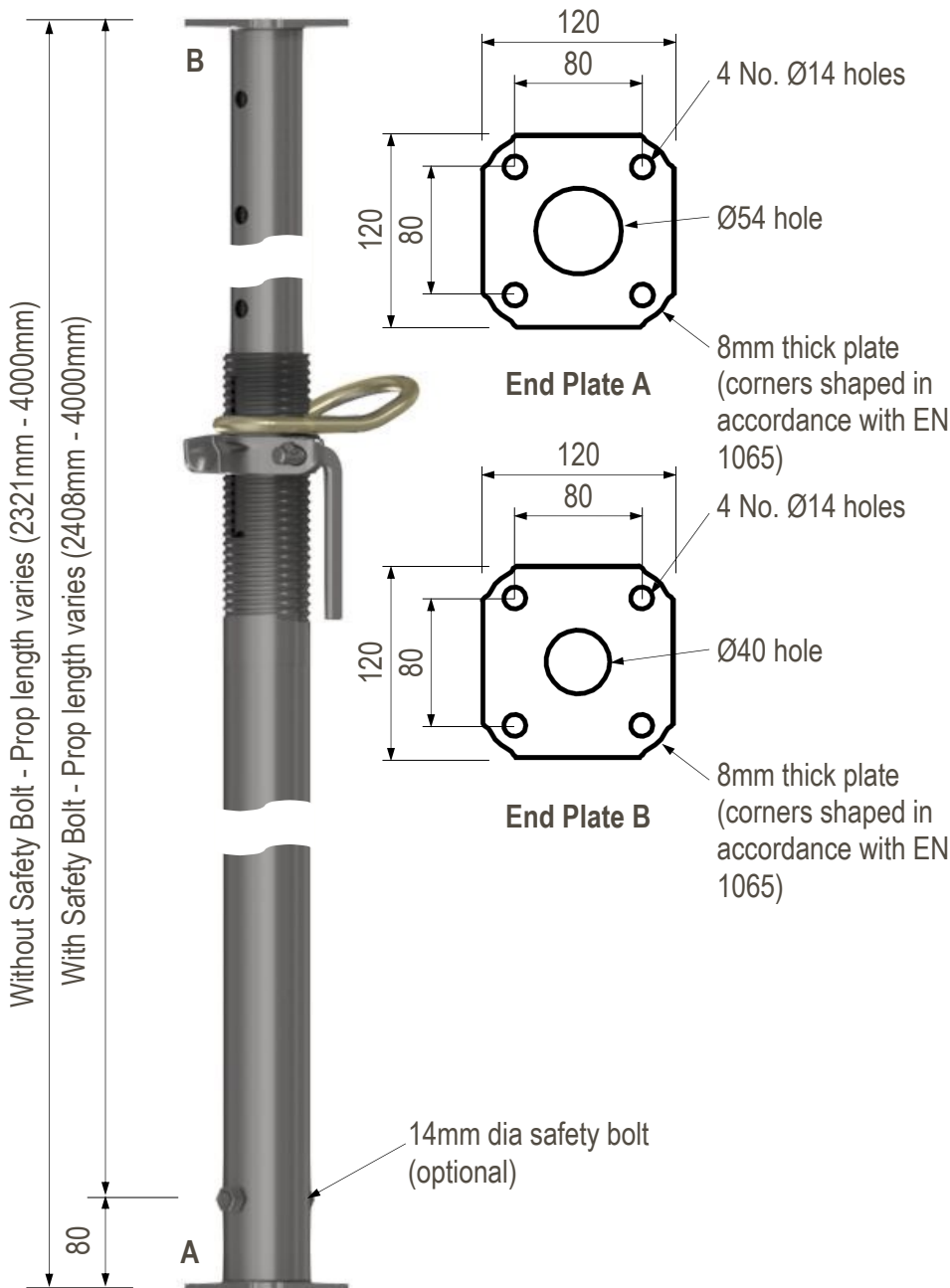


Loads with Airodek Prop & Panel XL		
Prop Length (m)	Floor-Soffit (m)	AWL* (kN)
2.07	2.4	40
2.17	2.5	40
2.27	2.6	40
2.37	2.7	40
2.47	2.8	40
2.57	2.9	40
2.67	3.0	40
2.77	3.1	40
2.87	3.2	39.5
2.97	3.3	38
3.07	3.4	36
3.17	3.5	33.5
3.27	3.6	31
3.37	3.7	29
3.47	3.8	27
3.50	3.83	26

* Note: load capacity depends upon correct installation of prop pin.

EuroProp E40 Prop 2.32m - 4.0m Galv. (PRX10006) weight 30.3kg

A versatile Class 'E' prop with an Allowable Working Load of at least 30kN over its entire range in accordance with EN 1065. The 180mm additional length of the Airodek Prop Adapter has been allowed for in the table. Allowable working loads stated are for props erected within 1° of plumb on a flat base with load applied concentrically at the top.

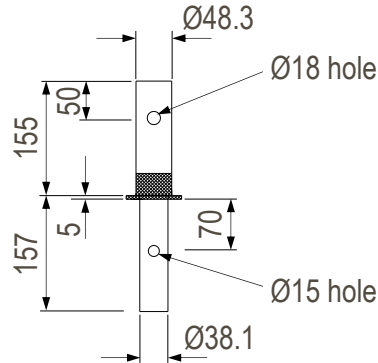
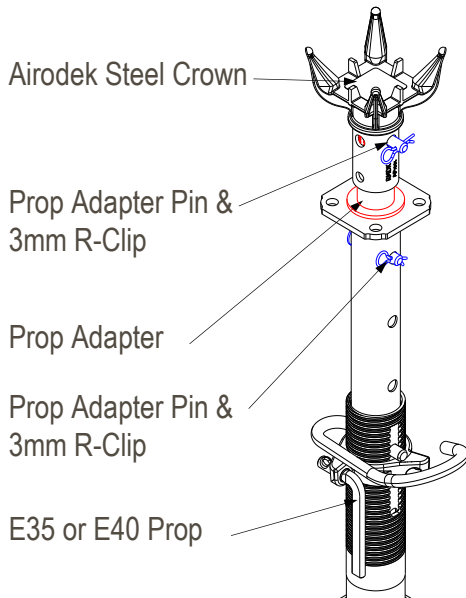


Loads with Airodek Prop & Panel XL		
Prop Length (m)	Floor-Soffit (m)	AWL* (kN)
2.37	2.7	40
2.47	2.8	40
2.57	2.9	40
2.67	3.0	40
2.77	3.1	40
2.87	3.2	40
2.97	3.3	40
3.07	3.4	40
3.17	3.5	40
3.27	3.6	40
3.37	3.7	39.8
3.47	3.8	38
3.57	3.9	36
3.67	4.0	33.5
3.77	4.1	31
3.87	4.2	29
3.97	4.3	27

* Note: load capacity depends upon correct installation of prop pin.

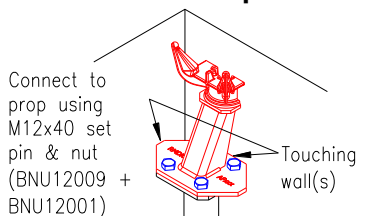
Airodek Prop Adapter (ADA10050) weight 1.02kg

Use in conjunction with Airodek Prop Adapter Pin and Superslim 3mm R-Clip (ADA10565 + SSX10045) as a transition unit to connect a Steel Crown or Airodek Drophead onto an E35 or E40 EuroProp. **AWL = 40kN**



Code	Description	Weight
ADA10050	Airodek Prop Adaptor	1.02 kg
ADA10055	Airodek Prop Adaptor Pin	0.11 Kg
ADX20015	Airodek Steel Crown	2.11 kg
RSX10009	Rapidshor Sleeve Clip	0.09 kg
SSX10045	Superslim 3mm R Clip	0.01 kg

Detail - Half Crown Adaptor - EuroProp



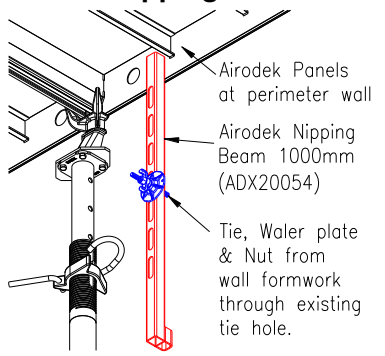
QTY	CODE	DESCRIPTION	Wt.(kg)
1	ADX20053	Airodek Half Crown EuroProp	2.45

Airodek Half Crown - EuroProp (ADX20053) wt. 2.47kg

Used where panels are to be fitted hard against previous cast wall, including at internal corners, eliminating the need for a timber infill. Fix to EuroProps using 4No M12x40 Set Pins & Nuts (BNU12009 + BNU12001). **AWL = 20kN**. Connect to the prop with the prop-pin parallel to the wall to facilitate striking.



Detail - Nipping Beam 1.0m



Airodek Nipping Beam 1000mm (ADX20054) wt. 3.24kg

Used to clamp first-erected panels to previously cast work to provide lateral restraint and stiffness prior to allowing operatives onto the deck to place infill formwork. **Allowable BM 0.68kNm**.

19mm slots at 100mm ctrs are provided to give flexibility for connecting to existing tie holes. Using 15 dia. Rapid Bar Tie. If tie holes are not within reach, post drill holes & use an M16x150 Excalibur Screwbolt. Position close to panel corners spaced at 3.6m max centres.



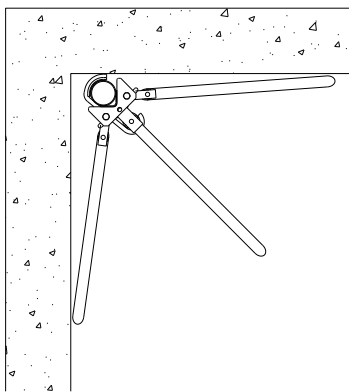
Prop Stabilisation Tripods

Fold-flat units used to stabilise props during assembly, Tripods feature a sliding Stem-Lock mechanism that captivates the prop, and is tightened and released by hammer.

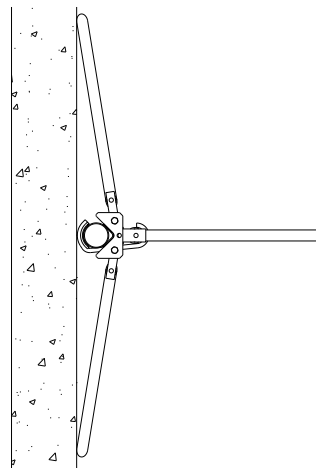
Capable of holding different sized props, with diameters from 48.3mm to 80mm, Alshor Plus Tripods are used to stabilise props when the floor to soffit height is under 3200mm, whilst the Heavy Duty Prop Tripod is used above this height.

Use on every prop in the first erected line, and then on a 3.6m grid. Once an area of falsework is laterally top-restrained by placing the perimeter infills, Tripods in that area can be removed and moved forward enabling the erection of further areas, minimising the number required.

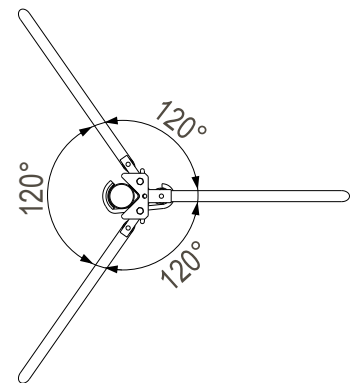
Use in conjunction with Airodek Nipping Beams before allowing personnel to access the soffit to place perimeter infill formwork



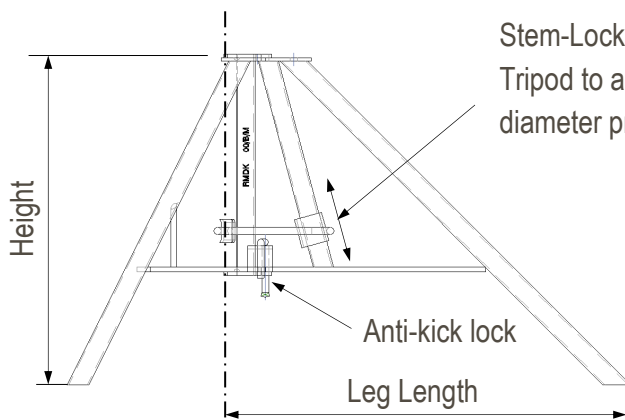
Prop in Corner



Prop Against Wall



Prop in Open Areas



Stem-Lock travels down frame of Tripod to accommodate different diameter props

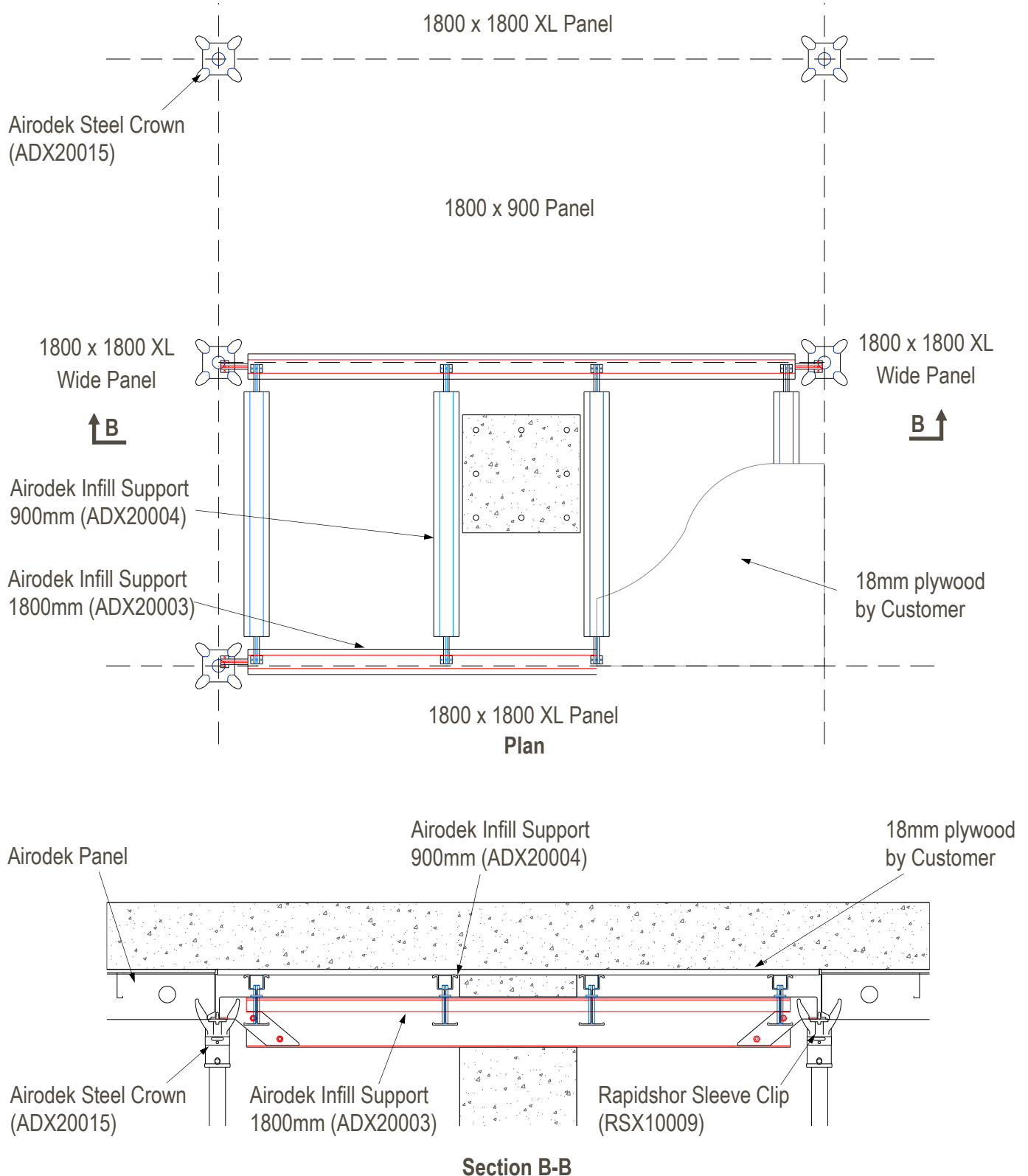


Important! In corner and against wall situations, the Anti-kick lock will be raised and disengaged. Care should be given to prevent movement of these tripods once installed

Code	Description	Weight	Height	Leg Length	Use with
ASX10060	Alshor Plus Leg Tripod	11.0 kg	568	699	E35
PRM00011	Heavy Duty Prop Tripod	12.5 Kg	876	1010	E40

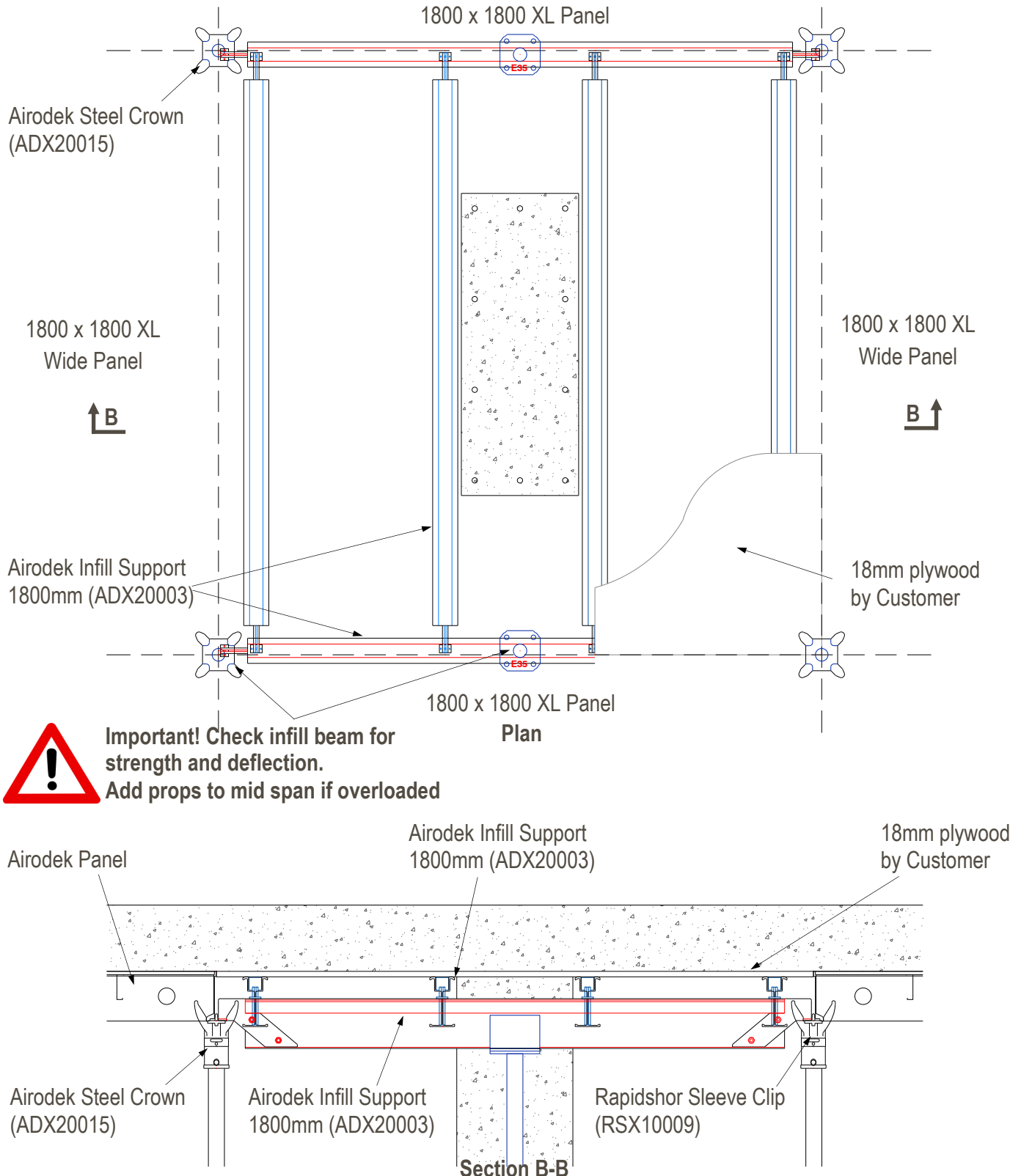
1800 x 900 Column Infill with Aluminium Infill Beams and XL Panel.

The example below shows an 1800x900mm infill. Primary Infill Beams (i.e. the Infill Beams sitting on the crown) must be fitted adjacent to the side of a panel as they will not fit adjacent to the end of a panel - refer to [Sheet 18](#).

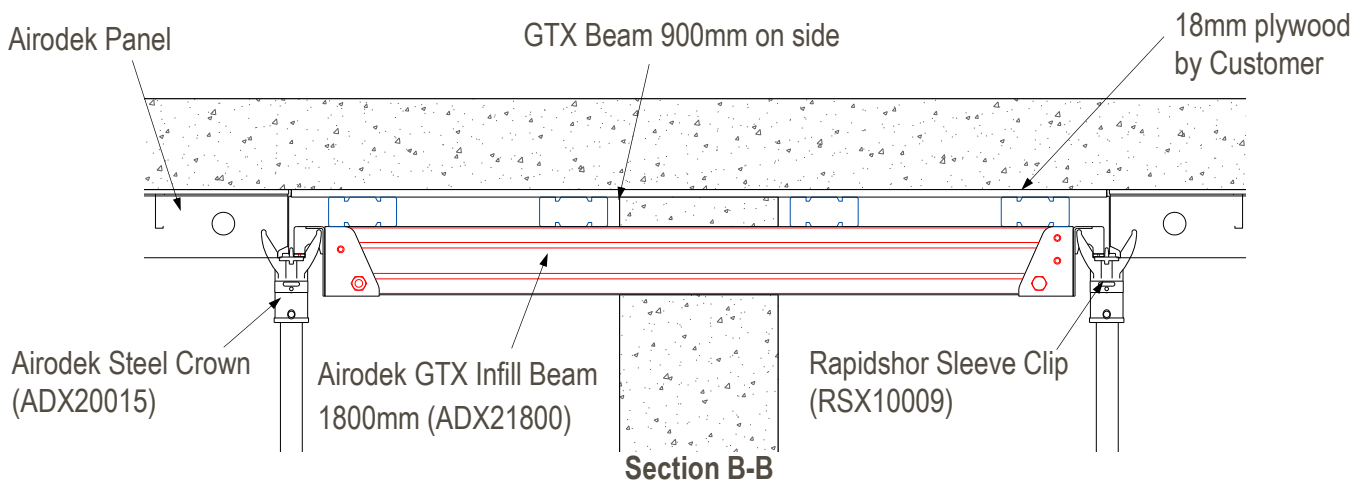
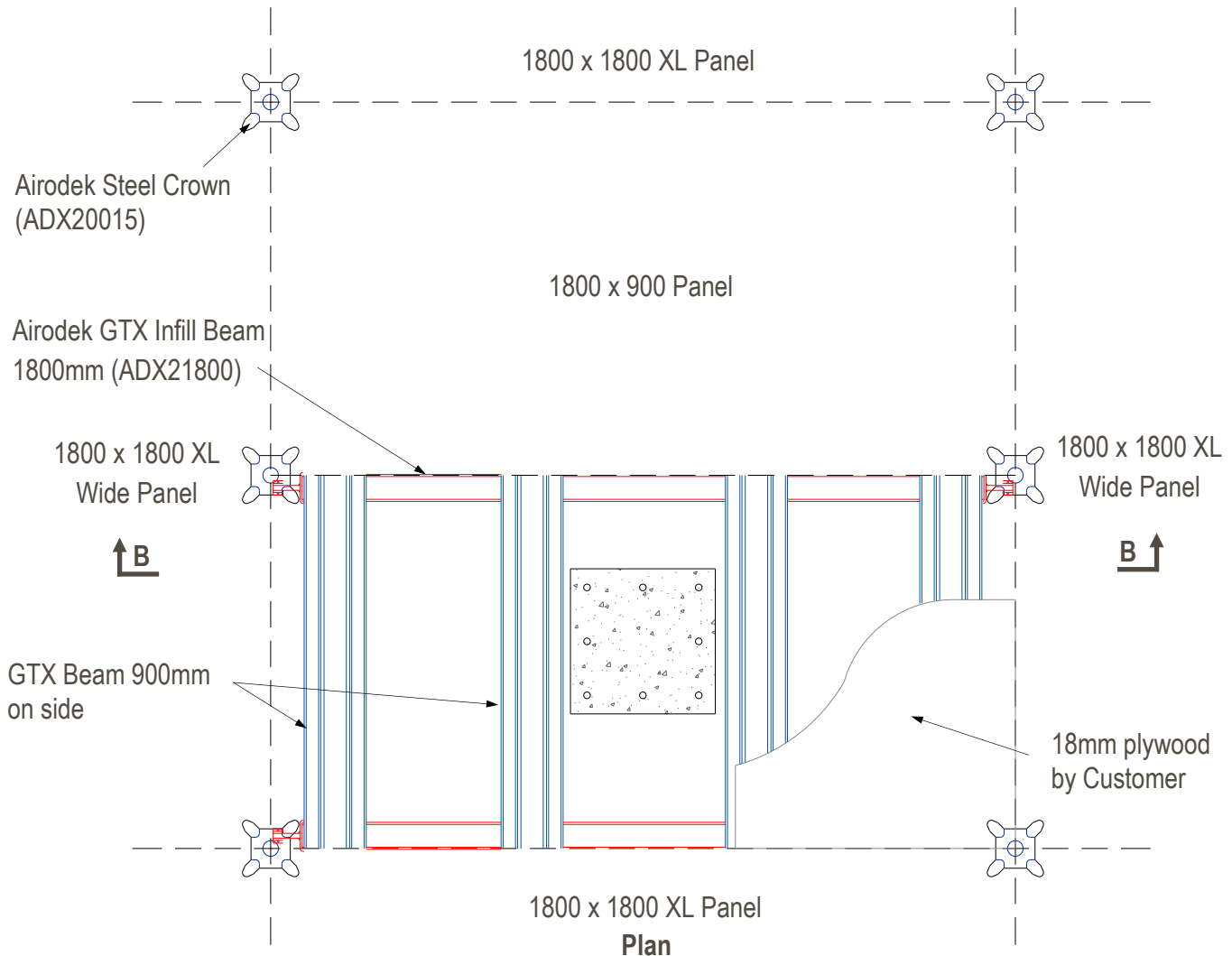


1800 x 1800 Column Infill with Aluminium Infill Beams and XL Panel.

The example below shows an 1800x1800mm infill. Primary Infill Beams (i.e. the Infill Beams sitting on the crown) must be fitted adjacent to the side of a panel as they will not fit adjacent to the end of a panel—refer to [Sheet 18](#).

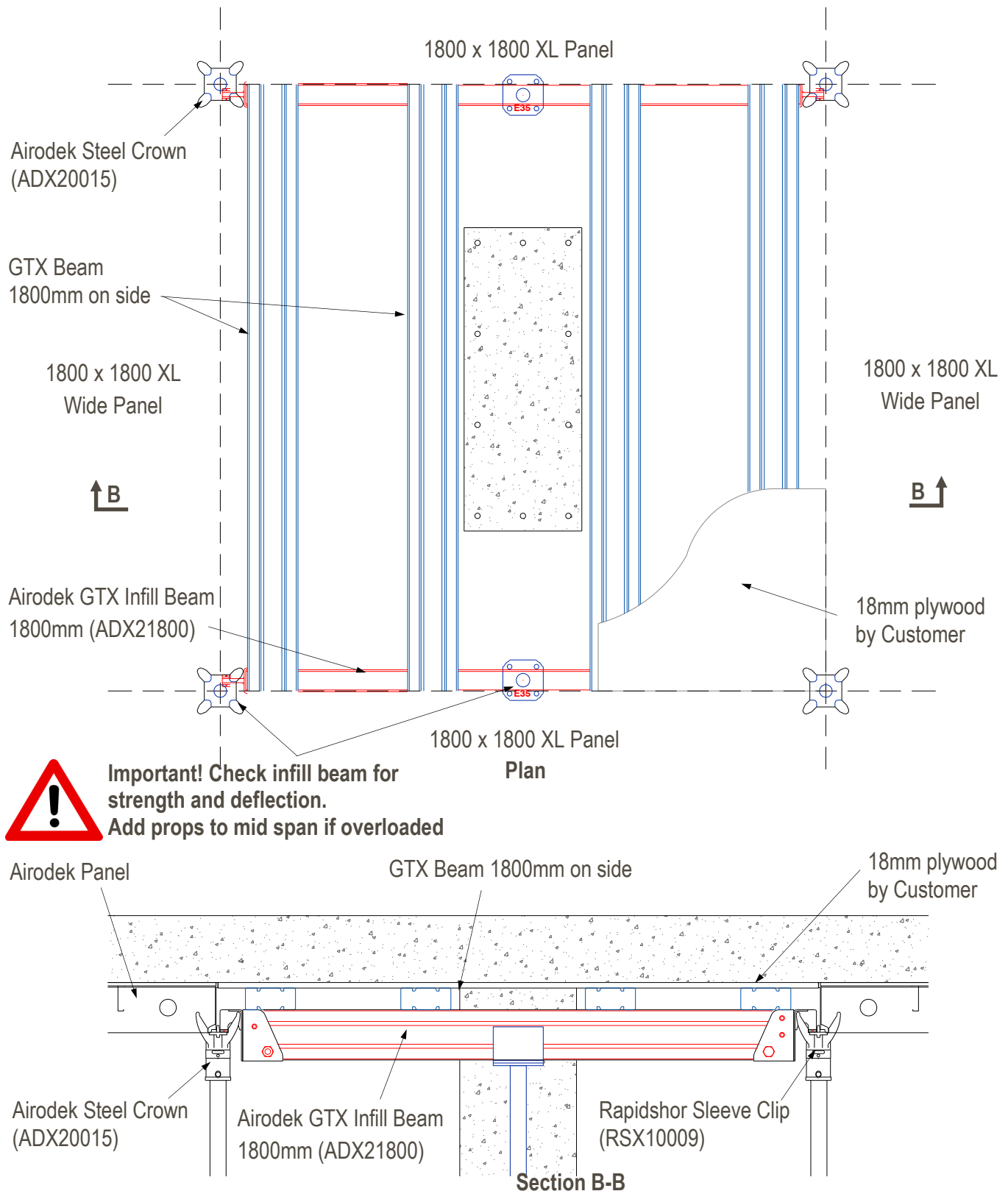


1800 x 1900 Column Infill with GTX Infill Beams and XL Panel.



Note: Typical component configurations are shown, all components require design check to ensure adequacy.

1800 x 1800 Column Infill with GTX Infill Beams and XL Panel.



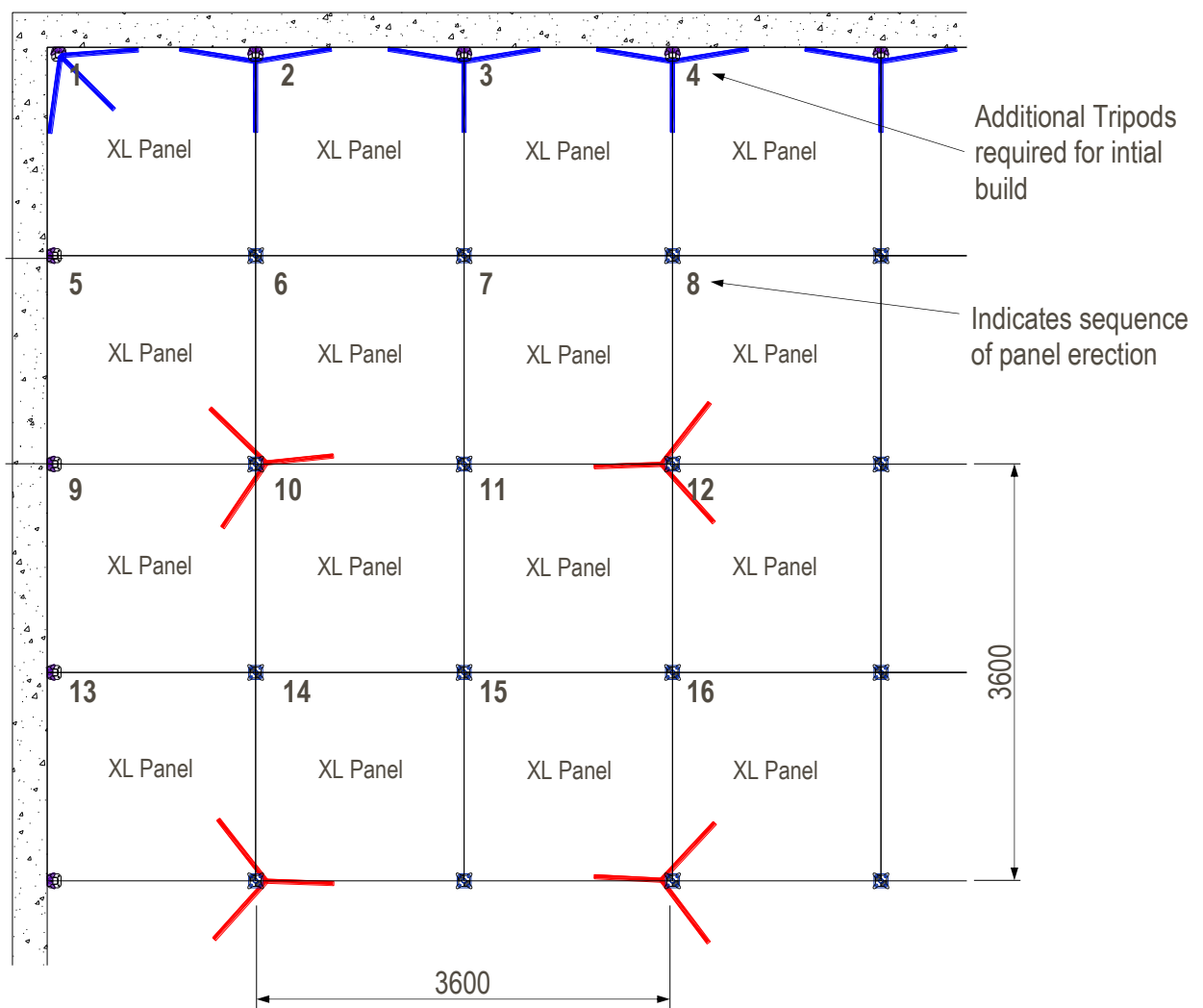
Note: Typical component configurations are shown, all components require design check to ensure adequacy.

Airodek XL Panel System - Tripod setting out - Typical Details

Tripods, used with EuroProps, provide temporary stability for the Airodek System during erection only.

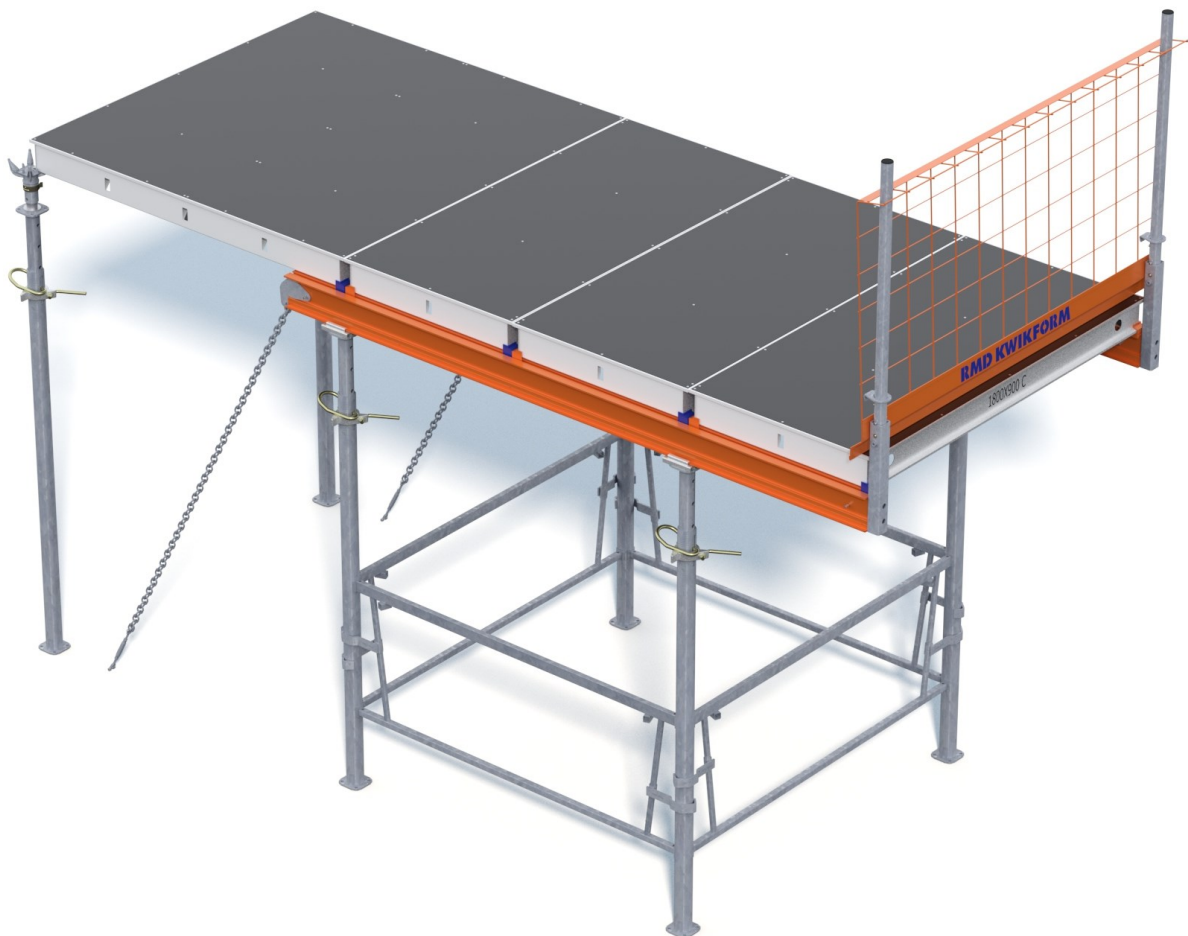
The stability of the whole system relies on the soffit formwork being laterally top-restrained (i.e. the Airodek panels or infill plywood butt snugly up against the permanent structure such as the walls and columns which then prevent the system from falling over). Where this cannot be relied upon, additional restraint will be required.

Preferably panels should be orientated so that the side of the 1800mm length runs parallel with the longest wall. Tripods are required at 3.6m centres in each direction although additional tripods will be required initially along the starting wall. When until a sufficient area of panels has been erected and infills at columns prevent lateral movement, tripods within this area can then be removed for use elsewhere on the falsework.



Typical Part Plan

Airodek Launching

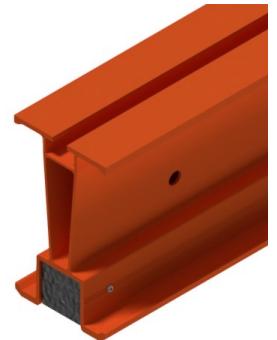


A variant of the XL Panel system that enables building perimeter soffit cantilevers to be constructed using mini EuroProp tables

Airodek Launching Alform Beam (ADX40507) weight 16.9kg

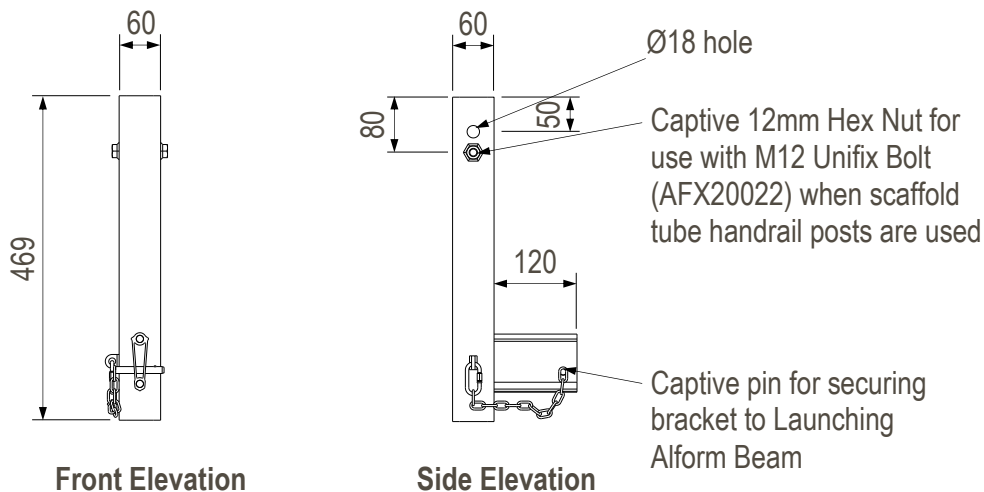
A 3m long powder coated Alform Beam used in conjunction with Panel Slider Shoes to enable Airodek Panels to be safely launched out beyond the slab edge in hi-rise building construction. The Launching Alform Beam is used inverted in this application with plastic nailing strip facing downwards.

Max Prop Rection = 45kN, Max BM = 10kNm For full Alform Beam properties, refer to Aluminium Beam Technical Data.



Airodek Launching Ultraguard Socket (ADX20052) weight 4.49kg

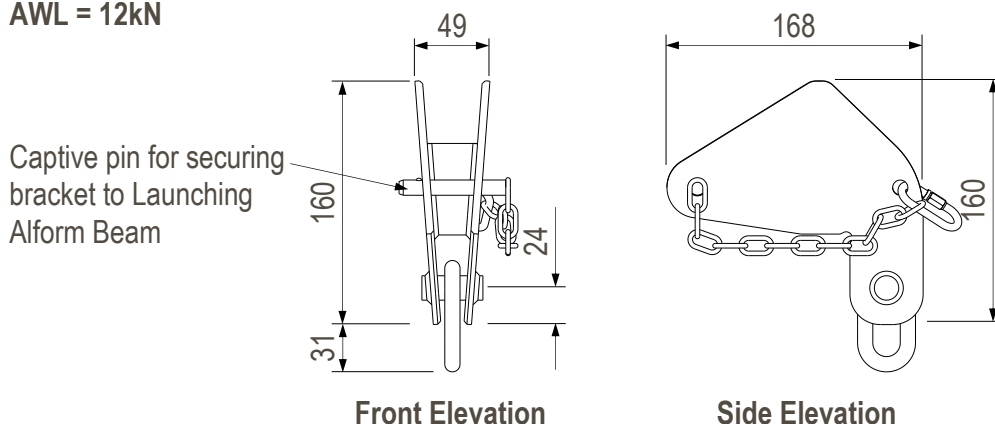
Use to connect Ultraguard Posts or scaffold tube posts to the end of cantilevered Alform Beams. A captive pin secures the socket onto the end of the beam.



Airodek Launching Tie Down Bracket (ADX40506) weight 1.42kg

Use in conjunction with chains to hold down the rear of the Alform Launching Beam to prevent it overturning. Connect to the Alform Launching Beam using the captive pin that is chained to the unit.

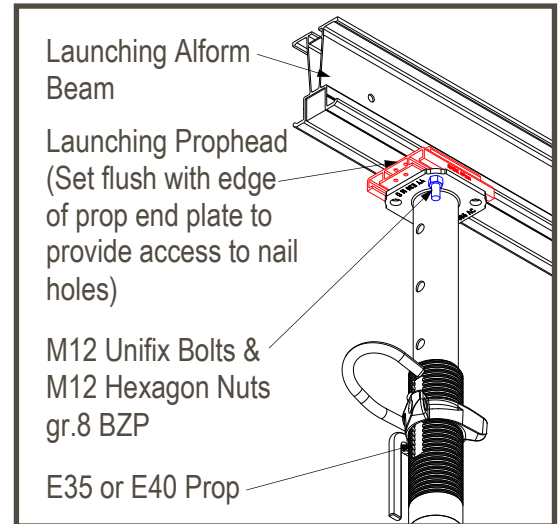
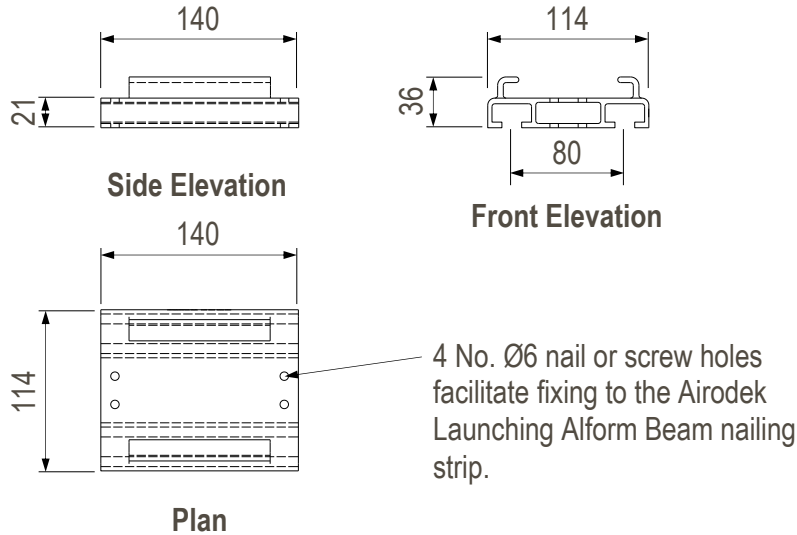
AWL = 12kN



Airodek Launching Prophead (ADX40505) weight 1.09kg

Used to facilitate the sliding of the Alform Launching Beam beyond the slab edge in hi-rise building construction. Connect to end plate of E35 or E40 EuroProp using 2No. diagonally opposed M12 Unifix Bolts & M12 Hexagon Nuts gr.8 BZP (AFX20022 + BNU12001).

AWL = 40kN

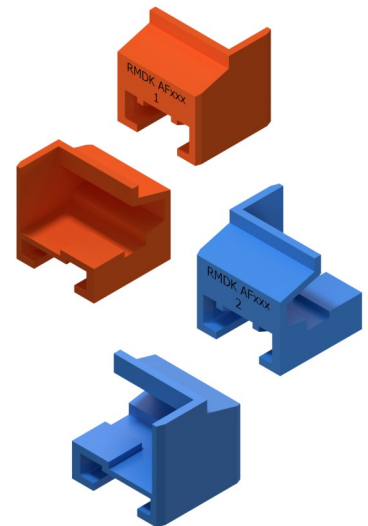
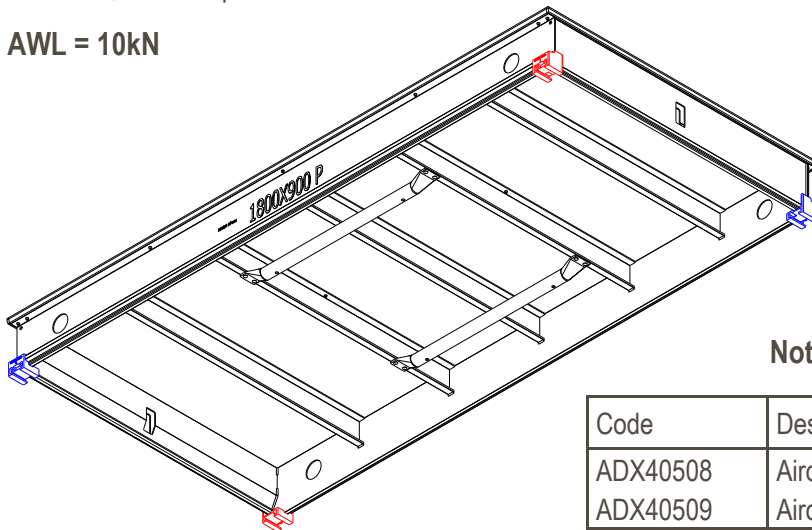


Airodek Panel Slider Shoes

Polypropylene units that snap onto the four corners of Airodek Panels to enable the assembly to be slid along a pair of Airodek Launching Alform Beams whilst captivating them to these beams at the same time. Fit left and right hand shoes in diagonally opposing corners of the Airodek Panel.

Remove the lower lips from the slider shoes attaching to panels outside of perimeter columns, that are placed from above.

AWL = 10kN

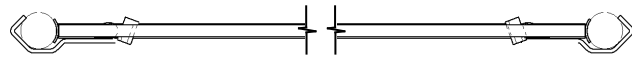


Note: Panel Sliders may be supplied in other colours

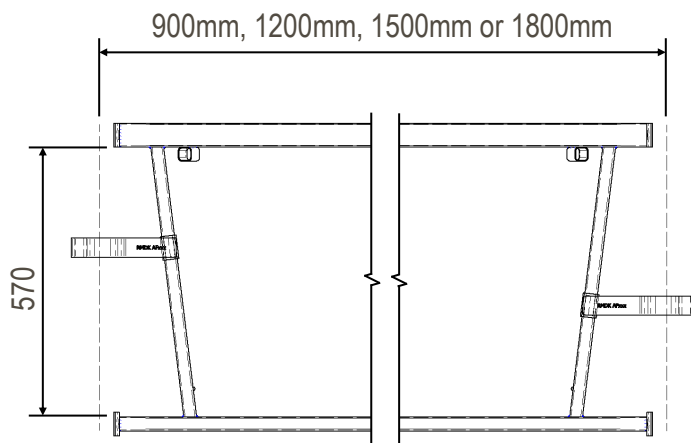
Code	Description	Weight
ADX40508	Airodek Panel Slider Shoe L.H.	0.03 kg
ADX40509	Airodek Panel Slider Shoe R.H.	0.03 kg

HD Spacing Gates and Legs

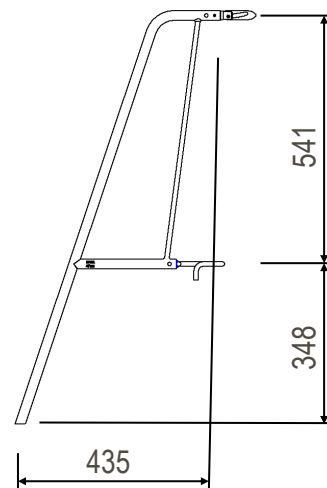
Used to stabilise E35 & E40 EuroProps when creating launching tables.



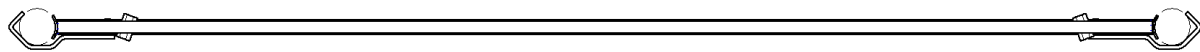
Plan on 900mm, 1200mm, 1500mm & 1800mm Gates



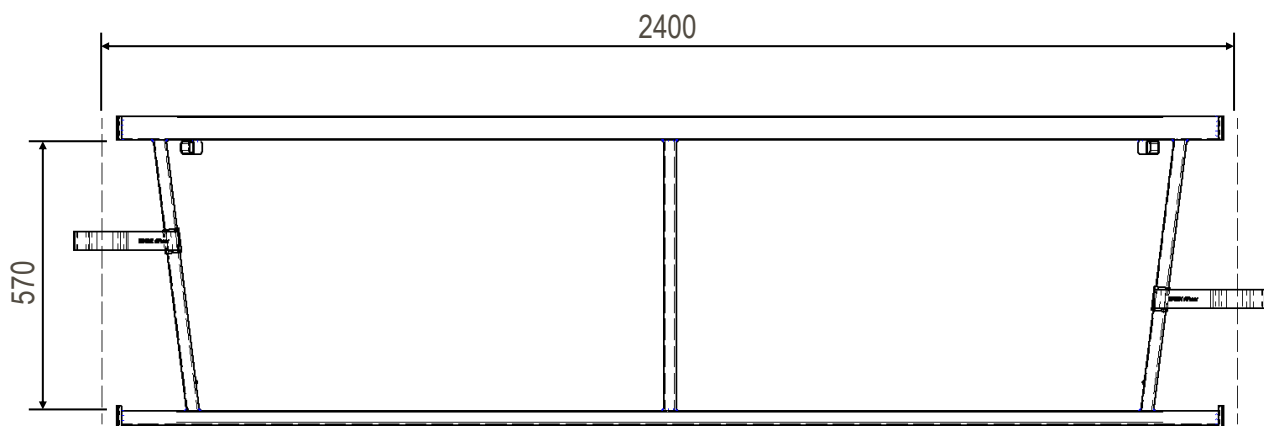
Elevation on 900mm, 1200mm, 1500mm & 1800mm Gates



Elevation on Gate Leg



Plan on 2400mm Gate



Elevation on 2400mm Gate

Code	Description	Weight
PRX10900	HD Prop Spacing Gate 900mm	7.39 kg
PRX11200	HD Prop Spacing Gate 1200mm	8.55 kg
PRX11500	HD Prop Spacing Gate 1500mm	9.71 kg
PRX11800	HD Prop Spacing Gate 1800mm	10.9 kg
PRX12400	HD Prop Spacing Gate 2400mm	14.2 kg
ADX20008	Spacing Gate Leg	2.38 kg

Excalibur 12 x 125mm Wetset Eyebolt (FAU10147) weight 0.18kg

A re-useable anchor used to attach soffit falsework edge restraint / tie downs to the cured slab surface. Can be used with either chain restraints or ratchet lashings depending upon falsework application (chain restraint connection shown below).

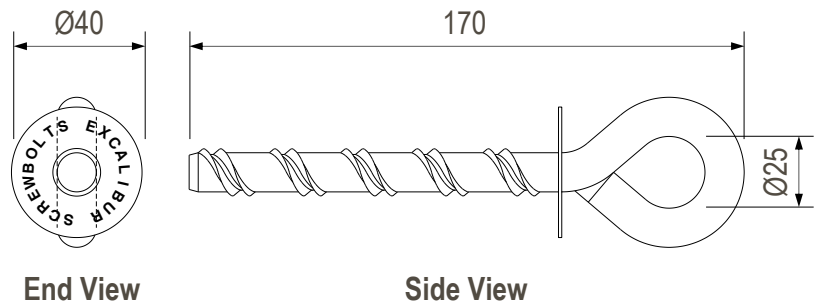
Wetset Installation

Insert the eyebolt as far as possible into the PVC washer supplied and jiggle the assembly into freshly placed concrete as far as the underside of the washer which helps keep it upright and prevent sinking. When used as a slab edge tie-down anchor the plane of the eye must be perpendicular to the slab edge. The low friction WETSET coating enables the anchor to be simply unscrewed from the cured concrete. Undo 1/4 of a turn the day after concreting to break the bond and re-tighten to ease removal. Take care to specify the locations of falsework restraints / tie downs accurately on scheme drawings.



Post Drilled Installation

Drill a 12mm diameter hole 150mm deep and screw the bolt into the hole as far as possible leaving the plane of the eye perpendicular to the slab edge. Bolts may be re-used several times; discard bolts with excessively worn threads. Post drilled installation will remove the Wetset coating. In order to wet set bolts without a Wetset coating, coat bolts with form wax prior to wet set installation.



AWL = 16kN at any angle in 14N/mm² concrete (limited by the strength of the eye weld). Minimum edge distance 150mm.

Chain Restraint Connection Details

Galvanised Chain 5mm x 1350mm
(AGU20014) AWL=4.9kN or
Galvanised Chain 8mmx3050mm
(AGU20015) AWL=12kN

Quicklink 10mm
(AGU20013) AWL=12kN

Excalibur 12 x 125mm
Wetset Eyebolt

10mm Turnbuckle 222-320mm
(AGU20016) AWL=12kN

Important! ensure max extension of 55mm at each end is not exceeded

Note: It is possible to connect two 10mm Quicklinks through the eyebolt if required

Galvanised Chain 8mm x 3050mm (AGU20015) weight 3.29kg/m

Used in tension to tie down the rear of the Alform Launching Beam. **AWL = 12kN**



Quicklink 10mm (AGU20013) weight 0.13kg

Used to connect 8mm chain bracing to the Airodek Launching Tie Down Bracket (ADX40506). **AWL = 12kN**



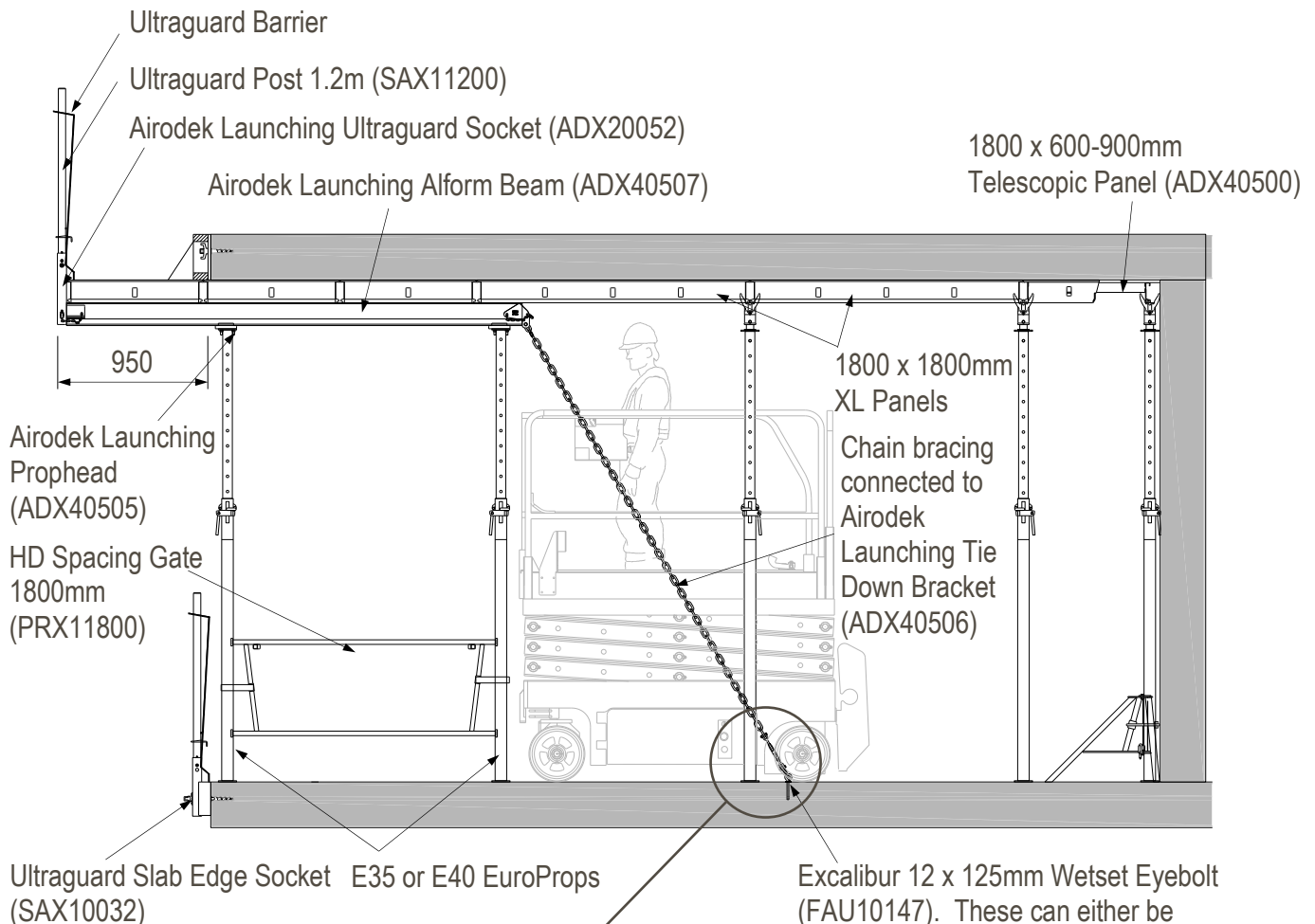
10mm Turnbuckle 222-320mm (AGU20016) weight 0.05kg

Used to take up the slack in 8mm chain bracing. **Important!** ensure max extension of 55mm at each end is not exceeded. **AWL = 12kN**

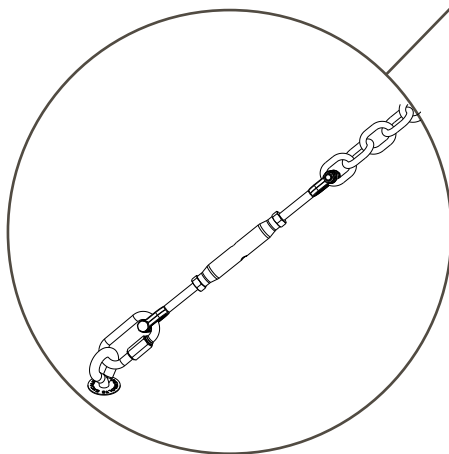


Airodek Launching System - Typical Details

The example below shows the Airodek Launching System which provides an intrinsically safe method for placing Airodek Panels beyond the slab edge. This system works best when utilising the 1800mm square XL Panels which enable a MEWP to navigate the building perimeter and provide access for panel launching. If used with 1800x900mm panel, podium steps will be required.

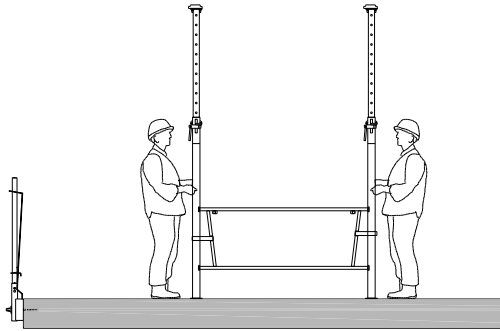


Typical Section

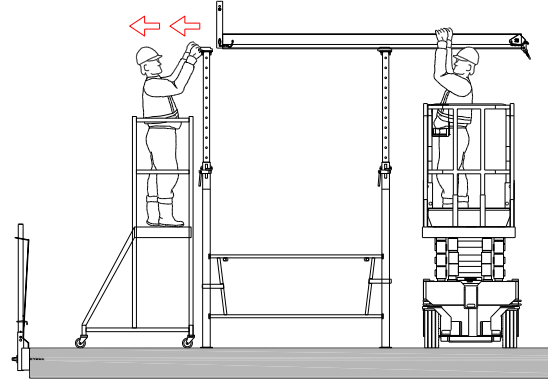


Airodek Launching System - Erection Sequence

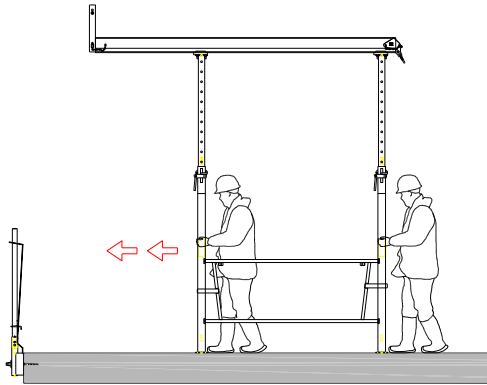
The example below shows how a Airodek can be erected safely beyond the slab edge using the Airodek Launching System.



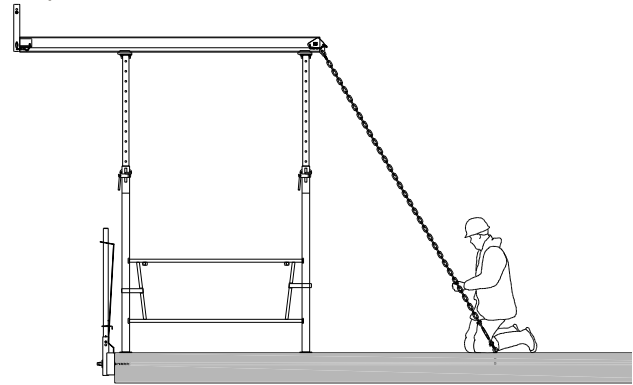
1, Fix Launching Heads to Props & assemble into a tower using HD Spacing Gates. Set out and position the tower accurately on the slab.



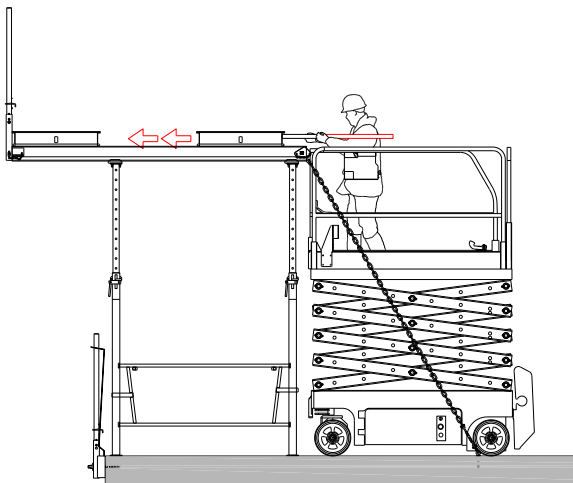
2, Fix Handrail Ultraguard Socket & Tie Down Bracket to Launching Alform Beam. Feed the assembly fully through the Launching Heads. When in position nail or screw through Launching Heads into Alform Beam plastic insert.



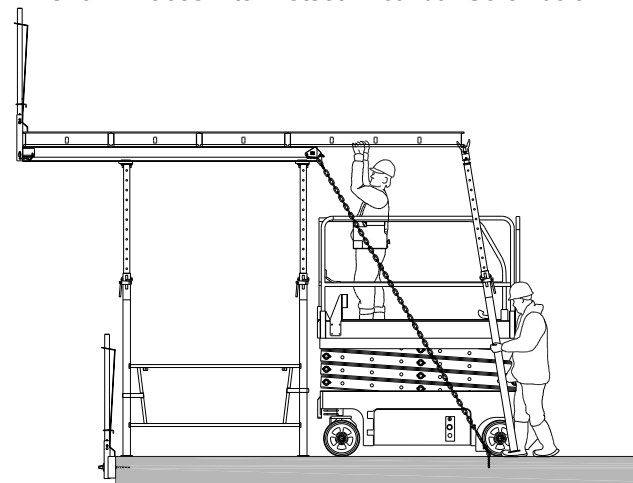
3, Move assembled tower into required position



4, Tie down rear of Launching Alform Beam using Chain Braces into Wetset Excalibur Screwbolt.



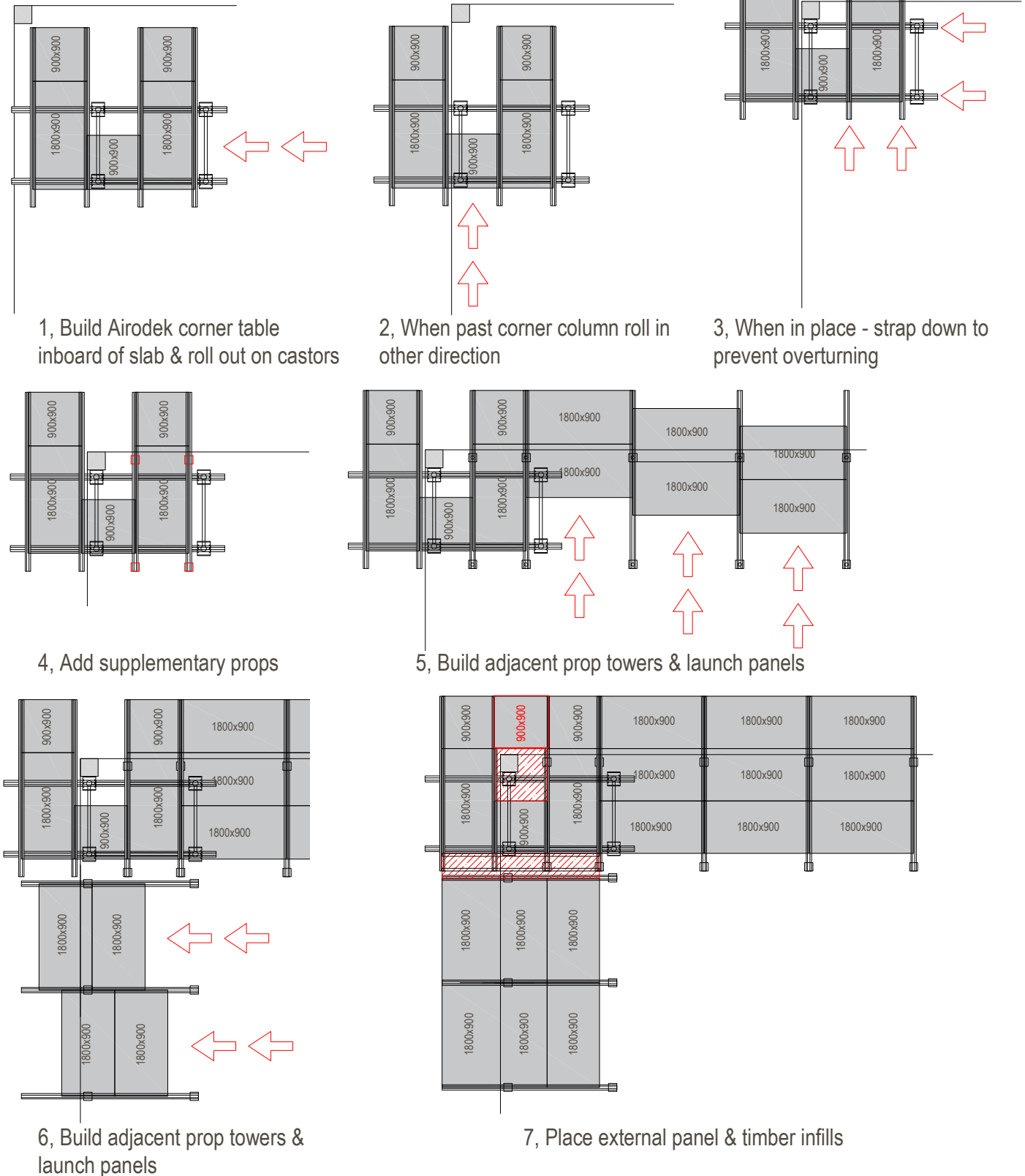
5, Snap Slider Shoes onto four corners of an Airodek Panel & feed onto Launching Alform Beam. Slide Panels onto the Alform Launching Beam until they contact the Ultraguard Socket. Repeat with two further panels.



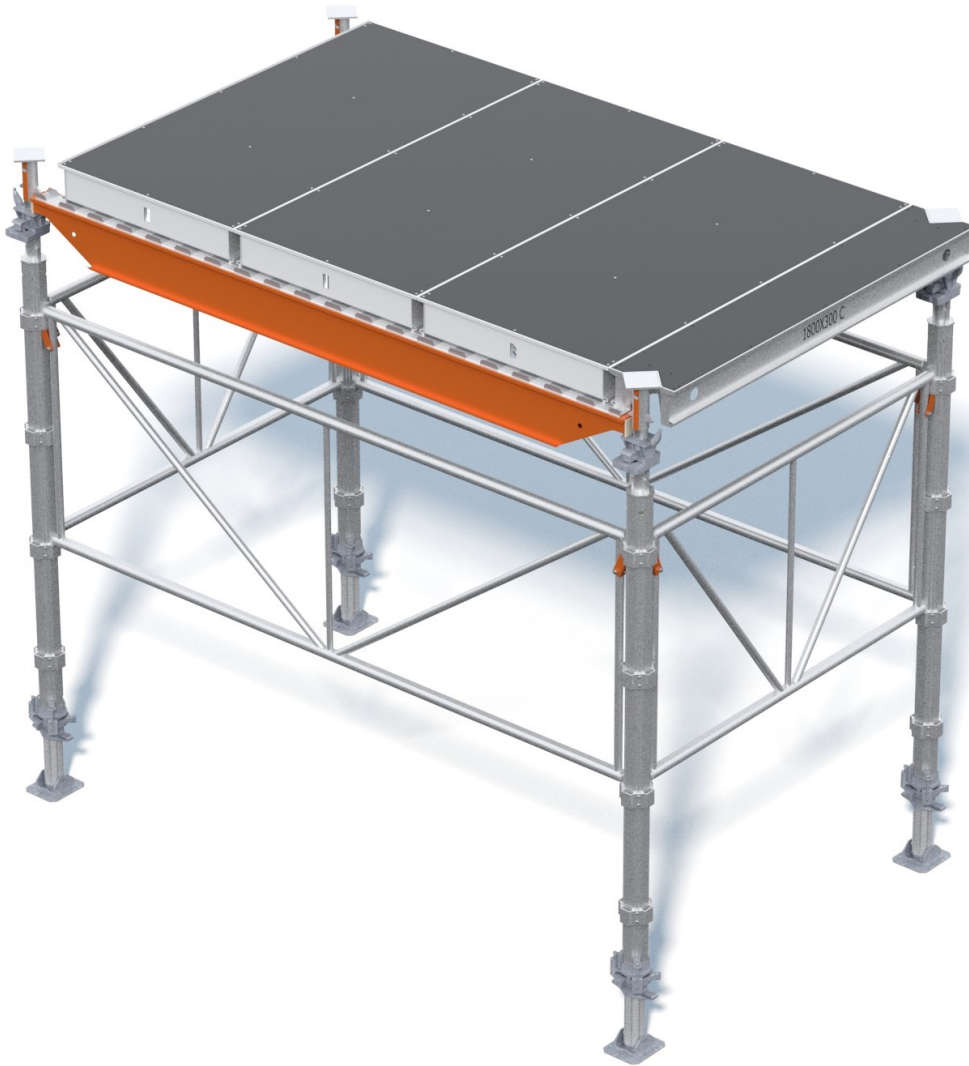
6, Snap Slider Shoes onto two corners of Panel & feed onto Launching Alform Beam. Support rear corner of Panel with EuroProps.

Airodek Launching System - Erection Sequence at External Corners

The example below shows how a Airodek can be erected safely beyond the slab edge at external corners using the Airodek Launching System.



Airodek Decking

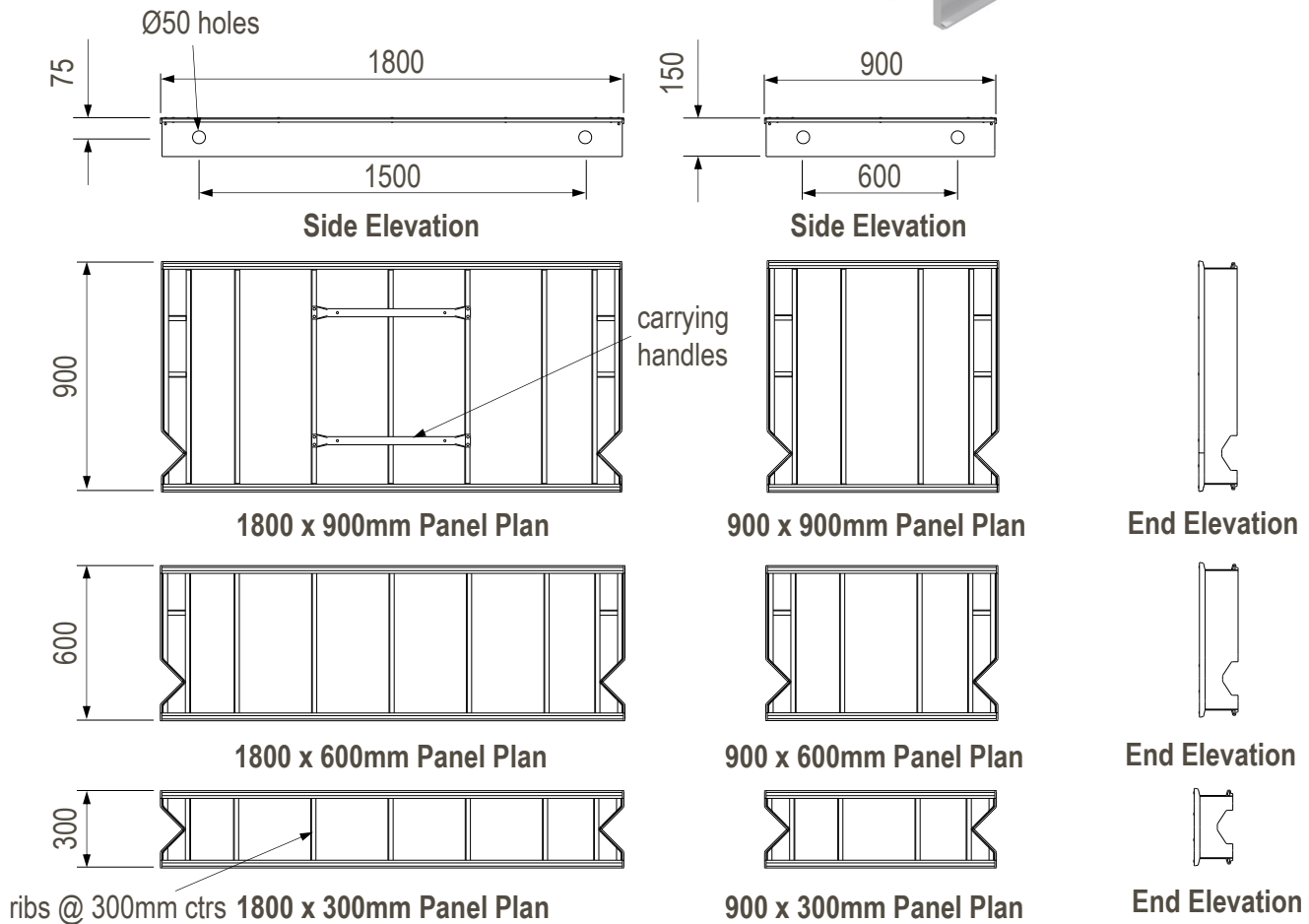
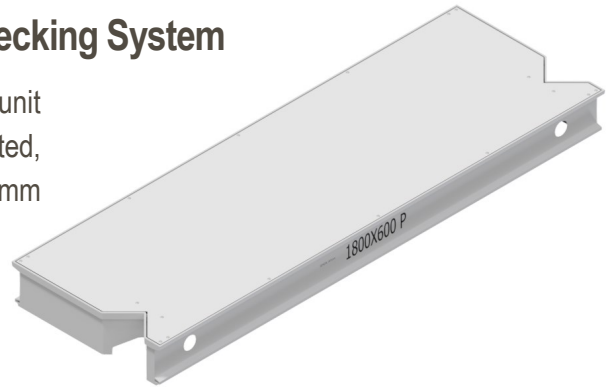


Airodek Decking soffit formwork can be supported using Airodek Drop Heads enabling undisturbed propping of the immature concrete slab whilst the soffit formwork is struck for re-use. Airodek Crowns can also be used for support, but independent re-propping of the immature slab may be required.

Airodek Drophead Panels - For use with Airodek Decking System

Panels have dedicated triangular voids that accept the Drophead unit and are manufactured from a welded, lightweight, powder coated, aluminium frame with options of 9mm thick phenolic plywood or 10mm thick Alkus face material.

See Table Below for Allowable Slab Thicknesses

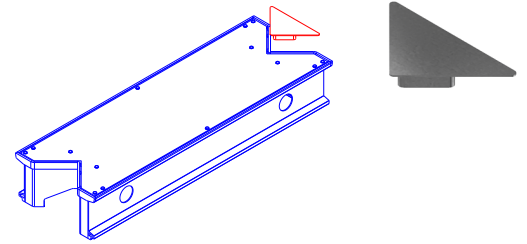


Code		Description	Weight		Maximum Slab Thickness
Plywood	Composite		Plywood	Composite	
ADX30009	ADX40009	Airodek Drophead Panel 1800 x 900mm	23.9 kg	29.7 kg	500mm
ADX30006	ADX40005	Airodek Drophead Panel 1800 x 600mm	18.3 kg	22.0 kg	700mm
ADX30003	ADX40001	Airodek Drophead Panel 1800 x 300mm	12.4 kg	14.1 kg	700mm
ADX30010	ADX40010	Airodek Drophead Panel 900 x 900mm	13.3 kg	16.2 kg	500mm
ADX30007	ADX40006	Airodek Drophead Panel 900 x 600mm	10.5 kg	12.2 kg	700mm
ADX30004	ADX40002	Airodek Drophead Panel 900 x 300mm	6.70 kg	7.50 kg	700mm

Note: Further checks should always be made on the allowable working load of the falsework system used for support.

Airodek Drophead Infill Plate (ADX30005) weight 0.21kg

A triangular plate that engages with the Drophead void at the end of the panel to prevent grout loss during pouring. Use where a Drophead Panel is without a Drophead present.

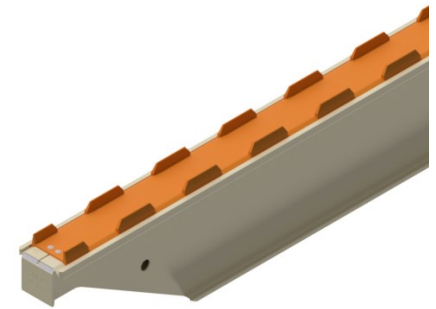


Airodek Decking Beams

Decking Beams enable panels to be used on other falsework systems such as Alshor Plus and Rapidshor, thus requiring fewer legs per square metre than a prop & panel solution. Integral plastic or aluminium upstands ensure secure location and prevent unintentional dislodging of panels.

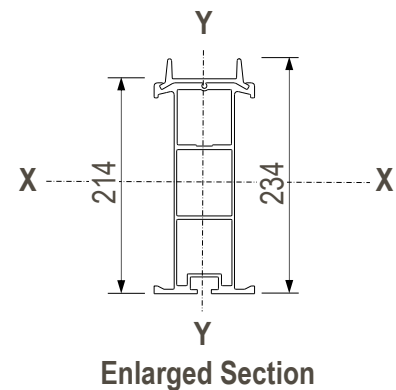
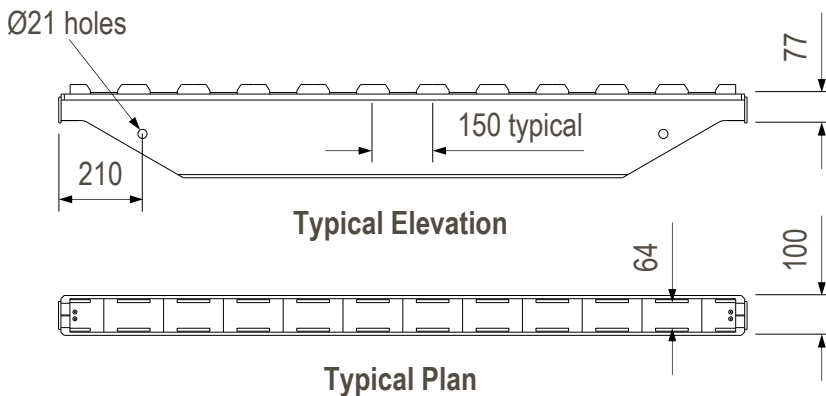
The choice to use Decking Beams in an Airodek falsework solution will be based upon one of the following three constraints:

- Large expanses of soffit (larger grid sizes & fewer legs).
- The propping height (floor to soffit height exceeds 3.5m).
- The requirement for a Drophead system (earlier striking of Airodek panels and Deck Beams).



Section Properties

Area: Gross	28.2cm ²
I_{xx}	1758 cm ⁴
EI_{xx}	1213 kNm ²
M max_{xx}	21.5 kNm
Max Reaction (Intermediate)	60 kN
Max Reaction (End)	30 kN
Self Weight	7.8 kg/m



Code	Description	Weight	Maximum Slab Thickness
ADX31800	Airodek Decking Beam 1800mm	13.0 kg	700mm*
ADX32400	Airodek Decking Beam 2400mm	18.1kg	500mm
ADX33000	Airodek Decking Beam 3000mm	23.3 kg	300mm

Note: Further checks should always be made on the allowable working load of the falsework system used for support.

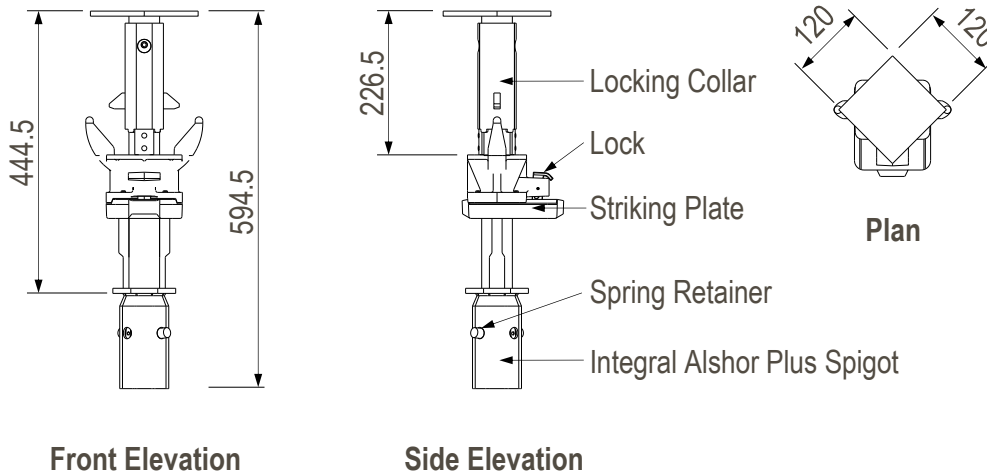
* Be sure to choose appropriate Airodek Panel sizes when using 1800mm Deck Beams for 700mm thick slabs.

Airodek to Alshor Drophead (ADX10016) weight 8.61kg

Use to connect the decking system to Alshor Plus legs. The Drophead's quick strike system lowers the Airodek Panels and Deck Beams by 75mm for early removal whilst the freshly poured concrete slab remains propped. An integral collar locks the Deck Beams securely onto the Drophead's twin prongs to prevent accidental dislodging / wind uplift. A vertical orange band provides a clear indication of when the collar is in the locked position.

AWL = 60kN during concrete placement

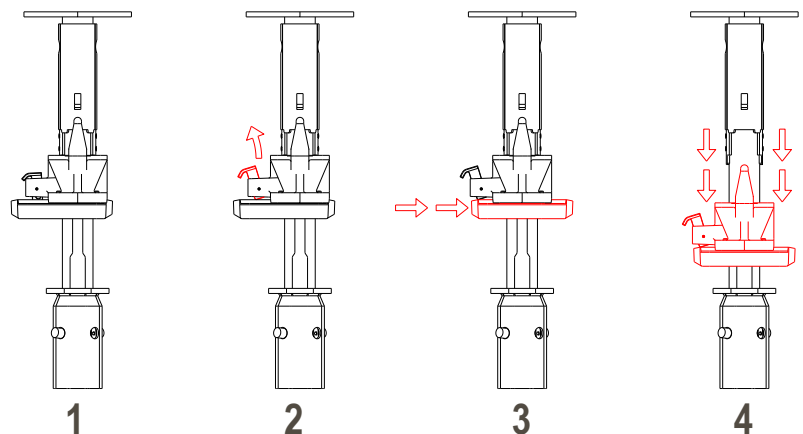
AWL = 65kN during back-propping phase



Note: Further checks should always be made on the allowable working load of the Alshor Plus falsework system used to support these Dropheads. Refer to Alshor Plus datasheets - Graphs 801 to 804.

Striking the Drophead

- 1, Drophead in 'un-struck' position. (Striking plate can be set either to the left or the right of the lock).
- 2, Lift & rotate lock until the bottom is free of the striking plate. Rest lock in 'unlocked' position.
- 3, Hit the striking plate firmly with a hammer so that it travels horizontally by 25mm.
- 4, The striking plate and twin prongs drop by 75mm.



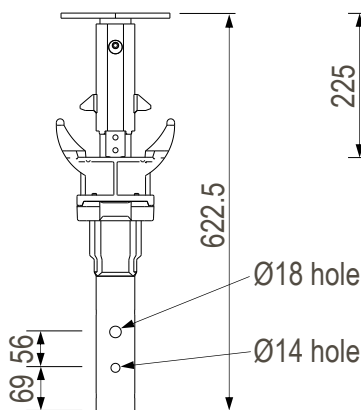
Note: When Dropheads are placed close to walls, ensure that the striking plate is pre-set remote from the wall to facilitate striking.

Airodek Drophead (ADX30001) weight 7.91kg

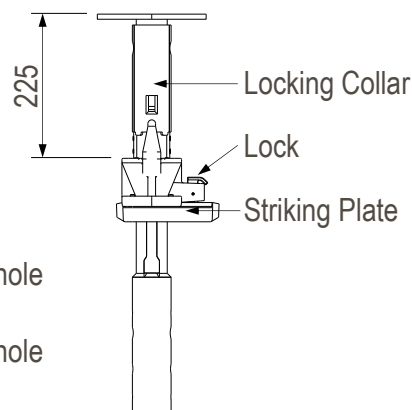
Use to connect the decking system to a number of different propping systems, see bottom of page. The Drophead's quick strike system lowers the Airodek Panels and Deck Beams by 75mm for early removal whilst the freshly poured concrete slab remains propped. An integral collar locks the Deck Beams securely onto the Drophead's twin prongs to prevent accidental dislodging / wind uplift. A vertical orange band provides a clear indication of when the collar is in the locked position.

AWL = 60kN during concrete placement

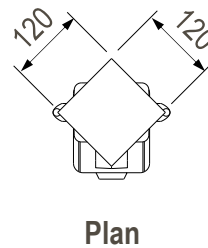
AWL = 65kN during back-propping phase



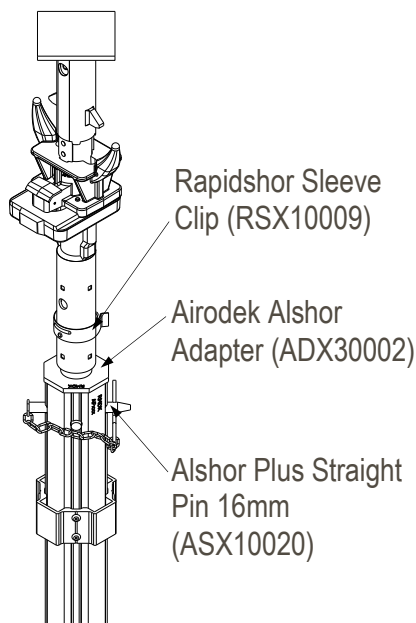
Front Elevation



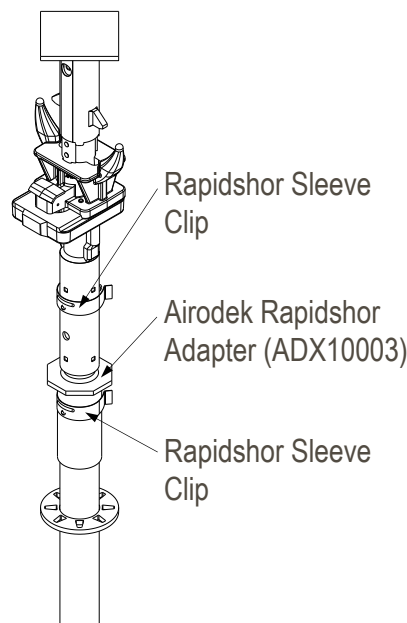
Side Elevation



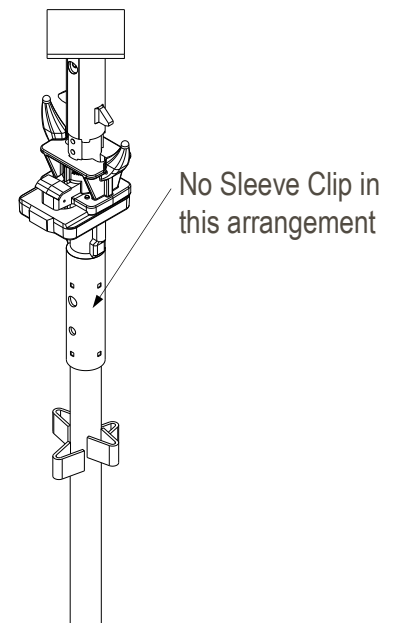
Plan



Alshor Plus Leg



Rapidshor Leg

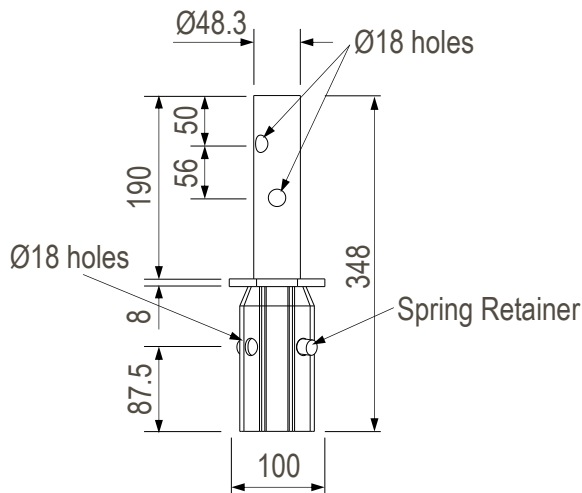


Rapidstage / Kwikstage Leg

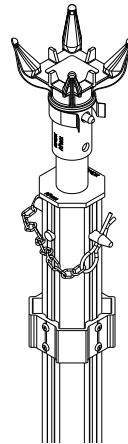
Airodek Alshor Adapter (ADX30002) weight 4.12kg

Use as a transition unit to connect a Steel Crown or Airodek Drophead onto an Alshor Plus

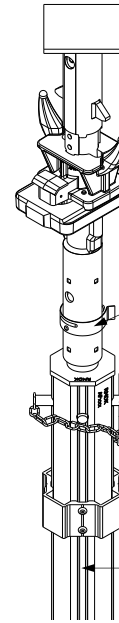
Leg. AWL = 65kN



Elevation



Steel Crown



Drophead



Rapidshor Sleeve
Clip (RSX10009)

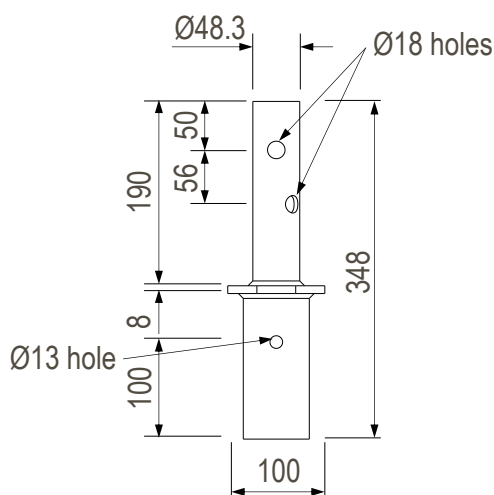
Alshor Plus Straight Pin
16mm (ASX10020)

Alshor Plus Leg

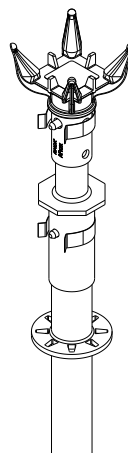
Airodek Rapidshor Adapter (ADX10003) weight 2.23kg

Use as a transition unit to connect a Steel Crown or Airodek Drophead onto a Rapidshor

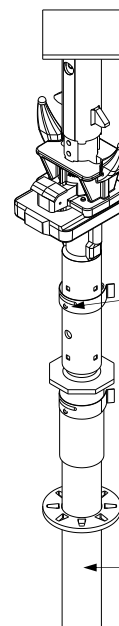
Leg. AWL = 65kN



Elevation



Steel Crown



Drophead

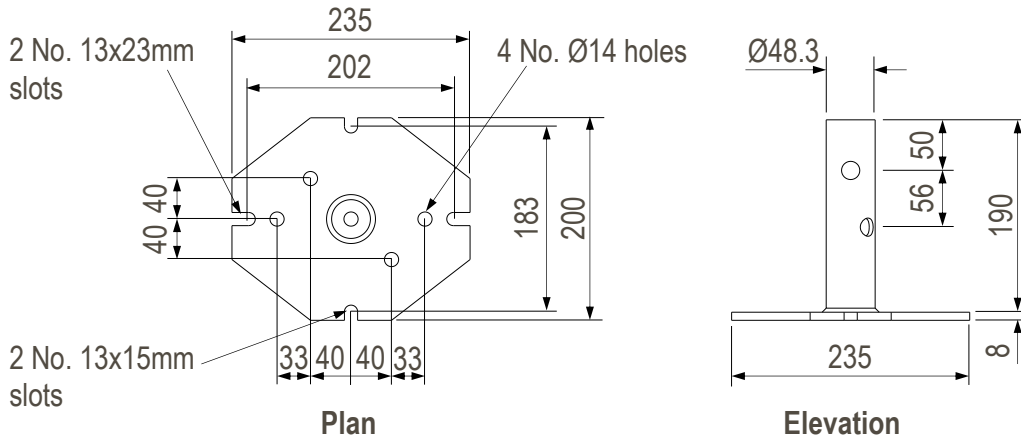


Rapidshor Sleeve
Clip (RSX10009)

Rapidshor Open Ended
Standard

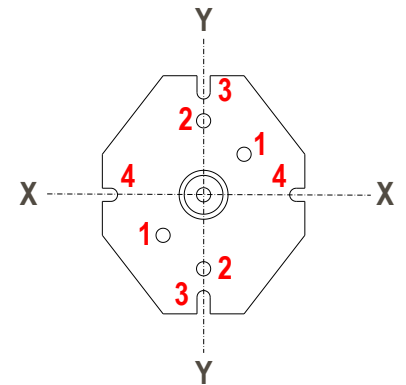
Universal Adapter (ADX10011) weight 3.24kg

Allows the use of the Airodek system on competitor's falsework systems (i.e. Titan, Gass and Multiprop). **AWL = 65kN**



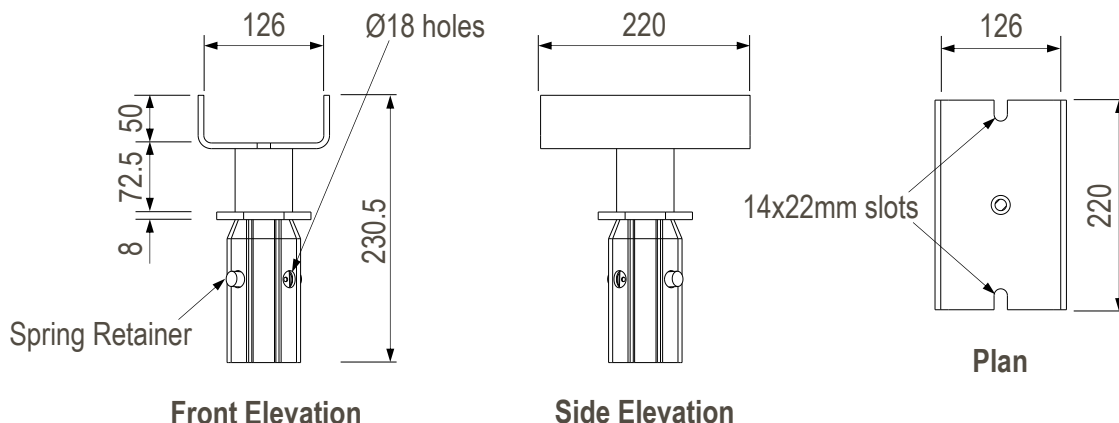
Hole Configuration Chart

	TITAN		GASS		MULTIPROP		Primary Beam	
Hole Set	Jack	Leg	Jack	Leg	Outer	Inner	x-x	y-y
1	✓				✓	✓	✓	✓
2		✓					✓	
3		✓						✓
4			✓	✓			✓	✓



Alshor - Airodek U-Head (ASX10066) weight 4.24kg

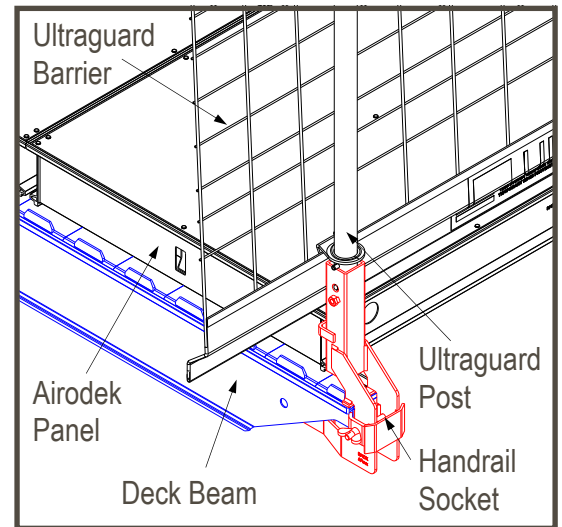
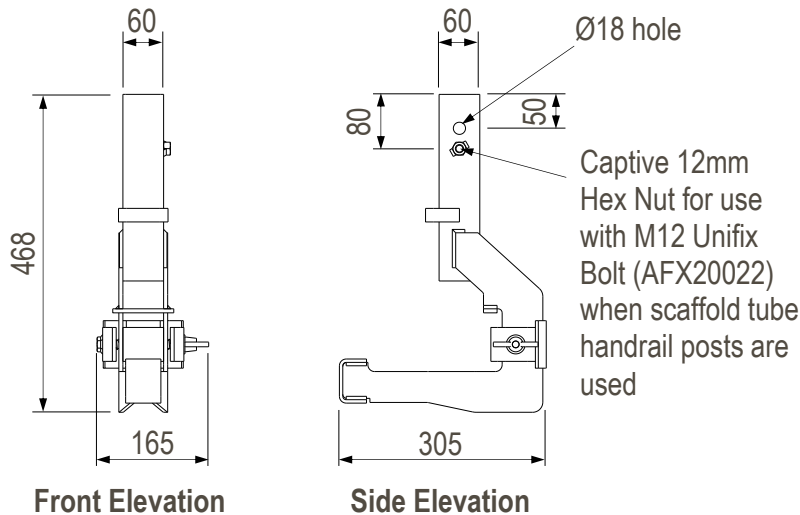
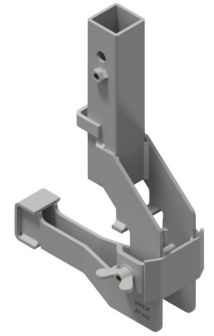
Use to support Airodek Deck Beams in perimeter applications where the opposing end of the beam is supported by either an Airodek Crown or an Airodek/Alshor Plus Drop-head. Fix to the Airodek Deck Beam with 2 No. M12 Unifix Bolts & M12 Wing Nuts (AFX20022 + BNU12001). **AWL in compression = 65kN, AWL in tension with straight pin = 20kN**



Ultraguard Deck Beam Guardrail Socket (ADX10014) weight 6.80kg

Use to connect Ultraguard Posts or scaffold tube posts to the end of cantilevered Deck Beams and to safely transmit slab edge loads from the sides of the panel back into these beams. Two spring-loaded clamps positively secure the socket onto the end of the beam. Hand tighten wing nut and tighten an additional $\frac{1}{4}$ turn with a hammer.

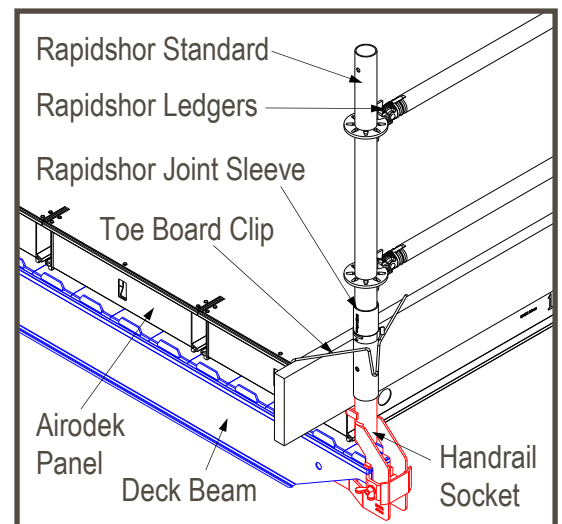
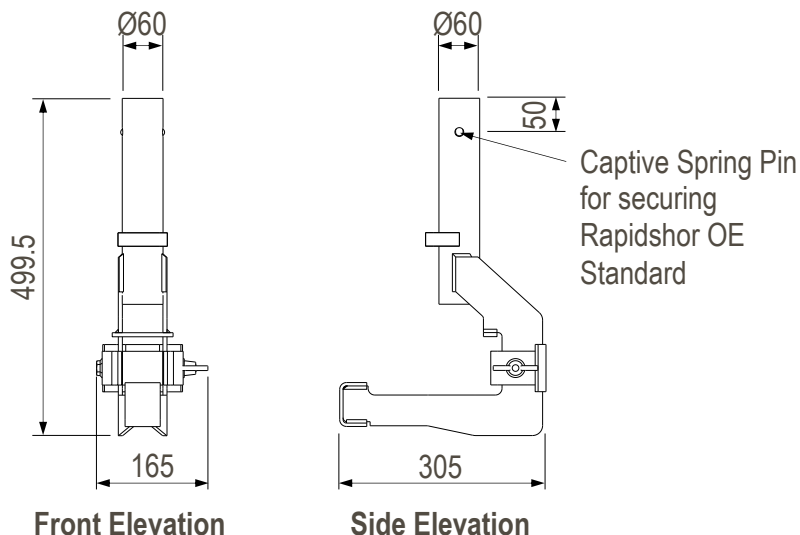
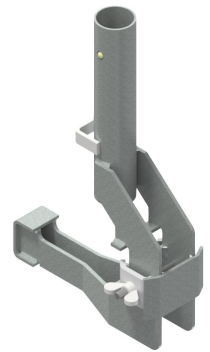
Refer to [Sheet 29](#) for Ultraguard component list.



Airodek Deck Beam Guardrail Socket (ADX20016) weight 6.14kg

An alternative guardrail adapter used to connect Rapidshor OE Standards to the end of cantilevered Deck Beams and to safely transmit slab edge loads from the sides of the panel back into these beams. Two spring-loaded clamps positively secure the socket onto the end of the beam. Hand tighten wing nut and tighten an additional $\frac{1}{4}$ turn with a hammer.

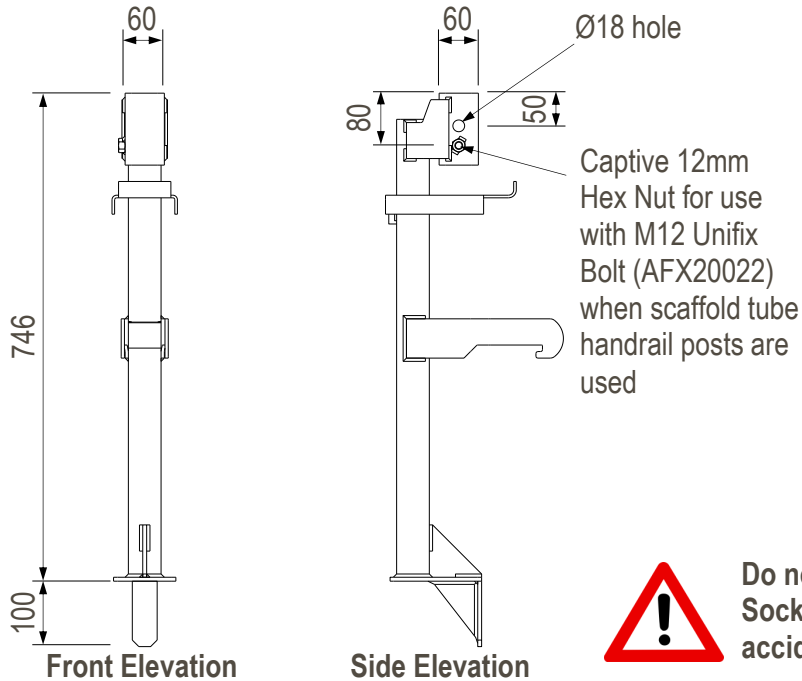
Refer to [Sheet 30](#) for Rapidshor component list.



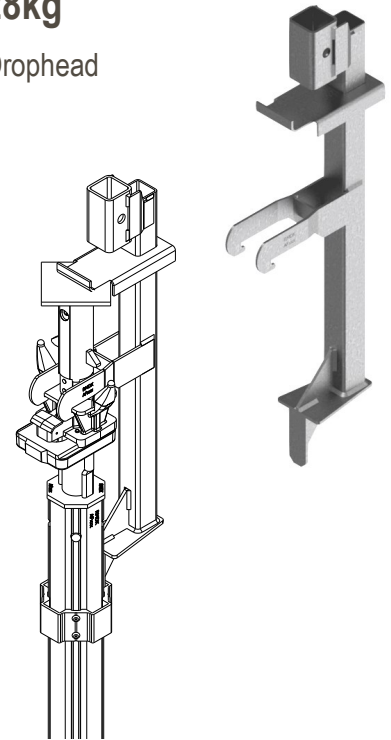
Alshor Drophead Ultraguard Socket (ADX10019) weight 7.28kg

A guardrail adapter used to connect Ultraguard Posts to an Airodek to Alshor Drophead (ADX10016). This item does not fit the Airodek Drophead (ADX30001).

Refer to [Sheet 29](#) for Ultraguard component list.



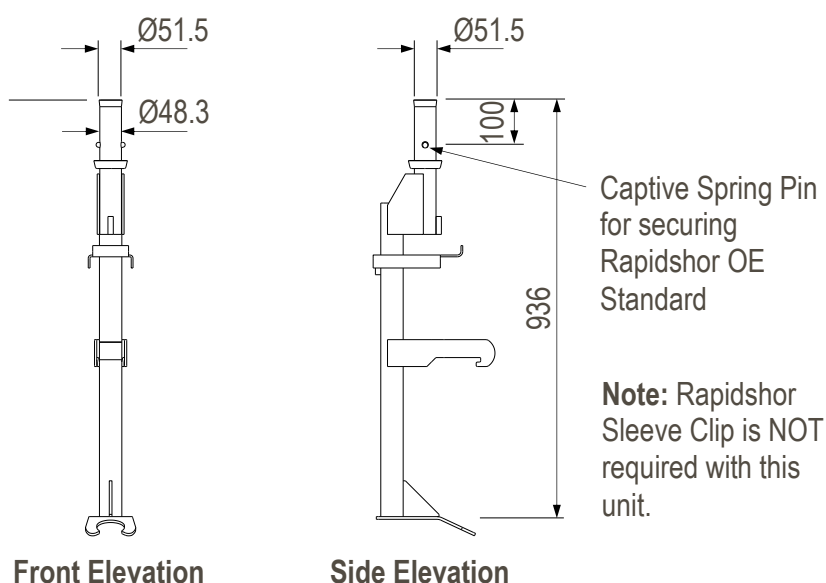
Do not release Drophead units when Guardrail Sockets are attached as this may result in accidental detachment of the guardrail assembly!



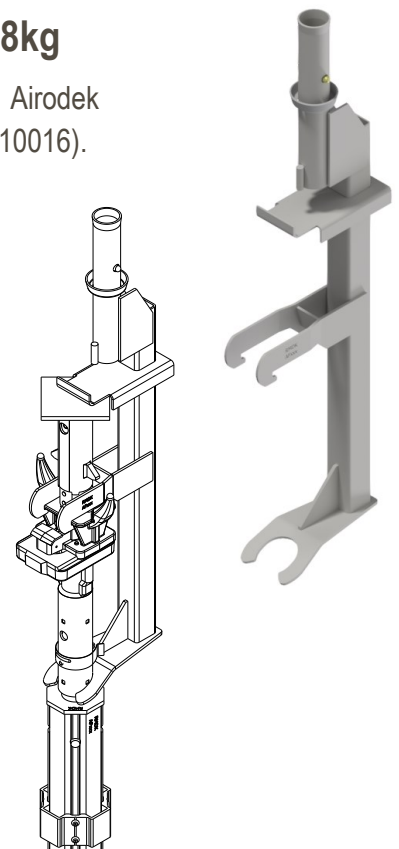
Airodek Drophead Guardrail Socket (ADX10004) weight 7.88kg

An alternative guardrail adapter used to connect Rapidshor OE Standards to an Airodek Drophead (ADX30001). This item does not fit the Airodek to Alshor Drophead (ADX10016).

Refer to [Sheet 30](#) for Rapidshor component list.



Note: Rapidshor Sleeve Clip is NOT required with this unit.

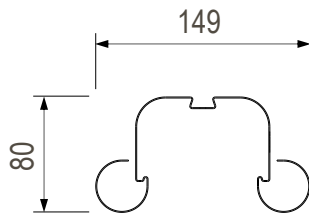


Airodek Panel Beam Clip (ADX20030) weight 0.04kg

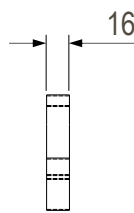
Use to connect the ends of Airodek Panels to Deck Beams to provide wind uplift restraint. Clips have finger loops for ease of erection & dismantling and work with either one or two panels (the clip has been designed with weak point in the middle to enable it to be snapped in half for use with one panel).



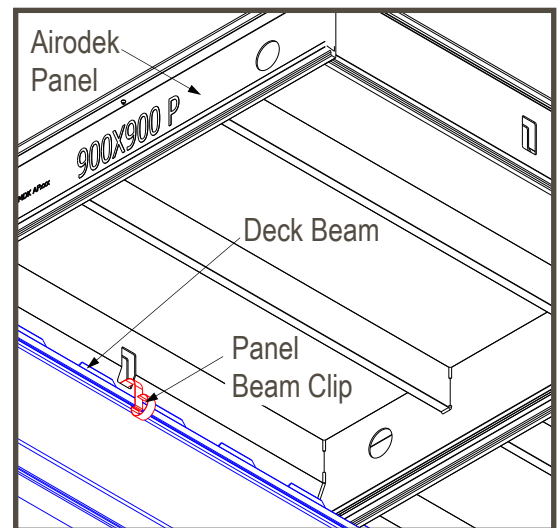
AWL = 0.5kN



Section



Side Elevation

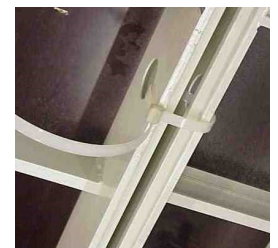


Airodek Panel Strap (ADX10008) weight 0.02kg

A 12.7mm wide Nylon strap used to secure panels to the support structure during conditions of high wind. Maximum usable length 730mm.

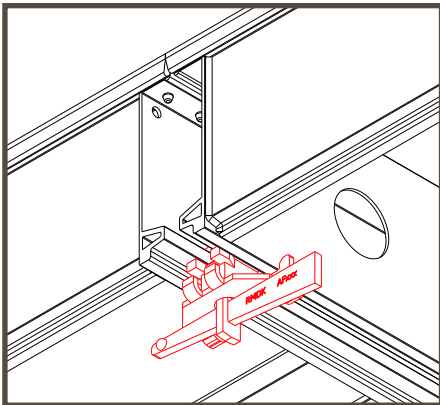
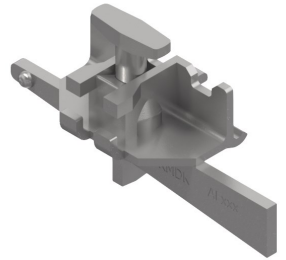
AWL = 0.57kN

Left hand picture shows connection of panel to crown. Right hand picture shows connection of panel to panel.

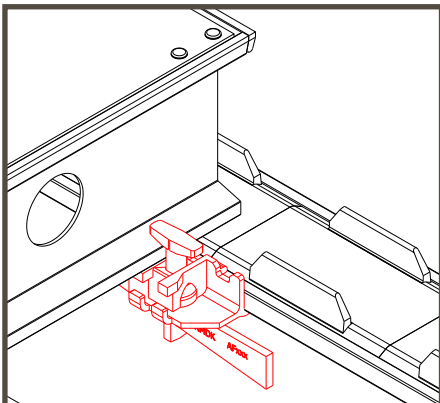


Airodek Wind Restraint Clamp (ADX20038) weight 0.42kg

Use to secure the side member of an Airodek Panel to either an Airodek Steel Crown or a Deck Beam. A captive wedge ensures quick assembly and dis-assembly on site.

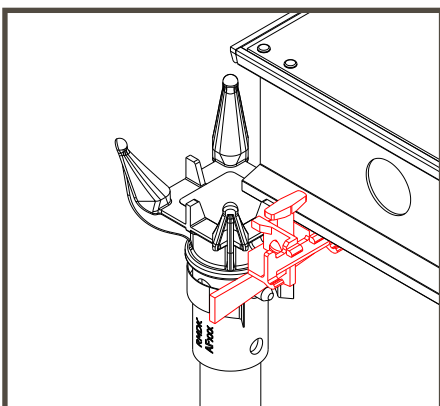


Fitted after the panels have been positioned on the Steel Crowns or Deck Beams, the Wind Restraint Clamp locks down on the edge sections of two panels to connect them together.



One Wind Restraint Clamp can be used to restrain either a single panel or a pair of panels to a Deck Beam.

Where four panels meet on a Deck Beam, two Clamps are required.

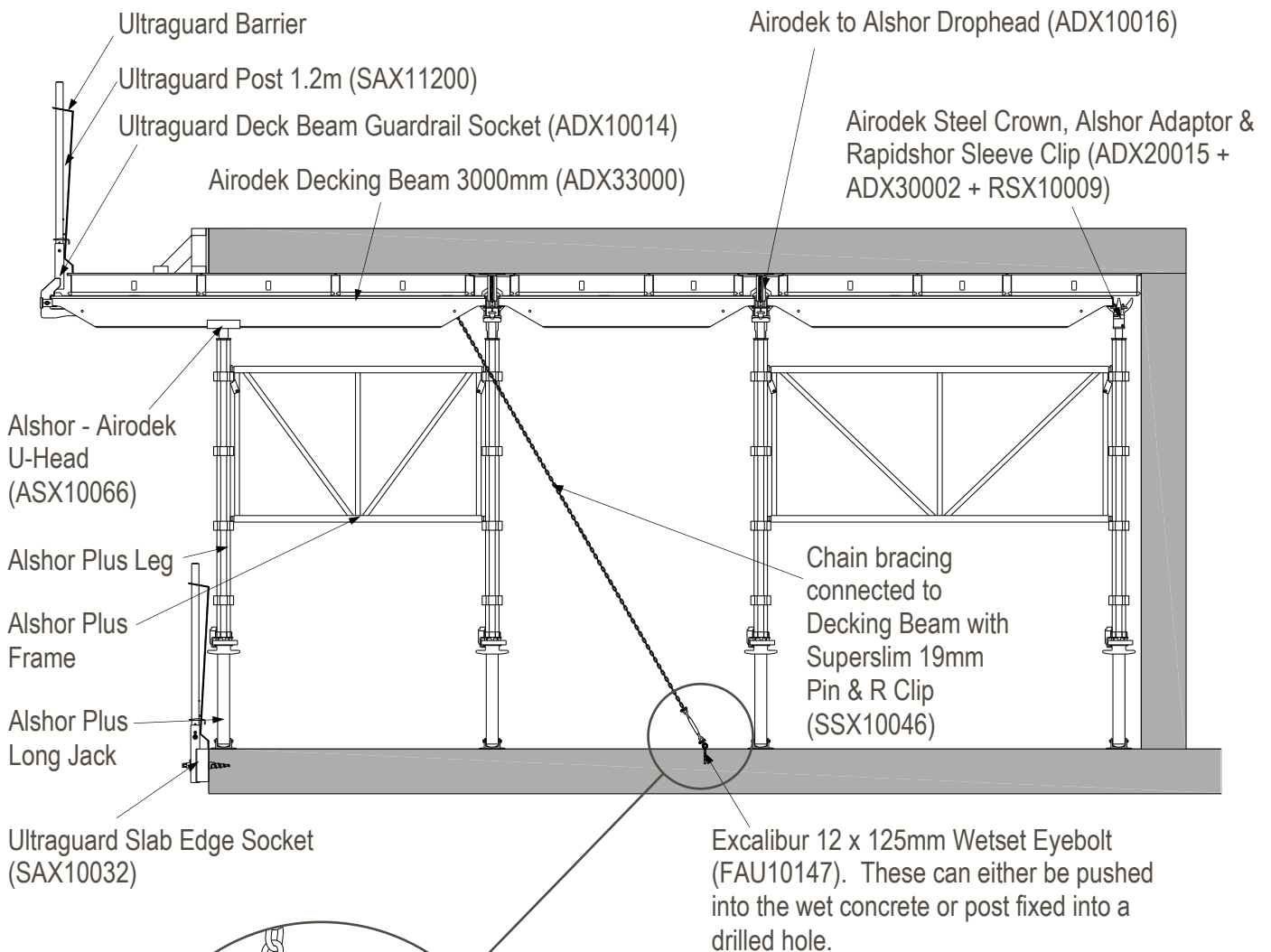


One Wind Restraint Clamp can be used to restrain either a single panel or a pair of panels to a Steel Crown.

Where four panels meet on a Steel Crown, two Clamps are required.

Airodek Decking System - Typical & Lateral Restraint Details

The example below shows the Airodek Decking System which is generally used either for large expanses of soffit, where the floor to soffit height exceeds 3.5m or where there is a requirement for early striking of Airodek panels and Deck Beams.

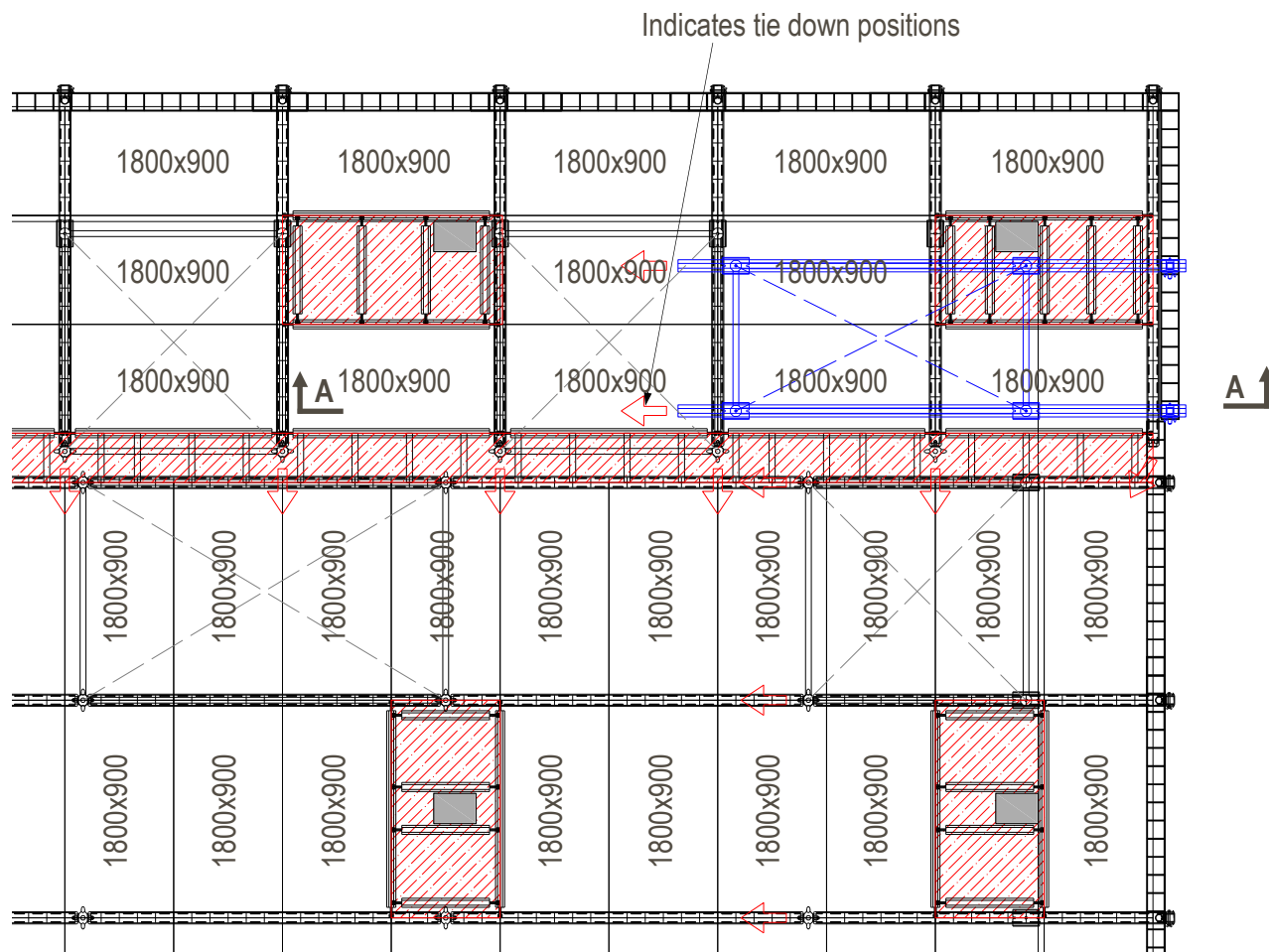


Typical Section

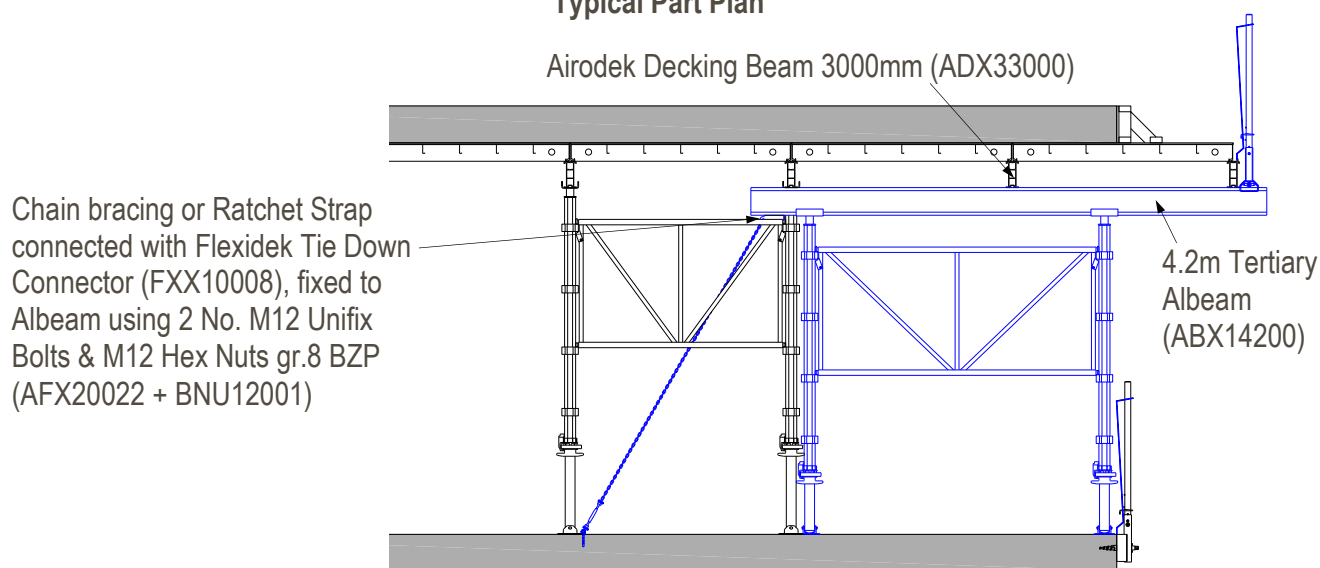
Note: Two Chain Braces or Ratchet Lashings can share a single Wetset Eyebolt

Airodek Decking System - Typical Details

The example below shows how a typical external corner with column can be accommodated using the Airodek Decking System.



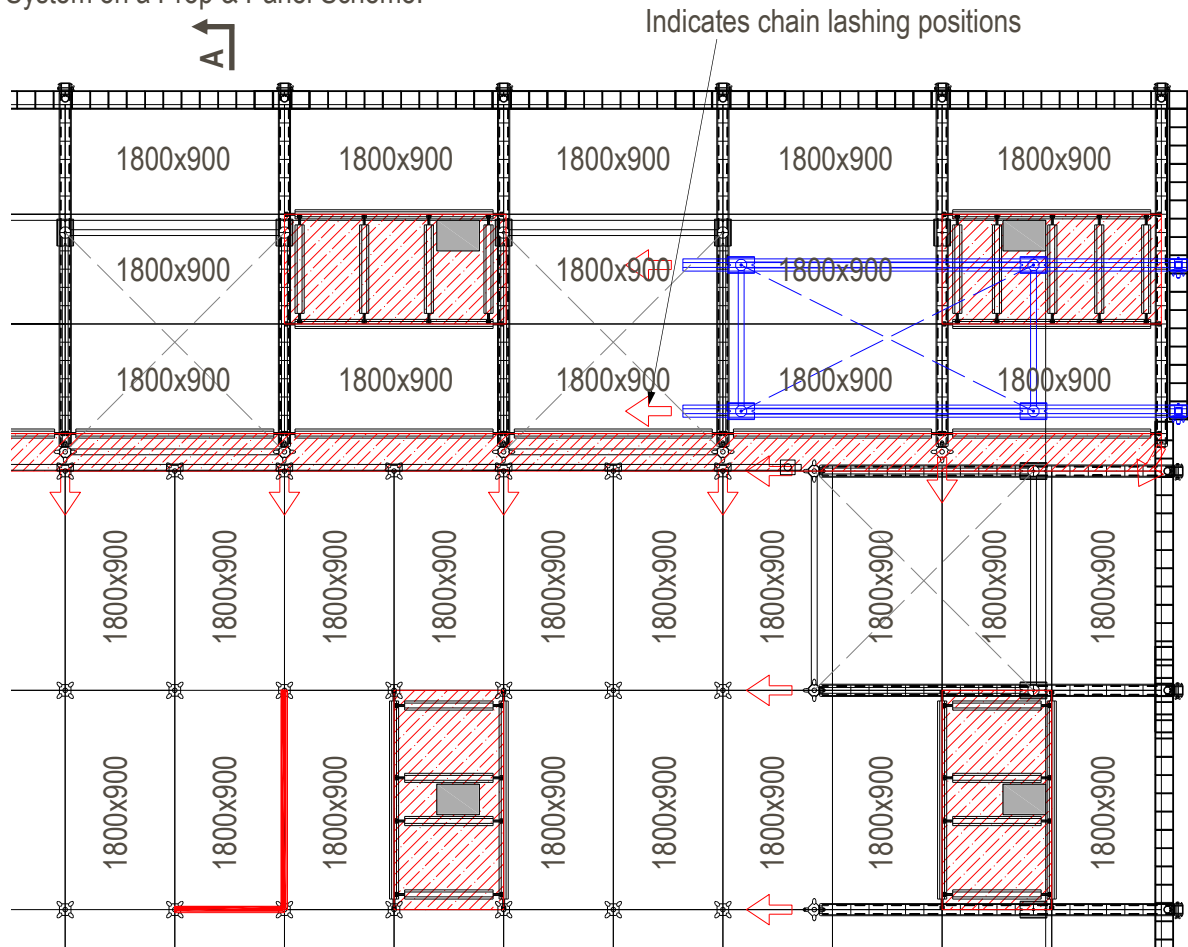
Typical Part Plan



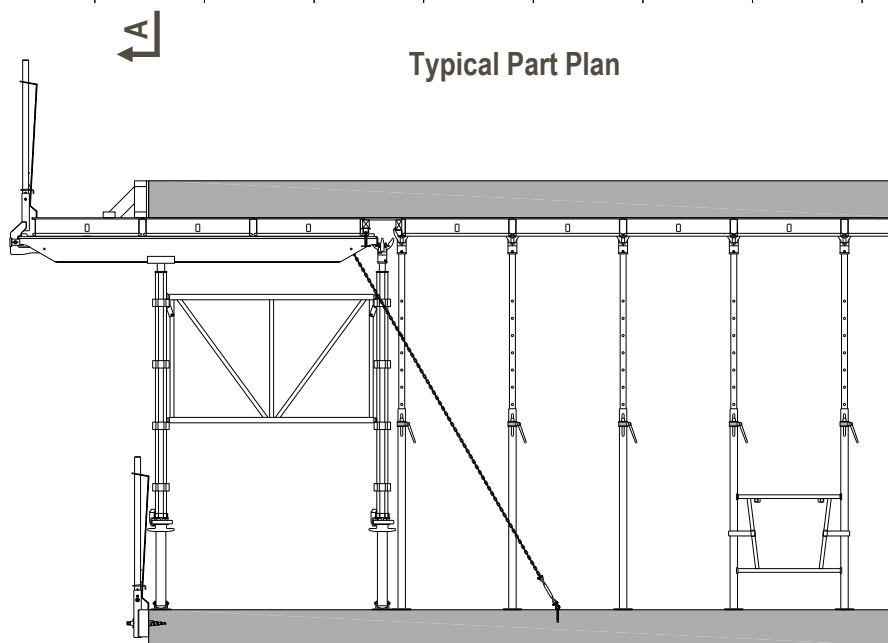
Section A-A (corners of building only)

Airodek Decking and Prop & Panel Combination - Typical Details

The example below shows how a typical building perimeter external corner can be accommodated using the Airodek Decking System on a Prop & Panel Scheme.

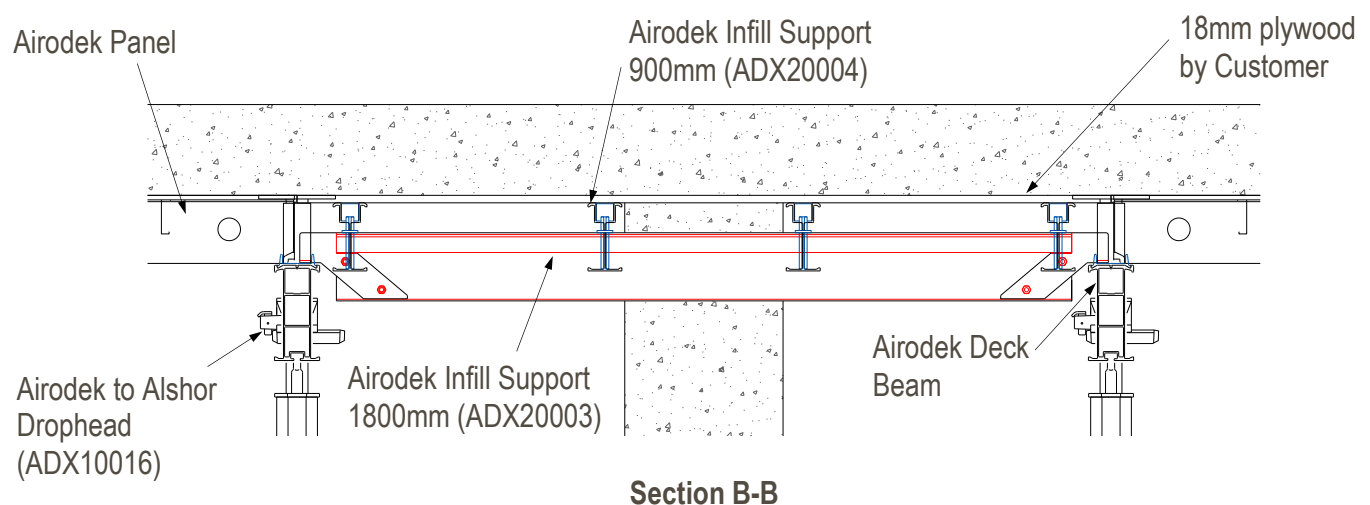
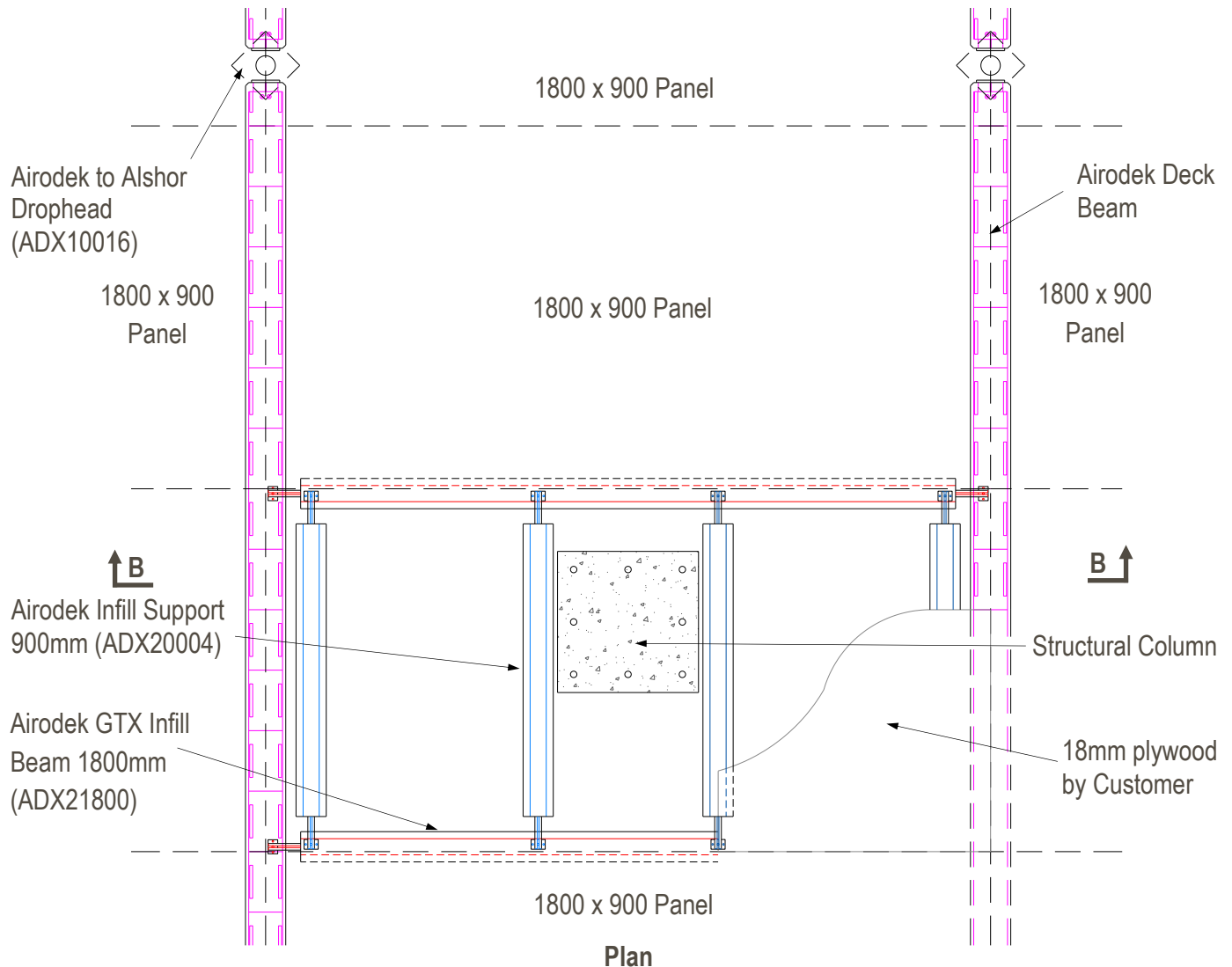


Typical Part Plan



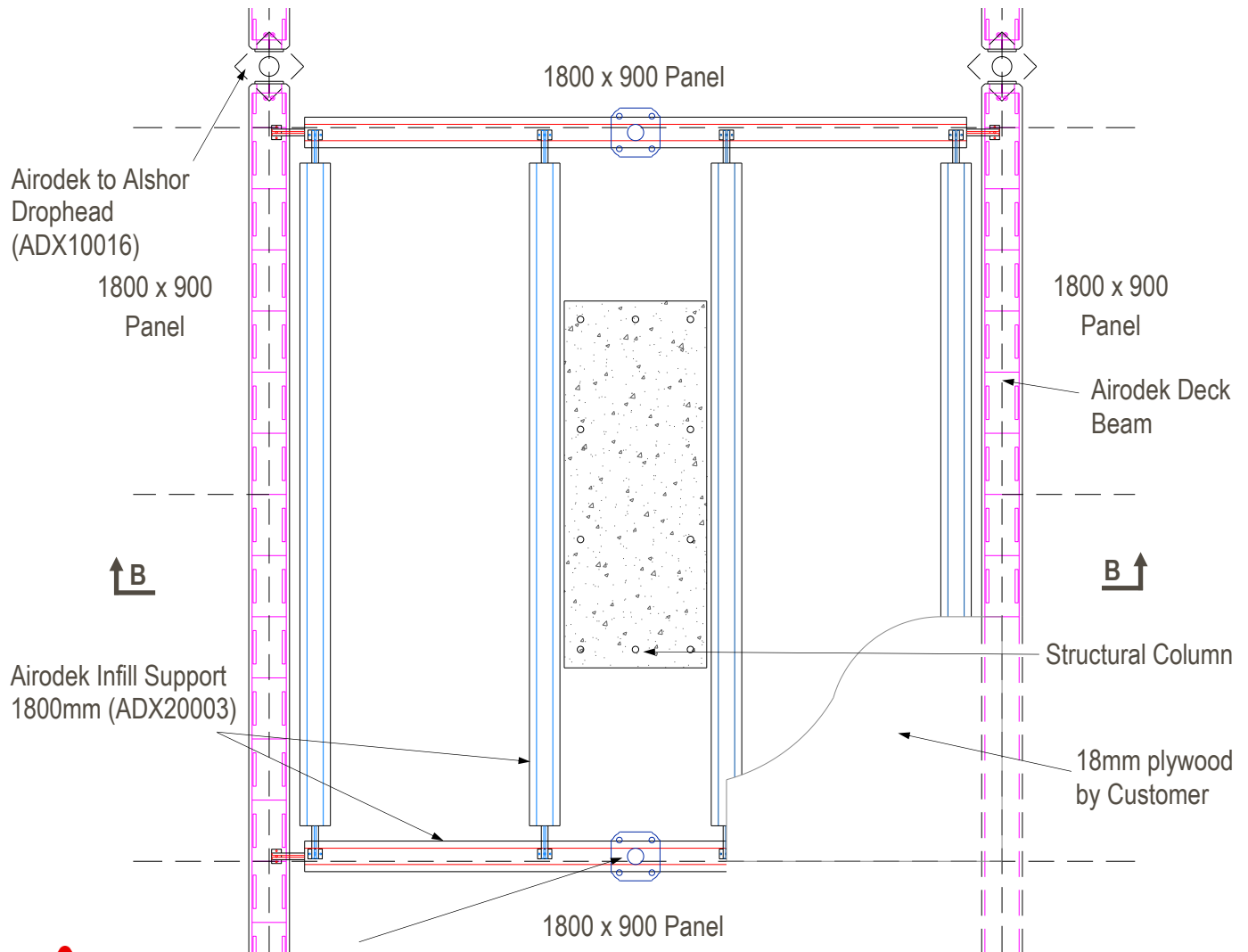
Section A-A

1800 x 900 Column Infill with Aluminium Infill Beams.



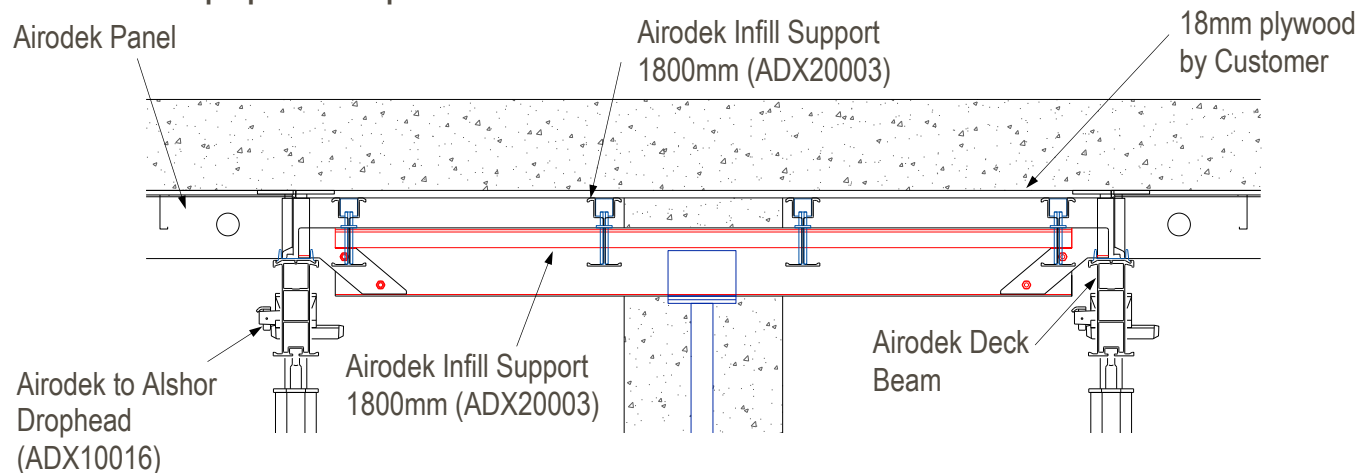
Note: Typical component configurations are shown, all components require design check to ensure adequacy.

1800 x 1800 Column Infill with Aluminium Infill Beams.



Plan

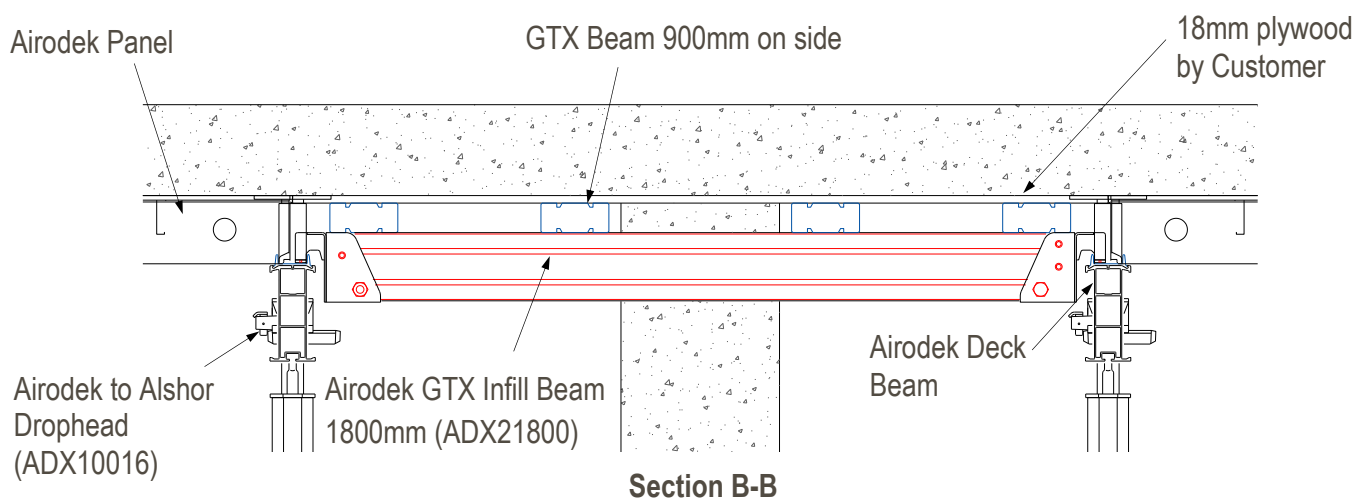
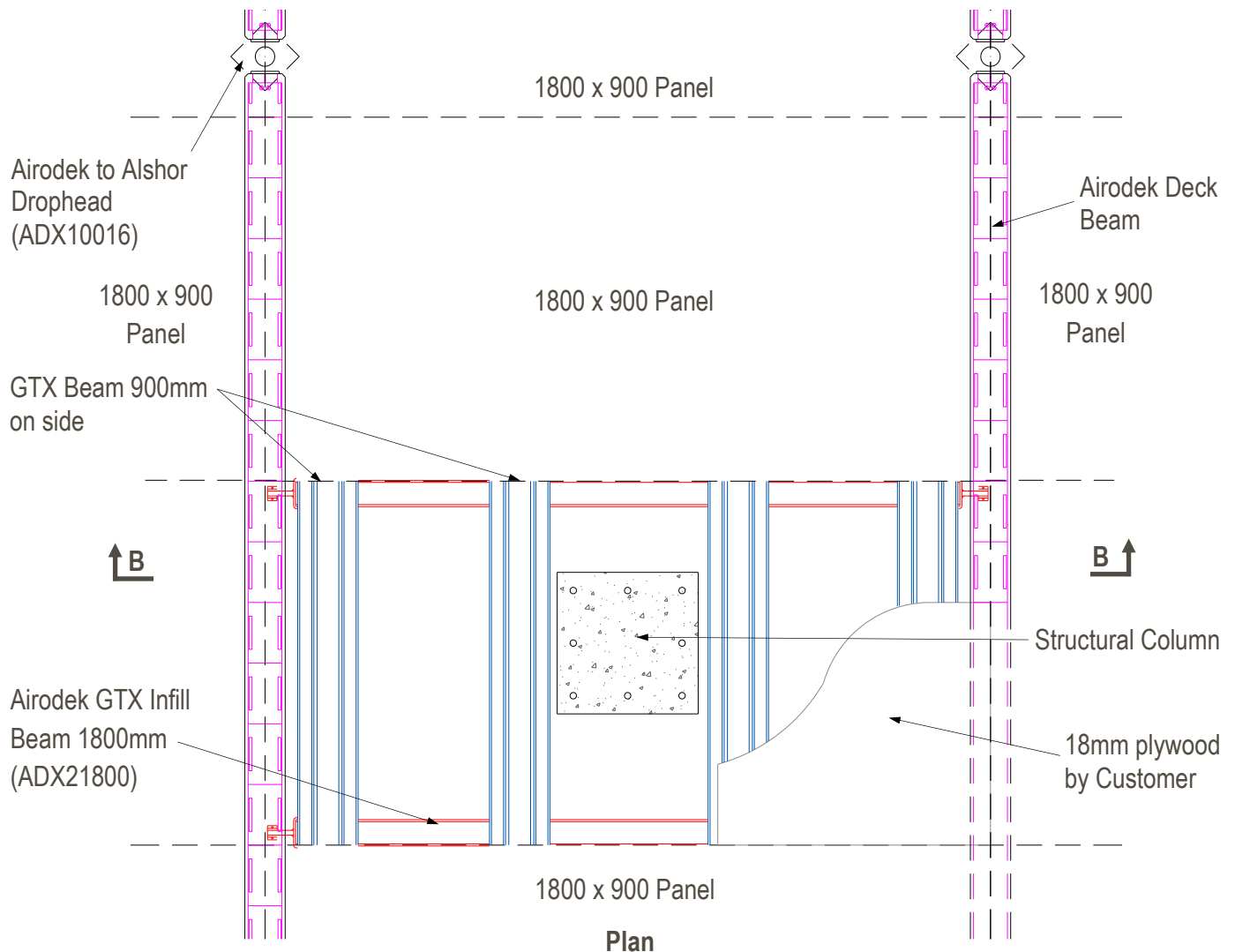
Important! Check infill beam for strength and deflection. Add props to mid span if overloaded



Section B-B

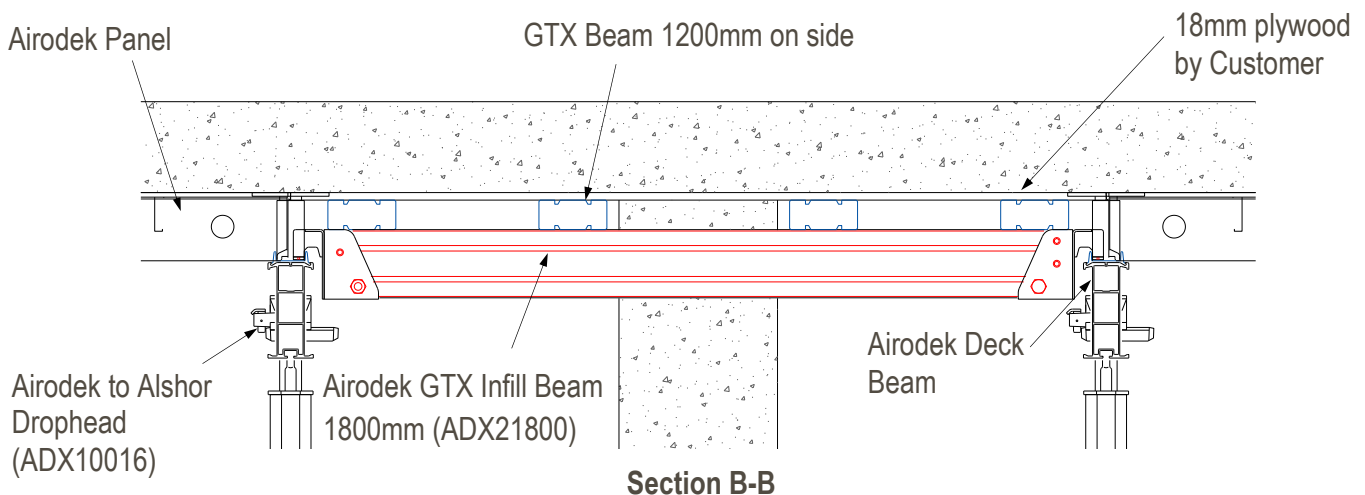
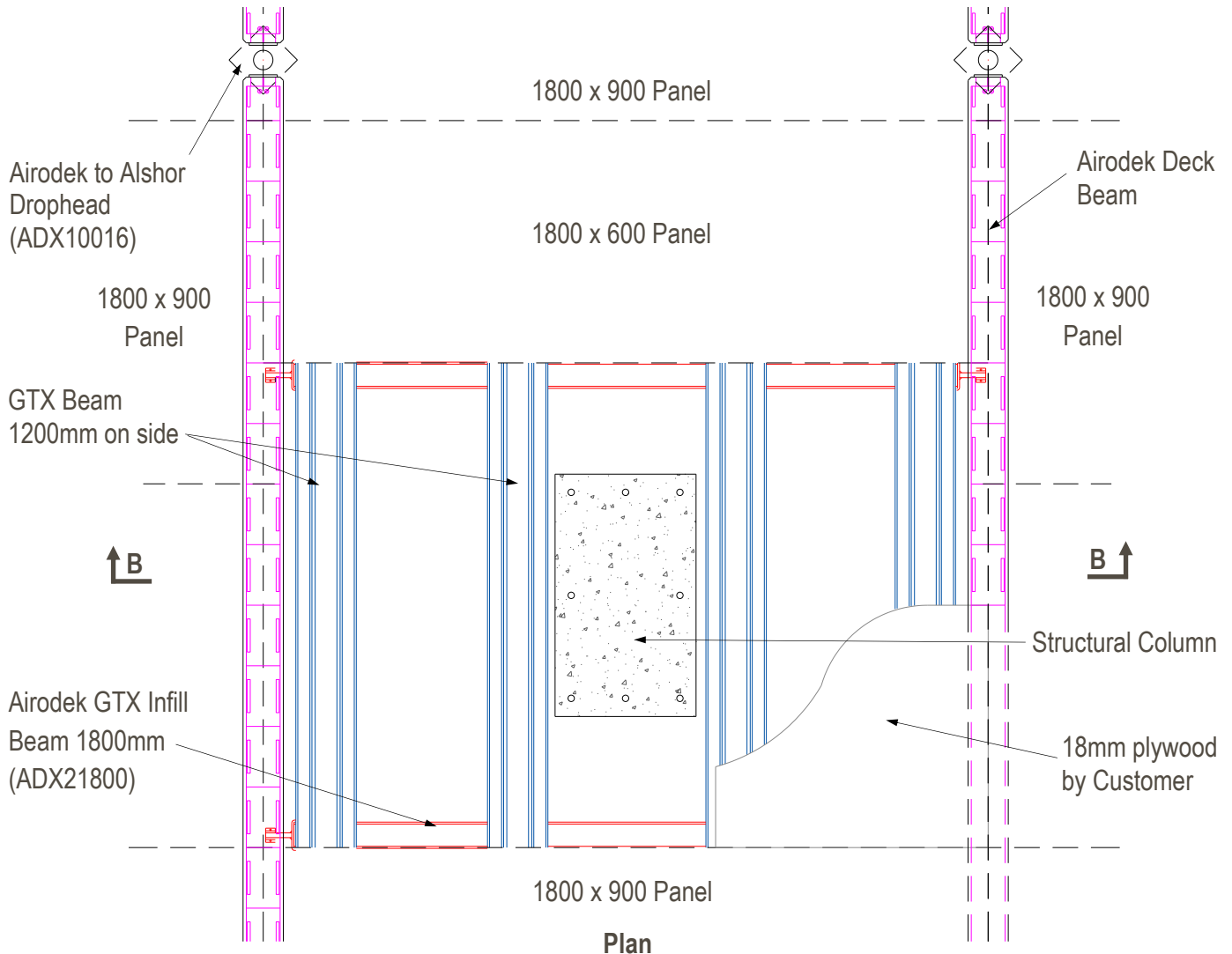
Note: Typical component configurations are shown, all components require design check to ensure adequacy.

1800 x 900 Column Infill with GTX Infill Beams - Drophead & Deck Beams



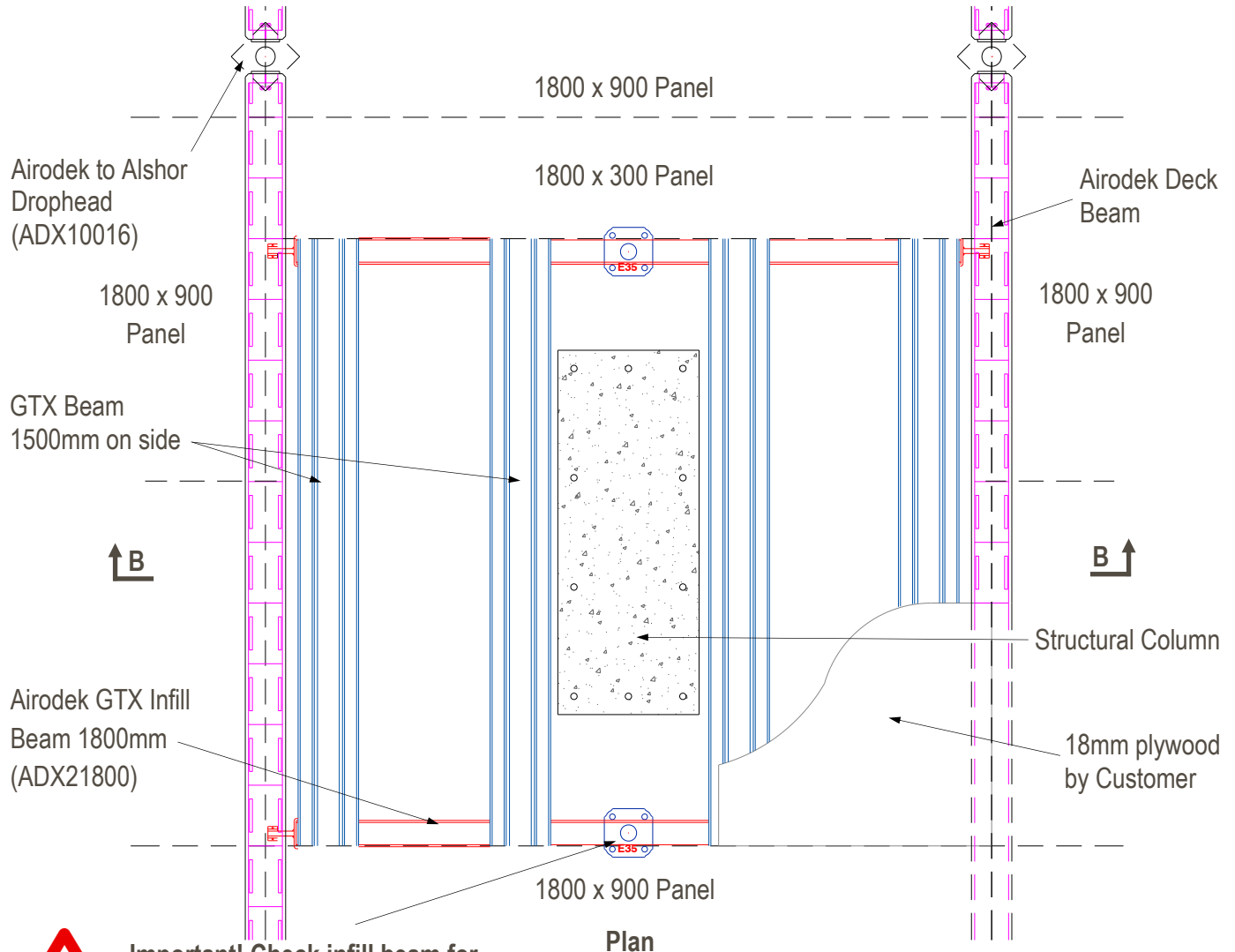
Note: Typical component configurations are shown, all components require design check to ensure adequacy.

1800 x 1200 Column Infill with GTX Infill Beams - Drophead & Deck Beams

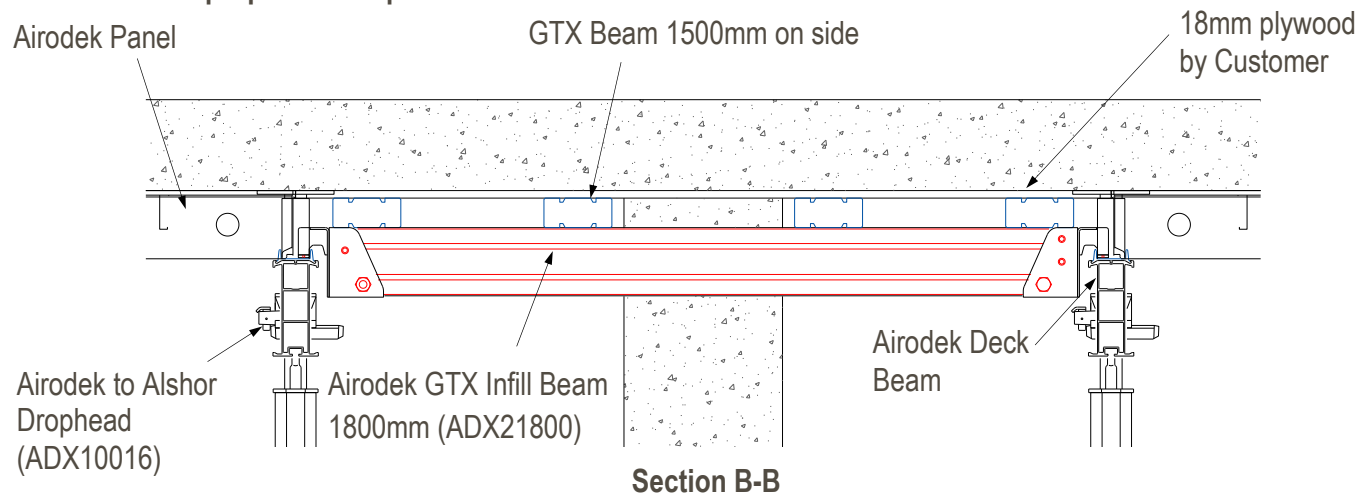


Note: Typical component configurations are shown, all components require design check to ensure adequacy.

1800 x 1500 Column Infill with GTX Infill Beams - Drophead & Deck Beams

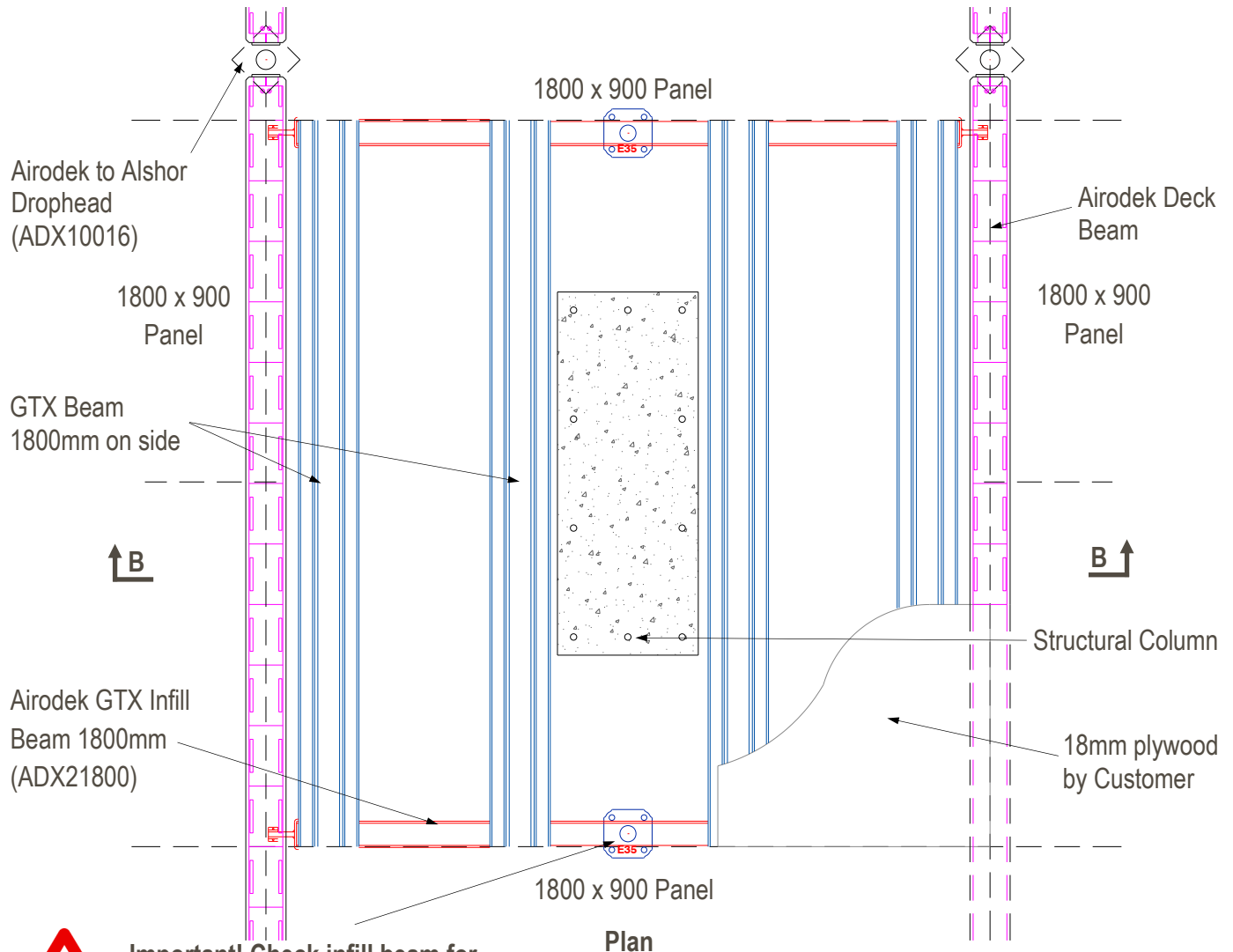


Important! Check infill beam for strength and deflection. Add props to mid span if overloaded

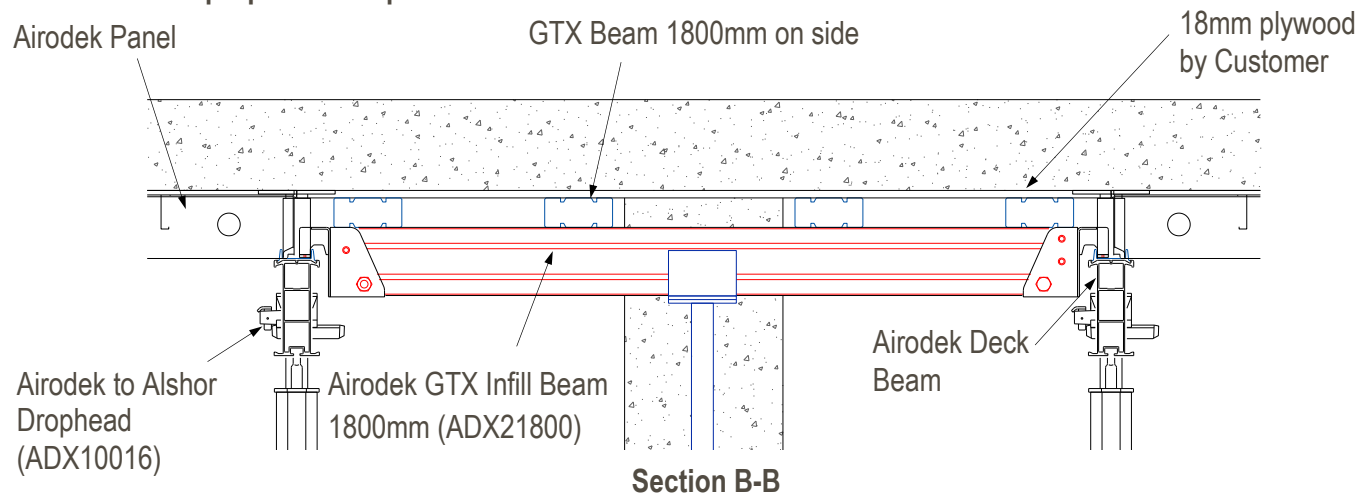


Note: Typical component configurations are shown, all components require design check to ensure adequacy.

1800 x 1800 Column Infill with GTX Infill Beams - Drophead & Deck Beams



Important! Check infill beam for strength and deflection. Add props to mid span if overloaded



Note: Typical component configurations are shown, all components require design check to ensure adequacy.

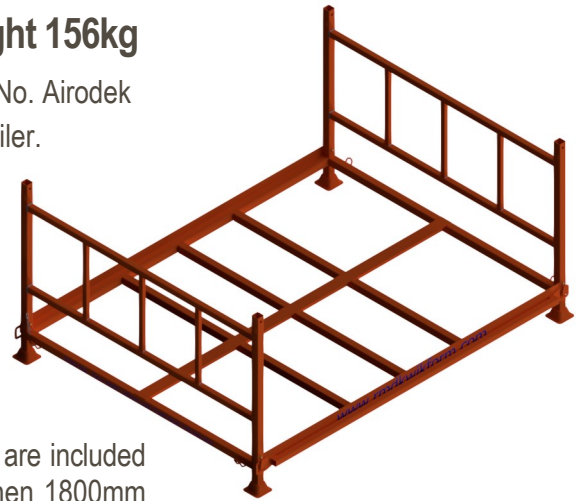
Airodek 15 Panel Stillage Assembly (PAX10018) weight 156kg

A demountable stillage used for the transport and storage of up to 15 No. Airodek Panels. A maximum of 21 Stillages can be loaded on a 13.5m long trailer.

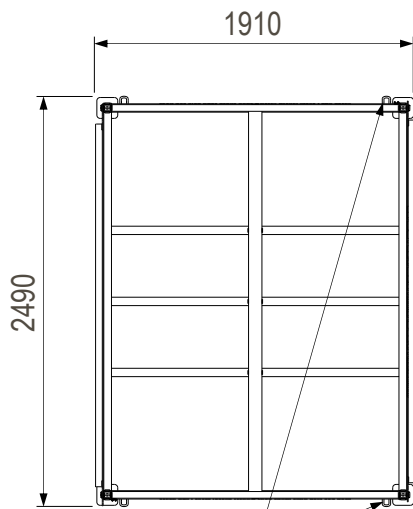
Maximum Laden weight = 920kg



1800mm long forks are required to safely handle this unit with a Fork Truck. Lift from the short side only!



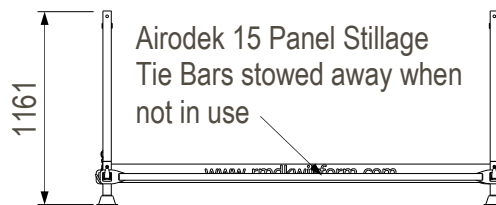
Airodek 15 Panel Stillage End Frame



Lifting points located on base in all 4 corners

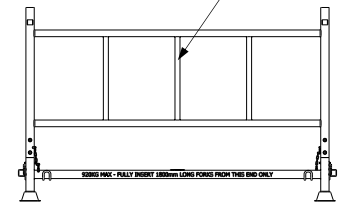
Plan

Note: End Frames & Tie Bars are included in the Stillage Assembly. When 1800mm XL Panels are used, two additional End Frames will be required.



Airodek 15 Panel Stillage Tie Bars stowed away when not in use

Side Elevation



Front Elevation

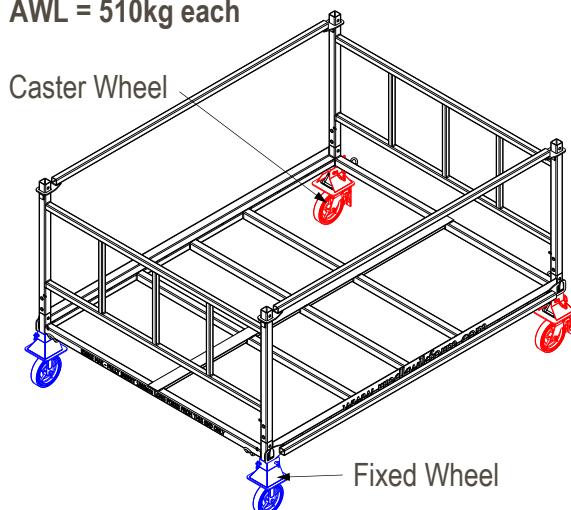
Code	Description	Weight
PAX10019	Airodek 15 Panel Stillage End Frame	6.53kg

Superstacker Slip-on Wheels

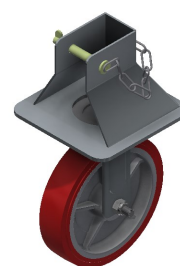
Use two fixed wheels and two casters to make an Airodek 15 Panel Stillage cart, ideal for moving panels around on site.

AWL = 510kg each

Caster Wheel



Fixed Wheel



Fixed Wheel
(PAA10012)



Caster Wheel
(PAA10011)

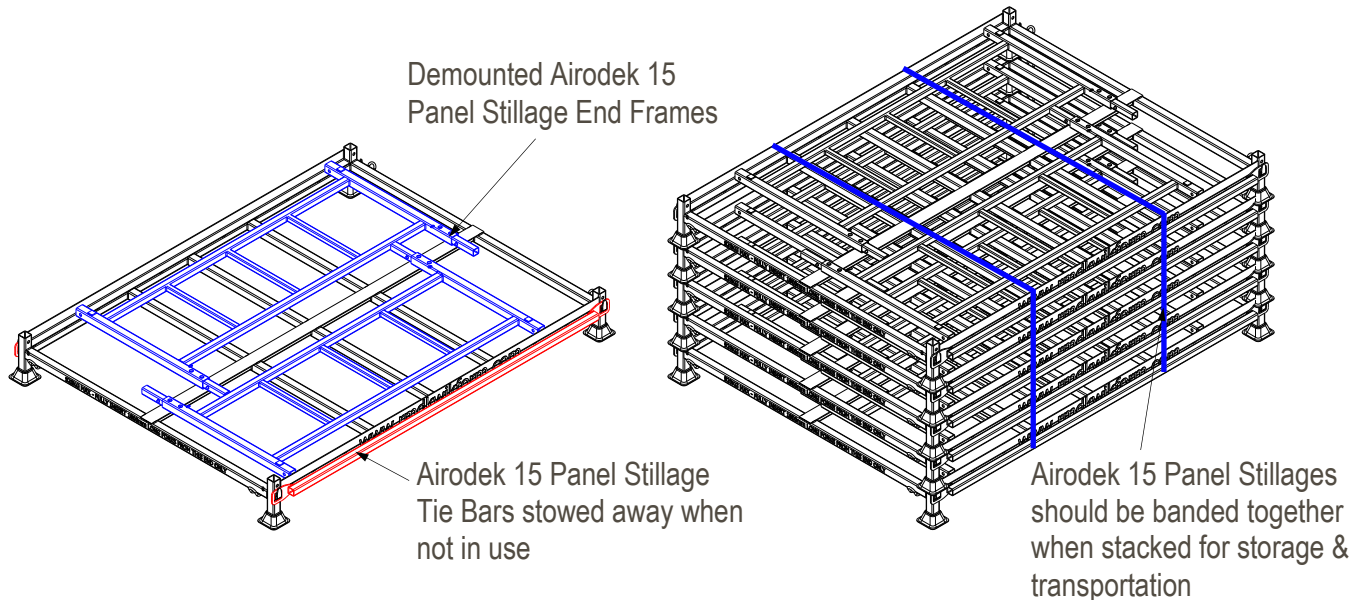
Note: Up to three fully laden Stillage Assemblies containing 900mm wide panels can be stacked and rolled using wheels (or one stillage carrying 1800mm panels plus one stillage carrying 900mm panels).

Code	Description	Weight
PAA10011	Superstacker Slip-on Caster Wheel	6.53kg
PAA10012	Superstacker Slip-on Fixed Wheel	4.76 kg

Airodek 15 Panel Stillage Assembly - Typical Details

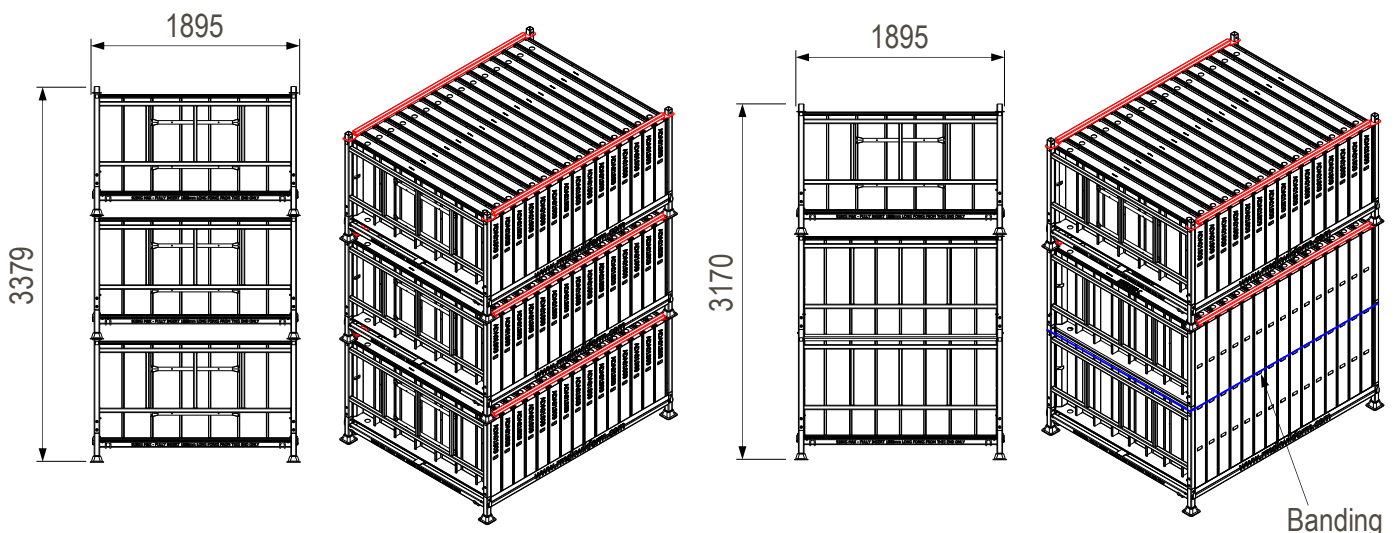
Storing stillages when not in use

Up to ten demounted Airodek 15 Panel Stillages can be stacked on one another for transport and when not in use. Airodek 15 Panel Stillage Tie Bars and End Frames can be stowed within the stillage base to reduce their volume, enabling up to 70 empty units to be transported on a 13.5m long trailer where space is a premium on site.



Stacking stillages when in use

The examples below show the different stacking arrangements for the Airodek 15 Panel Stillage for transport on a road trailer or mounting on Slip-on Wheels.



3 No. Stillages of 1800x900mm Airodek Panels

1 No. Stillage of 1800x1800mm and
1 No. Stillage of 1800x900mm Airodek Panels



Band panels together and to one end frame if the stillage is not filled. Handle part filled stillages with a crane as usual or with a fork truck working from the heavier loaded end only!

DESIGN DATA

Loading The Soffit With Materials



Do not load materials onto the soffit until it is adequately laterally top-restrained by the placement of infill plywood between the panel edges and the permanent works walls and columns; see next section.

Ensure the weight of loaded bins or stillages placed onto the soffit does not exceed 1000kg.

Ensure that timber bites beneath bundles of reinforcement are placed on the intersection of four panels and that the maximum load transferred through these bites does not exceed 1000kg.

Lateral Top-Restraint - Introduction

British Standard BS5975:2019 Code of Practice for Temporary Works Procedures and the Permissible Stress Design of Falsework states in paragraph 19.2.9.1:

'A basic requirement for all falsework systems is that they should be designed to be able to resist, at each stage of construction, the applied vertical loads W together with a horizontal disturbing force F_H which is the greater of:

2.5% of the applied vertical loads (i.e. $2.5\%W$) considered as acting at the points of contact between the vertical loads and the supporting falsework; or

The forces that can result from erection tolerances, normally taken as 1% of the vertical load (i.e. $1\%W$) plus the sum of other imposed loads, including wind, out of vertical by design, concrete pressures, water and waves, dynamic and impact forces and any forces generated by the permanent works.'

Where the falsework is designed using a fully braced system, (e.g. Rapidshor, Megashor etc.) F_H is carried by the internal system of bracing from the point of load application to the falsework foundation.

Where the selected falsework system is not fully braced, (e.g. **Airodek**, Alshor Plus, Tableform, Standard Props etc.) F_H is usually transferred between the point of load application and the permanent works which then provides lateral top-restraint.

During the design of these popular, incompletely braced, top-restrained arrangements, frequently used for in-situ casting of concrete slabs in buildings, the required transfer of load F_H between temporary and permanent works is usually provided by the soffit system being cut closely around previously cast columns and walls which then transfer the loads to the permanent works foundations.

The guidance in the following pages has been established for use by RMDK falsework designers/engineers by the combination of available reference material and engineering judgement to produce 'rules of thumb'. Many of these have already been used with great success in RMD Kwikform for an extended period.

To keep example calculations simple and enable this guidance to be used internationally, the vertical load applied due to access and soffit self weight has been taken as 2.0kN/m^2 .

In example calculations the density of reinforced concrete has been taken as 24.5kN/m^3 and of plain concrete 23.5kN/m^3

Stability During Assembly Stage

All such systems need to be provided with sufficient lateral stability during the assembly phase to enable the equipment to be safely put together and for the minimum number of operatives to access the deck to install ply infill between the system soffit and the permanent works walls and columns.

With Airodek, spacing gates or scissor braces are used to provide this interim stability, with Alshor Plus, a minimum number of brace frames are used, with prop-based systems tripods may also be used.

Lateral Restraint Considerations

For most normal lift-height building applications the $2.5\%W$ value for F_H will govern and for successful falsework design a number of important criteria must be met:

1, Permanent Works Competence

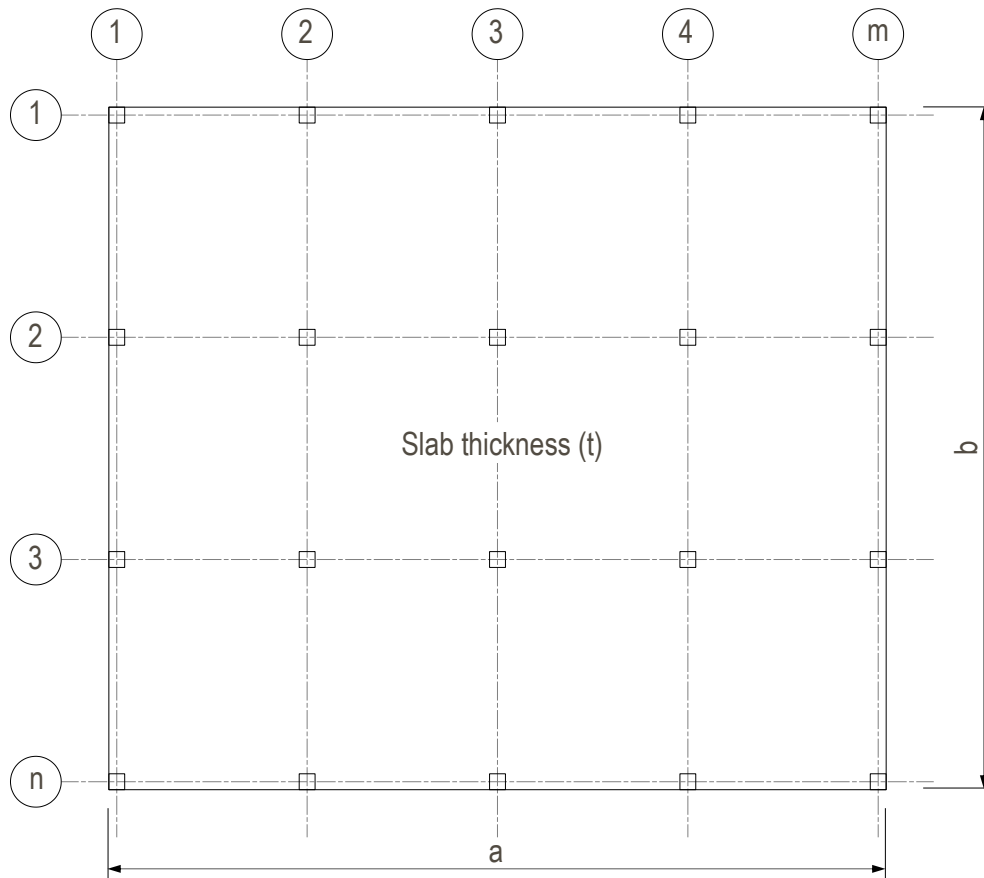
The previously cast walls and columns must be capable of resisting the top-restraint loads F_H . The customer is responsible for checking that the permanent works can carry these loads and, in order that these checks can be made, the top-restraint loads should be indicated on the RMDK scheme drawing.

For falsework to the full building area having x column gridlines in one direction and y column gridlines in the other and relatively constant slab thickness, the design top-restraint load for each column, $f_H = F_H/[x(y-1)]$ in the direction parallel to the x grid lines and $F_H/[y(x-1)]$ in the direction parallel to the y grid, see figure 1. The number of gridlines is reduced by one in each case because transfer of horizontal loads between the soffit and permanent works is usually by compression only, one grid of columns in each direction is hence inoperative.

In practice it is sufficient to calculate the higher of these values and state that it is the customer's responsibility to verify that each column can safely resist the higher top-restraint load in both directions.

Great care should be taken when the columns below the wet deck slab are poured with that slab or where precast columns are used particularly if, as is commonly the case, they are not grouted and cured to their supporting slab when the slab they support is cast. In such circumstances, diagonal props or a braced falsework tower can be designed and supplied to laterally restrain the top of each column/column form for a restraint load of f_H . In such cases 50% of the self weight of the columns also needs to be included in W . Alternatively the whole falsework should be internally braced such that it can resist horizontal load F_H .

Figure 1 - Lateral Top Restraint



Vertical load due to concrete: **$abtp$** . Where p is the density of the concrete, usually taken as 24.5 kN/m^3 .

Vertical load due to live load and self weight of equipment = 2.0 kN/m^2 .

Total vertical load: **$W = ab(tp + 2.0 \text{ kN/m}^2)$**

For example:

Where $a = 24 \text{ m}$, $b = 21 \text{ m}$ & $t = 200 \text{ mm}$

$$W = 24 \text{ m} \times 21 \text{ m} \times (0.2 \text{ m} \times 24.5 \text{ kN/m}^3 + 2.0 \text{ kN/m}^2) = \underline{3480 \text{ kN}}$$

Then

$$F_H = 2\frac{1}{2}\%W = 0.025 \times 3480 \text{ kN} = \underline{87 \text{ kN}}$$

If $x=5$ & $y=4$ (number of column gridlines),

Then f_H is the greater of : $F_H/[x(y-1)] = 87 \text{ kN}/[5 \times 3] = 5.8 \text{ kN}$

$$F_H/[y(x-1)] = 87 \text{ kN}/[4 \times 4] = 5.4 \text{ kN}$$

Therefore use

$$f_H = 5.8 \text{ kN}$$

2, Temporary Works Competence

The soffit formwork system has to have sufficient in-plane strength and stiffness to be able to transfer top-restraint loads from all loaded areas into the previously cast walls and columns. For flat soffit construction, the presence of what can be considered as a continuous plate of face contact material in areas enclosed on all sides by columns and walls will nearly always provide sufficient in-plane stiffness and edge bearing strength to transfer all lateral top-restraint loads.

Where drop beams are present on the column grid lines, lateral top-restraint loads have to find their way from the flat soffit areas, through the drop beam edge formwork, into the drop beam soffit formwork and away into the columns or walls. Drop beam edge formwork is nearly always designed and supplied by the customer and care is needed with workmanship on site to ensure that drop beam edge forms are braced such that adequate load transfer takes place. The deeper the drop beams relative to their width, the more care is needed to ensure that the drop beams can not lozenge during concrete pouring.

When the soffit is not enclosed by columns or walls on all sides the situation becomes more complicated and additional local top-restraint may be required; vulnerable areas include:

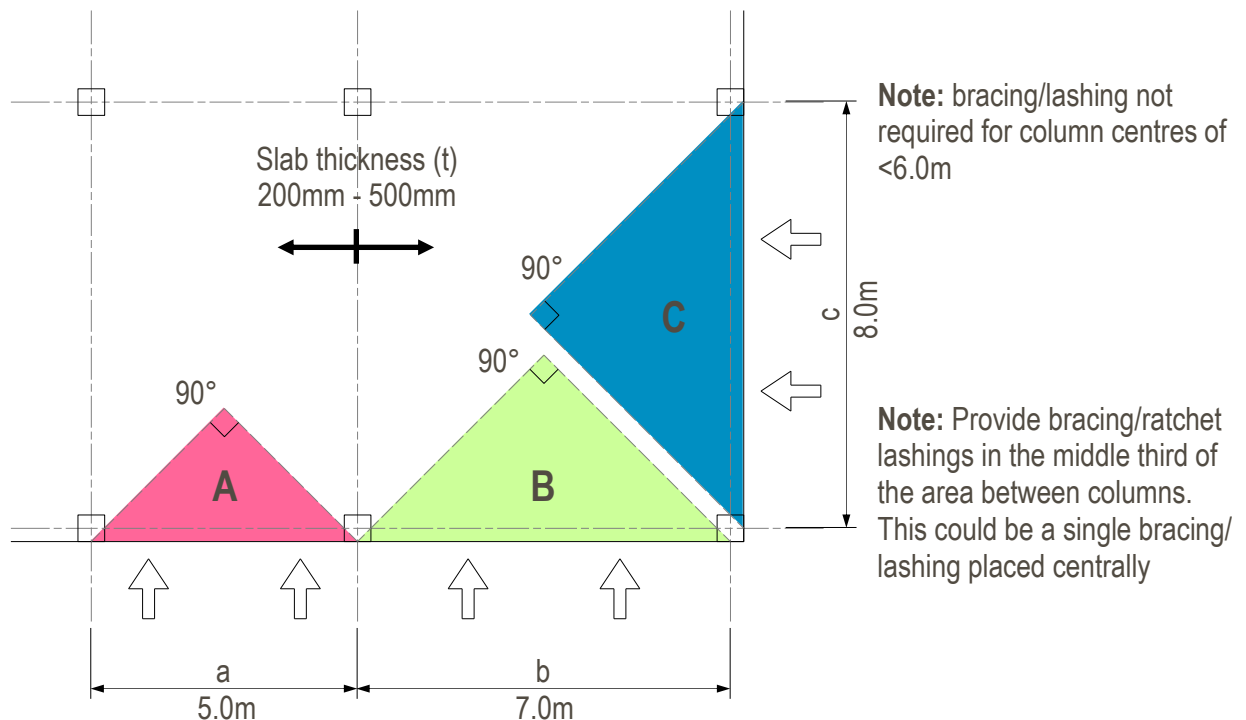
Perimeter Edges Between Columns

At the perimeter edge of a slab being cast, particularly where the column spacing is wide, the section of soffit formwork mid-way between the columns may move perpendicular to the edge of the slab due to both concrete pressure acting on the edge formwork and other applied lateral loads. A minor effect may be a finished slab edge that bulges between columns and a little grout loss from the soffit; more seriously, a local section of falsework remote from the columns could become unstable and collapse, although there are no published cases of failure of this nature.

Systems and schemes vulnerable to this effect should be designed with additional lateral top-restraint in the form of diagonal bracing or ratchet lashings placed in the middle third between the column grid. Different soffit systems have different in-plane strength and stiffness and hence should be treated differently; examples are included for the Airodek system from [Sheet 87](#) onwards.

These local braces/restraints should be designed to carry the top-restraint force associated with a triangular area of slab as shown in figure 2 on the next sheet, plus the concrete pressure associated with full fluid concrete pressure acting over an edge form length of $\frac{1}{2}$ of the dimension between column centres.

Figure 2 - Provision of Local Lateral Restraint of Perimeter Edges



Area A: $a \leq 6.0\text{m}$ and $t \leq 300\text{mm}$ hence no additional restraints are required

Area B = $7.0\text{m} \times 7.0\text{m} / 4$	=	12.25m ²
Concrete load B = $12.25\text{m}^2 \times 24.5\text{kN/m}^3 \times 0.5\text{m}$	=	150kN
Live load & Self weight B = $12.25\text{m}^2 \times 2.0\text{kN/m}^2$	=	24.5kN
Total Load Area B = $150\text{kN} + 24.5\text{kN}$	=	174.5kN
Top restraint load area B = $174.5\text{kN} \times 0.025$	=	4.36kN
Concrete Pressure Area B = $50\% \times 7.0\text{m} (23.5\text{kN/m}^3 \times 0.5\text{m}/2 \times 0.5\text{m})$	=	10.3kN
Design restraint load Area B = $4.36\text{kN} + 10.3\text{kN}$	=	14.7kN
Total load in bracing/ratchet lashings at 45° = $14.7\text{kN} \times \sqrt{2}$	=	<u>20.8kN</u>

Area C = $8.0\text{m} \times 8.0\text{m} / 4$	=	16.0m ²
Concrete load C = $16.0\text{m}^2 \times 24.5\text{kN/m}^3 \times 0.5\text{m}$	=	196kN
Live load & Self weight C = $16.0\text{m}^2 \times 2.0\text{kN/m}^2$	=	32.0kN
Total Load Area C = $196\text{kN} + 32.0\text{kN}$	=	228kN
Top restraint load area C = $228\text{kN} \times 0.025$	=	5.7kN
Concrete Pressure Area C = $50\% \times 8.0\text{m} (23.5\text{kN/m}^3 \times 0.5\text{m}/2 \times 0.5\text{m})$	=	11.8kN
Design restraint load Area C = $5.7\text{kN} + 11.8\text{kN}$	=	17.5kN
Total load in bracing/ratchet lashings at 45° = $17.5\text{kN} \times \sqrt{2}$	=	<u>24.7kN</u>

Note how the required restraint loads increase rapidly with increasing column spacing and slab thickness!

Leading Edge Soffit Formwork

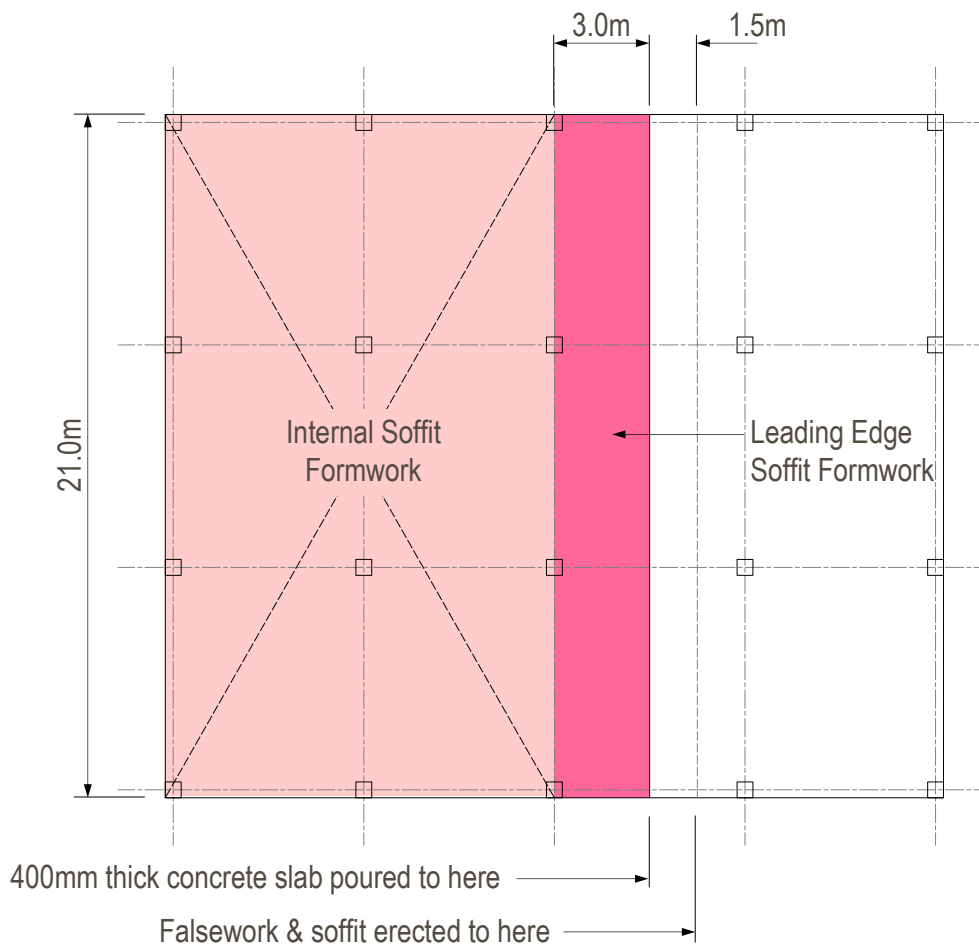
Areas of falsework erected beyond the last line or area of columns/walls capable of providing lateral top-restraint are termed 'leading edge soffit formwork'. The requirement to design and provide additional top-restraint in these areas depends on the ability of the soffit formwork to collect the top-restraint loads and concrete pressure associated with the leading edge area and transfer these back into the internal soffit area and away into the walls/columns.

Where the soffit system is not able to transfer loads in this way, additional bracing or inclined ties shall be designed and provided to carry the top-restraint load associated with the leading edge area plus the full fluid concrete pressure acting on 50% of the length of the line dividing the leading edge soffit area from the internal soffit area, see figure 3 on [Sheet 85](#).

Note that if the falsework and soffit are erected beyond the front of the leading edge of the slab and infills with columns/walls are placed around the next line of columns/walls, then this area of soffit formwork is no longer considered to be leading edge, see figure 4 on [Sheet 86](#). As such no additional top-restraint measures are required.

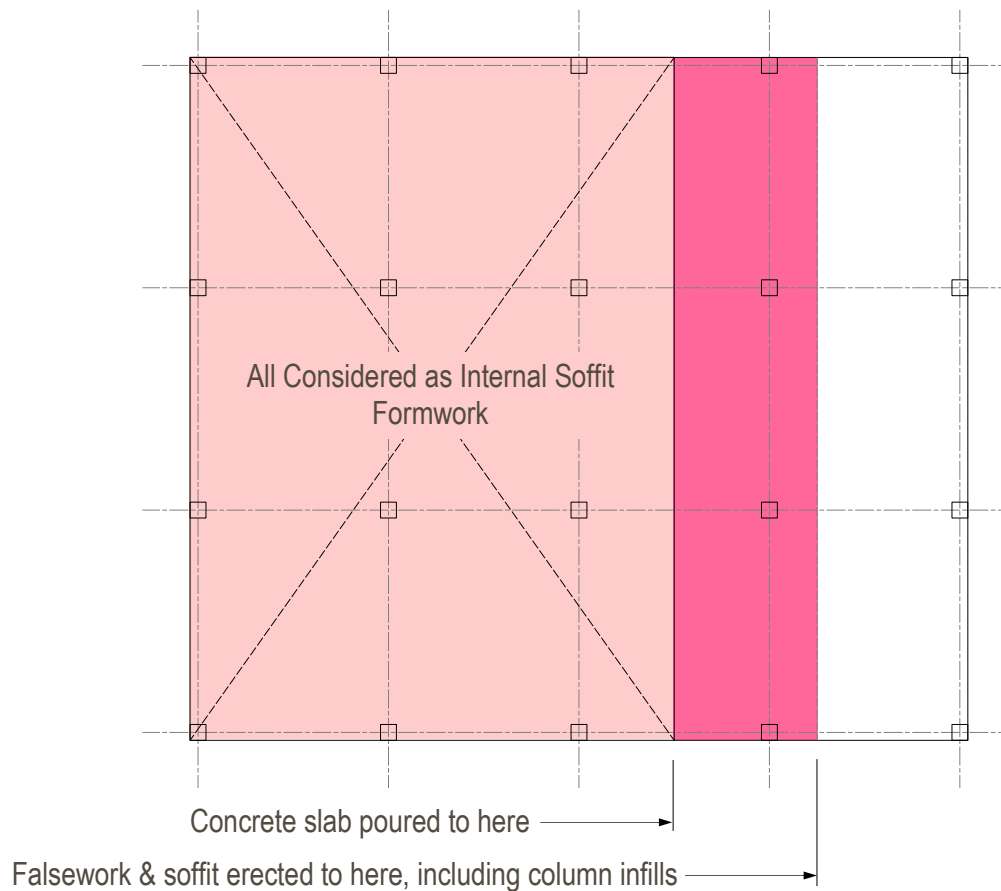
Experience gained over many years has shown that, provided the column centres are equal to or less than 6m and slabs are equal to or less than 300mm thick, additional leading edge restraint is not required for any RMDK system falsework other than on cantilevered beams to prevent overturning.

Figure 3 - Unrestrained Leading Edge Soffit Formwork



Leading edge concrete load = $3.0\text{m} \times 21.0\text{m} \times 0.4\text{m} \times 24.5\text{kN/m}^3$	=	617kN
Leading edge live load & self weight = $4.5\text{m} \times 21.0\text{m} \times 2.0\text{kN/m}^2$	=	189kN
Total leading edge vertical load Area = $617\text{kN} + 189\text{kN}$	=	806kN
Top restraint load area = $806\text{kN} \times 0.025$	=	20.2kN
Concrete pressure load = $50\% \times 21.0\text{m} \times (23.5\text{kN/m}^3 \times 0.4\text{m}/2 \times 0.4\text{m})$	=	19.7kN
Design top restraint load for leading edge soffit formwork = $20.2\text{kN} + 19.7\text{kN}$	=	39.9kN
Total load in bracing/ratchet lashings at 45° = $39.9\text{kN} \times \sqrt{2}$	=	<u>56.4kN</u>

Figure 4 - Non-Leading Edge Soffit Formwork



3, Competence of the Interface

The interface is the point where temporary works and permanent works meet and top-restraint load is transferred between them. Most usually this will be via a section of plywood infill supplied by the customer and positioned by joiners on site. Materials and fixings will almost never be explicitly shown on RMDK drawings and hence responsibility must lie with the customer for correct design and installation.

A particular risk in this area is the case where a number of columns or walls on a building lift are accidentally constructed with the top level cast below the soffit level. Impromptu plywood makeup to extend the height of these short columns may not have the structural competence to transfer top-restrained loads.

Rules for Various Configurations of Airodek Equipment

Airodek Prop and Panel System

Four Airodek Panels are supported at the point where they meet on an Airodek Crown. The locating lugs and claws on the crown provide a good connection and load transfer between the panel frames which forces the soffit structure to act as a continuous stiff plate.

Provided the soffit is flat, no additional top-restraint is required either midway between columns at slab perimeters or in the leading edge soffit area. Care needs to be taken when steps in soffit level force panel level changes that result in loss of continuity of the soffit plate.

Airodek Decking

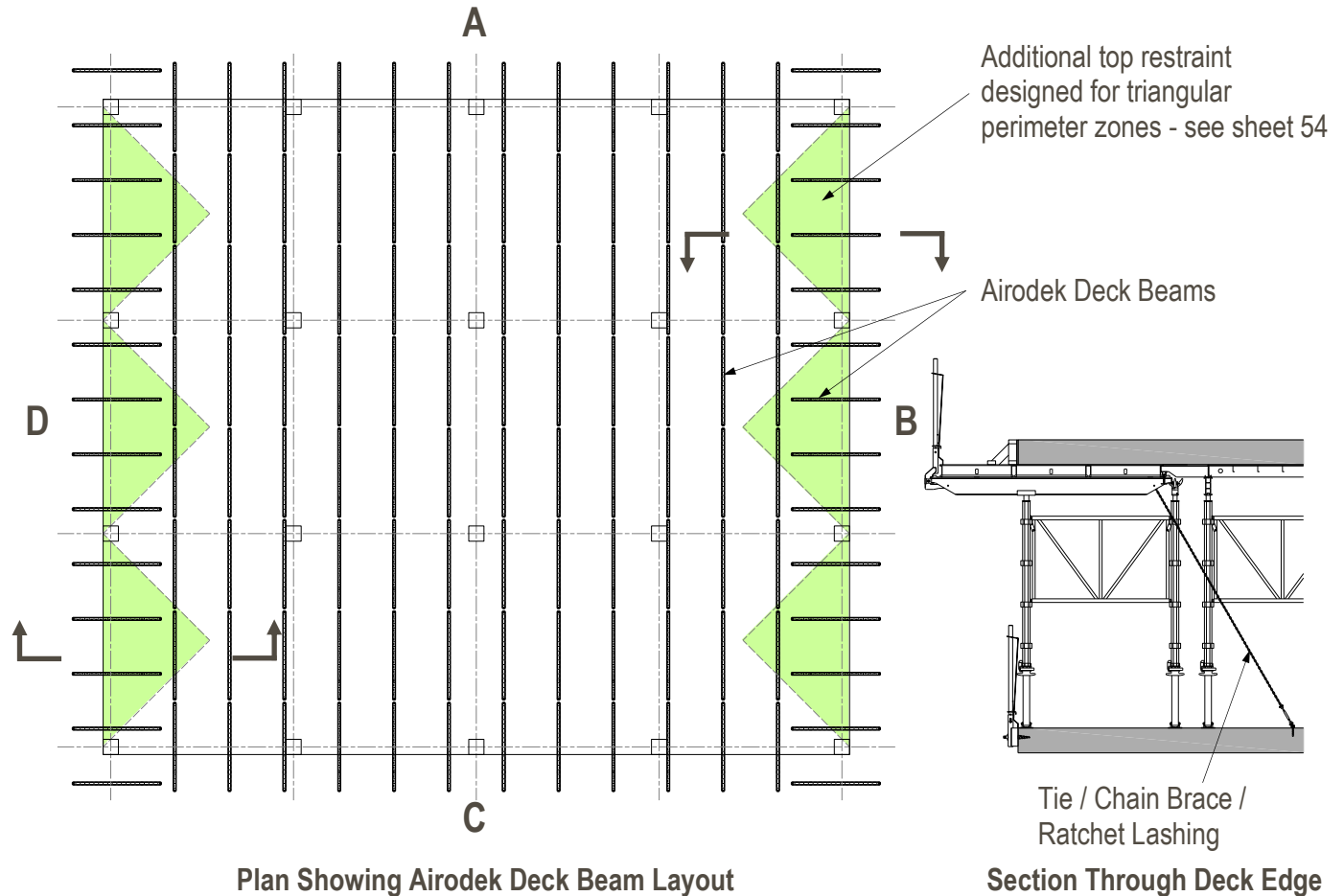
Airodek Panels meet at and are supported by Airodek Deck Beams. The panels locate into the castellated plastic comb incorporated into the top of the Decking Beams. The comb provides a less positive and lower strength connection between the panel edge members which means that additional measures are required to ensure top lateral restraint as shown in [Page 80](#) onwards.

Deck Beams engage over the claws of Airodek Crowns or Airodek/Alshor Drop Heads which provide a good load bearing connection between these beams capable of transferring top-restraint loads through the soffit system along the line of the Deck Beams.

Perimeter Edges

At the building perimeter, Airodek Deck Beams, shown in figure 5 below, are orientated so that they run perpendicular to the slab edge and cantilever beyond the edge of the building to provide space for access and placement of the edge slab formwork. In these areas, the end of each Deck Beam remote from the slab edge is tied down to the slab using inclined ties/braces/ratchet lashings.

Figure 5 - Airodek Decking Perimeter



Building edges A & C have continuous runs of Deck Beams transferring edge top restraint loads into the internal soffit area. Design ties/braces/ratchet lashings only to prevent edge Deck Beams from tipping over.

Building edges B & D have single Deck Beams & there is less competent top restraint load transfer with the internal soffit area. Design ties/braces/ratchet lashings to carry top restraint loads & concrete pressure loads described on [Sheet 82](#).

Where the Deck Beam at the edge of the building is connected through a Drop Head or Crown to another Deck Beam further under the slab, diagonal ties/bracing/ratchet lashings should be designed only to prevent the cantilevering Deck Beams tipping up as a result of application of the access load on the cantilever. This loading condition should be considered in the least favourable loading condition when the soffit is unloaded i.e. before fixing of rebar or placing of concrete.

Where the Deck Beam at the edge of the building is not connected via a Drop Head or Crown to another Deck Beam further under the slab, the inclined braces/ties/lashings should be designed to carry the greater of:

Either;

The load to prevent the edge Deck Beam tipping up due to application of the access load to the cantilever when the soffit is empty i.e. before fixing of rebar or placement of concrete.

Or;

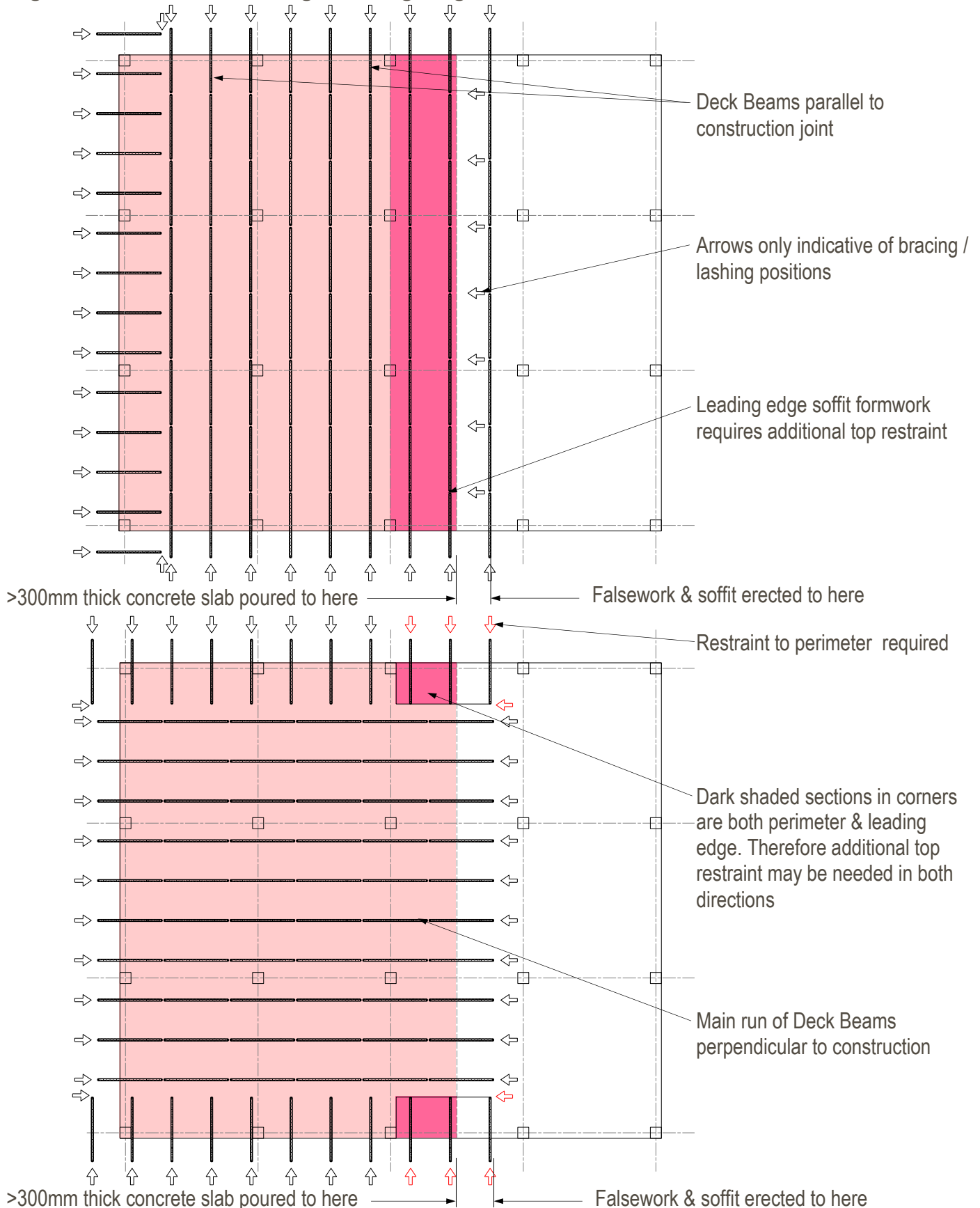
The top-restraint and concrete pressure loads described on [Sheet 82](#).

Leading Edge Soffit Areas

If the leading edge soffit area is tied back into the internal soffit area by continuous runs of Deck Beams linked by Crowns or Dropheads, no additional top-restraint provision is required (see figure 6).

If the leading edge soffit area is tied back into the internal soffit area by the Airodek Panel frame interlock with the Deck Beam plastic combs only, design and provide lateral restraints in accordance with the paragraph on Leading Edge Soffit Formwork - see [Sheet 84](#).

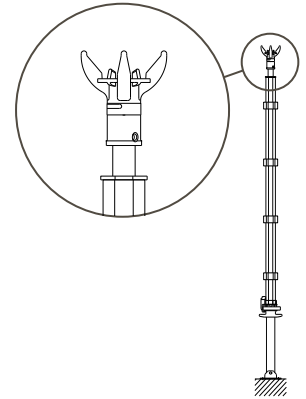
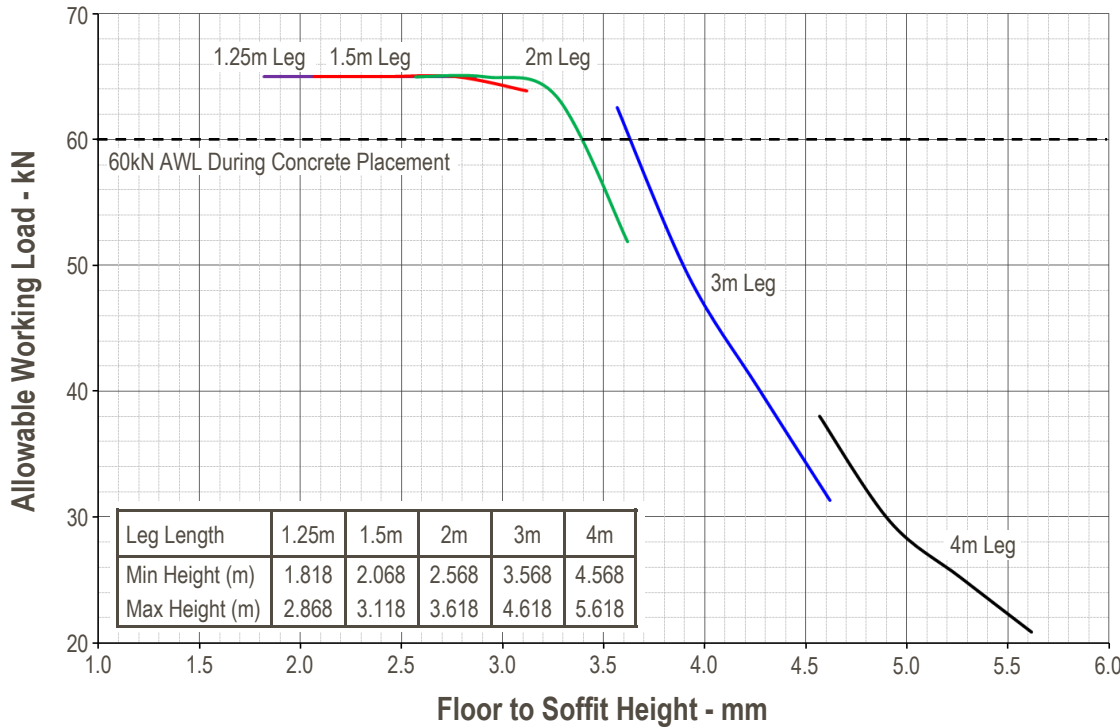
Figure 6 - Airodek Decking Leading Edge



Allowable Working Load in Alshor Plus Props with Airotek Crown Plus Adapter. Base Fixed Against Rotation

Chart A1

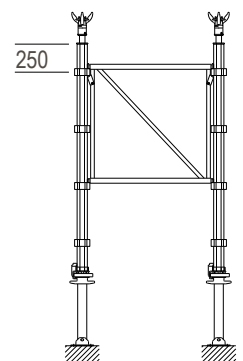
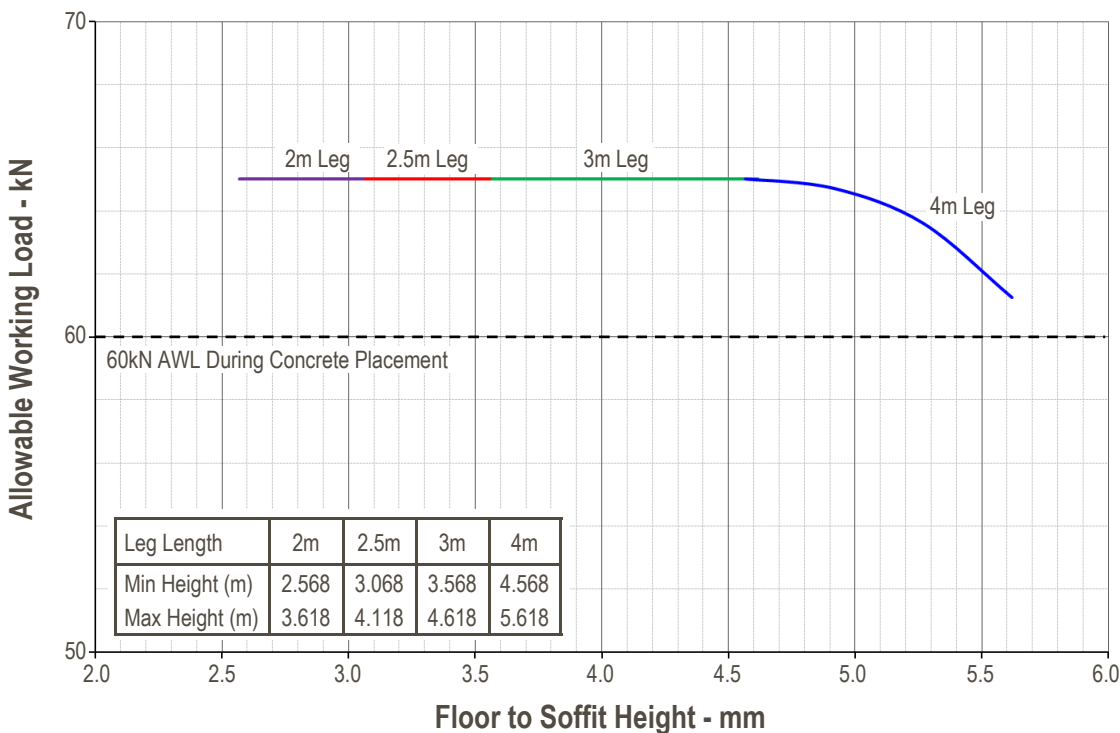
No Frames



Allowable Working Load in Alshor Plus Tower Legs with Airotek Crowns Plus Adapters. Base Fixed Against Rotation

Chart A2

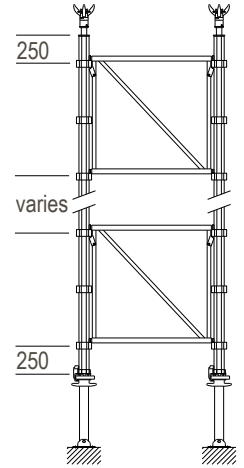
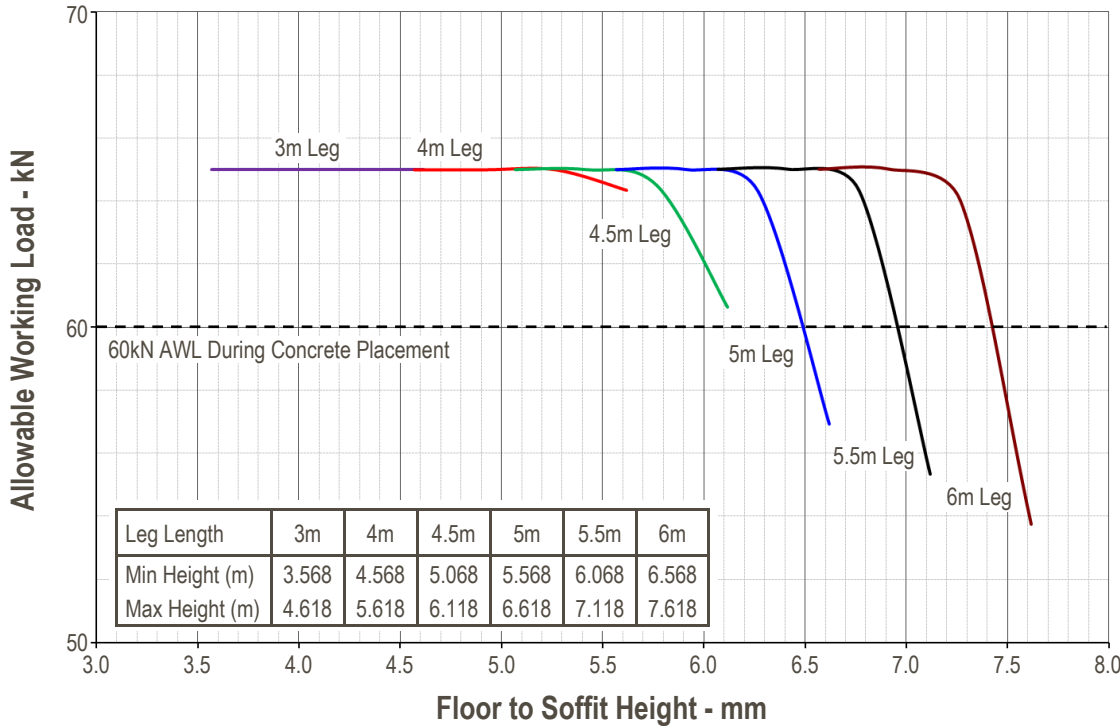
1 Frame



Allowable Working Load in Alshor Plus Tower Legs with Airotek Crown Plus Adapter. Base Fixed Against Rotation

Chart A3

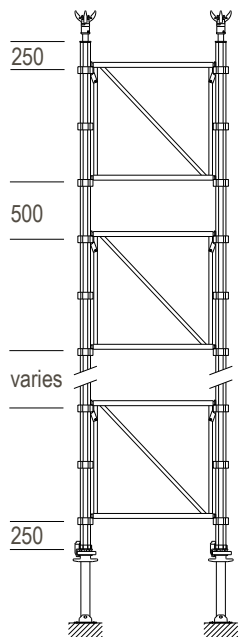
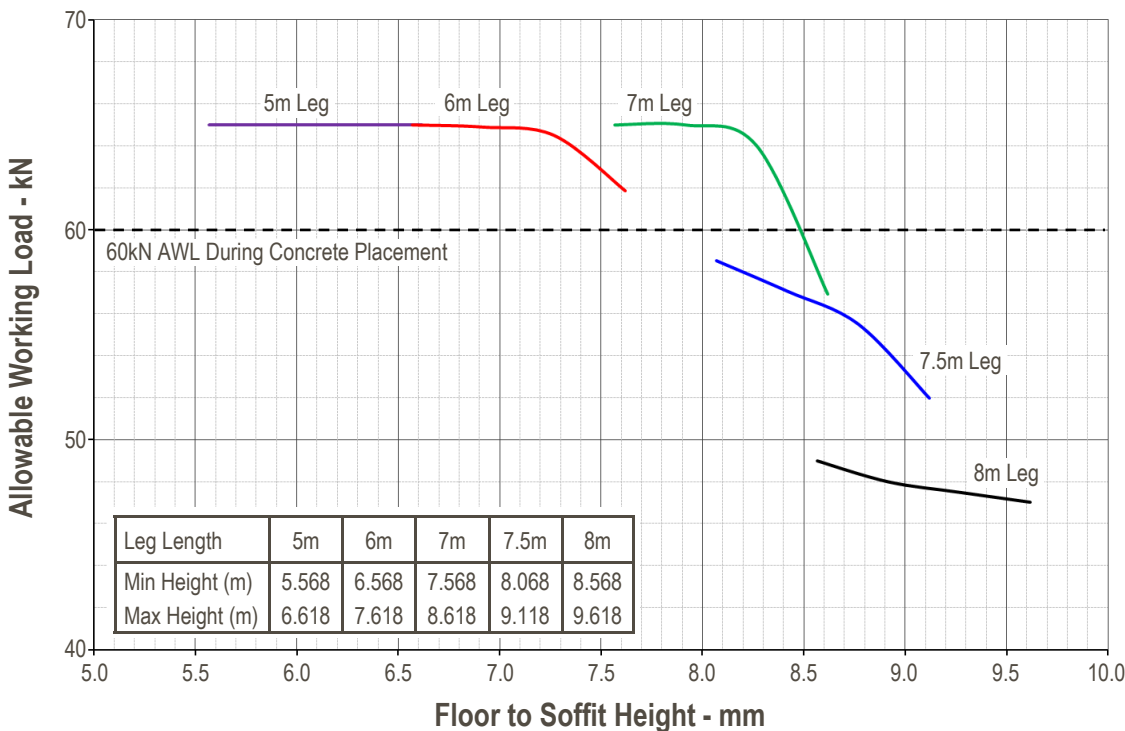
2 Frames



Allowable Working Load in Alshor Plus Tower Legs with Airotek Crown Plus Adapter. Base Fixed Against Rotation

Chart A4

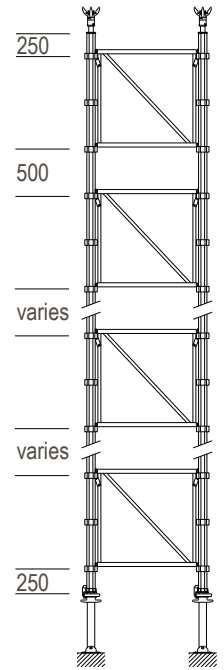
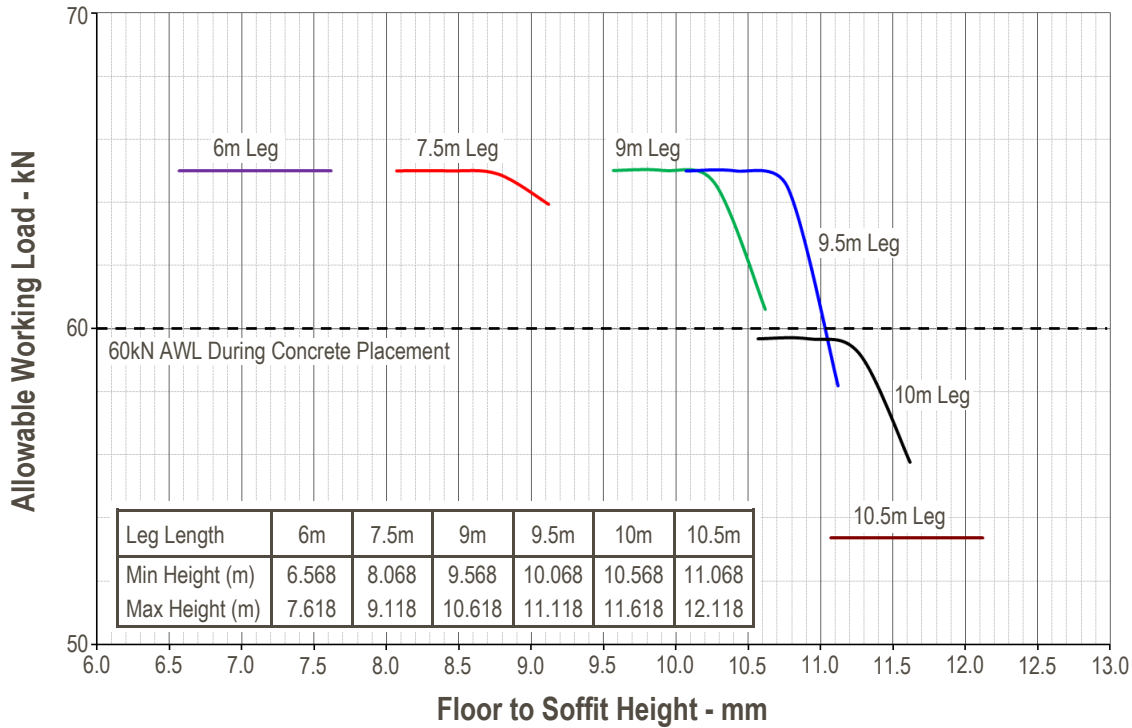
3 Frames



Allowable Working Load in Alshor Plus Tower Legs with Airodek Crown Plus Adapter. Base Fixed Against Rotation

Chart A5

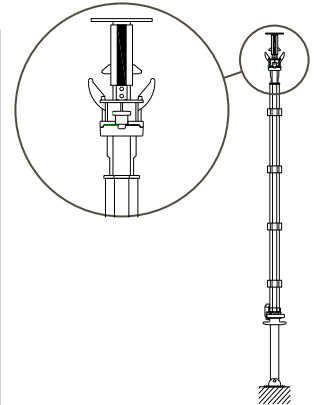
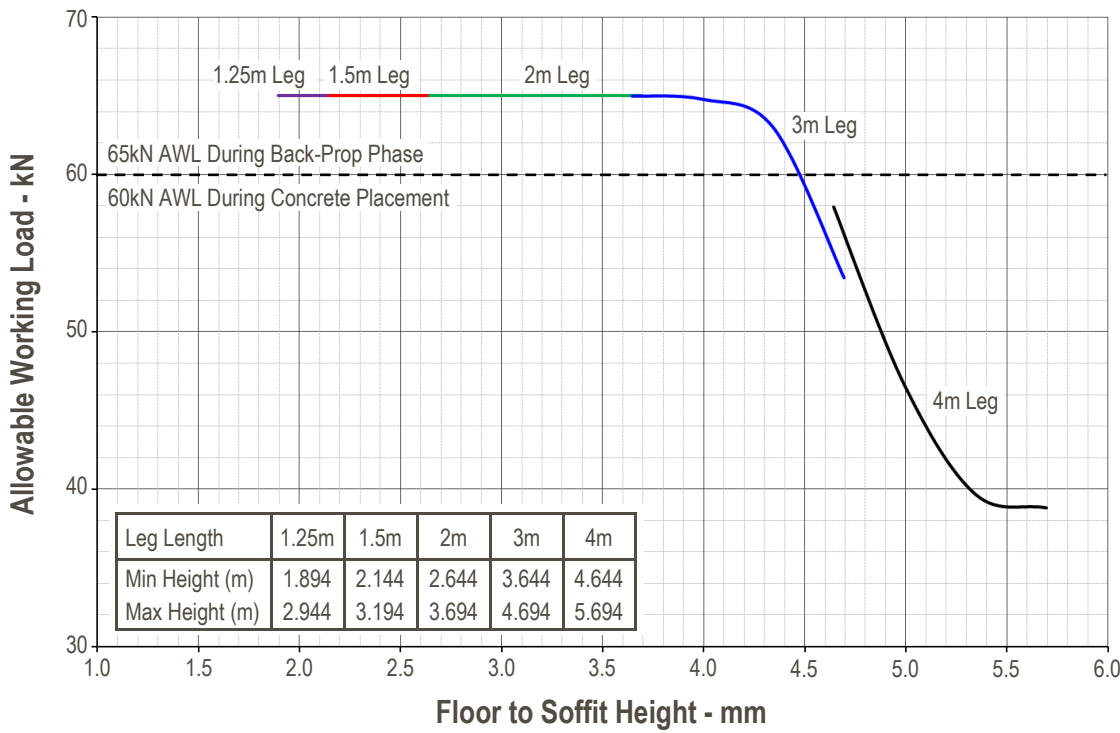
4 Frames



Allowable Working Load in Alshor Plus Props with Alshor Plus Drophead. Base Fixed Against Rotation

Chart B1

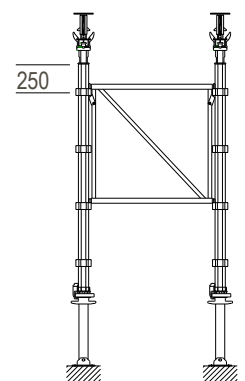
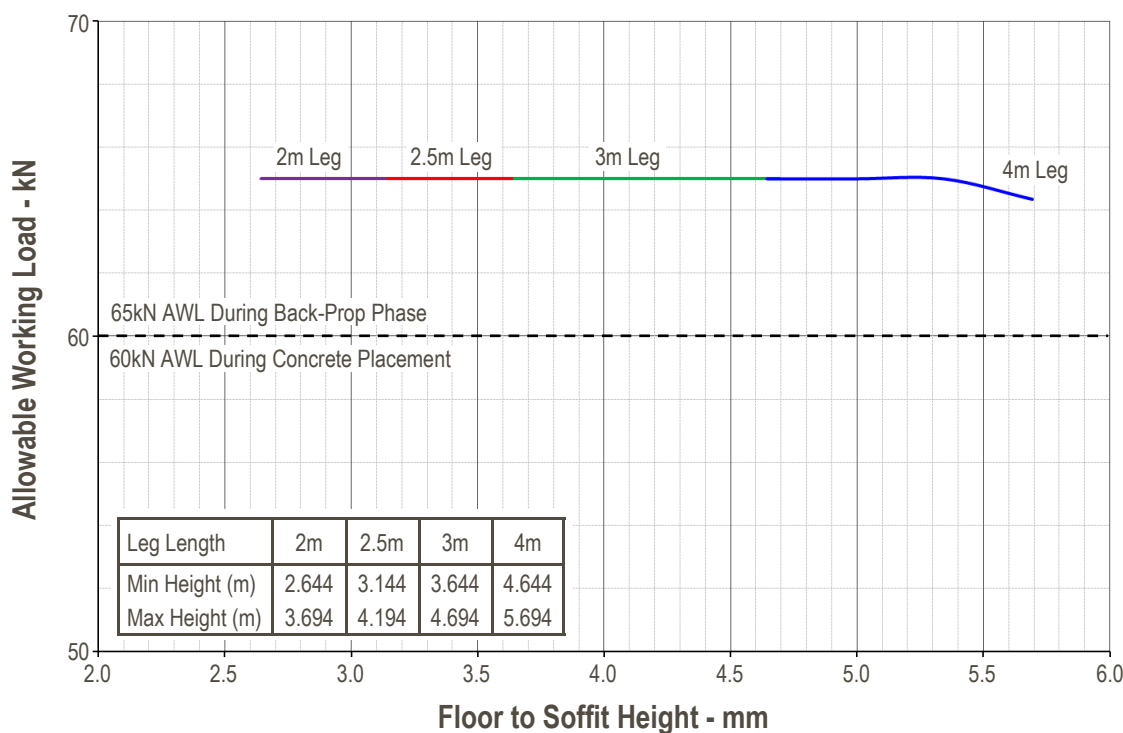
No Frames



Allowable Working Load in Alshor Plus Tower Legs with Alshor Plus Drophead. Base Fixed Against Rotation

Chart B2

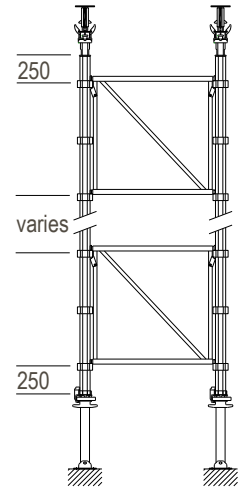
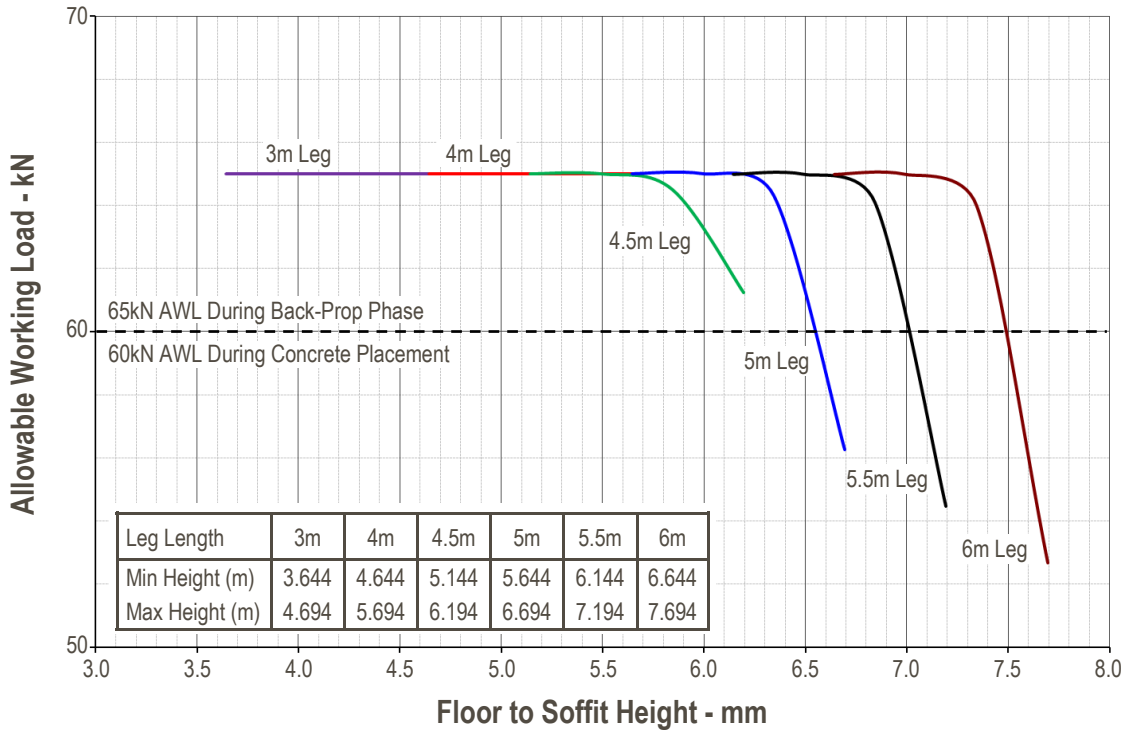
1 Frame



Allowable Working Load in Alshor Plus Tower Legs with Alshor Plus Drophead. Base Fixed Against Rotation

Chart B3

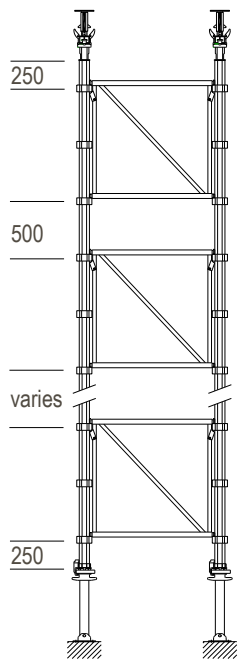
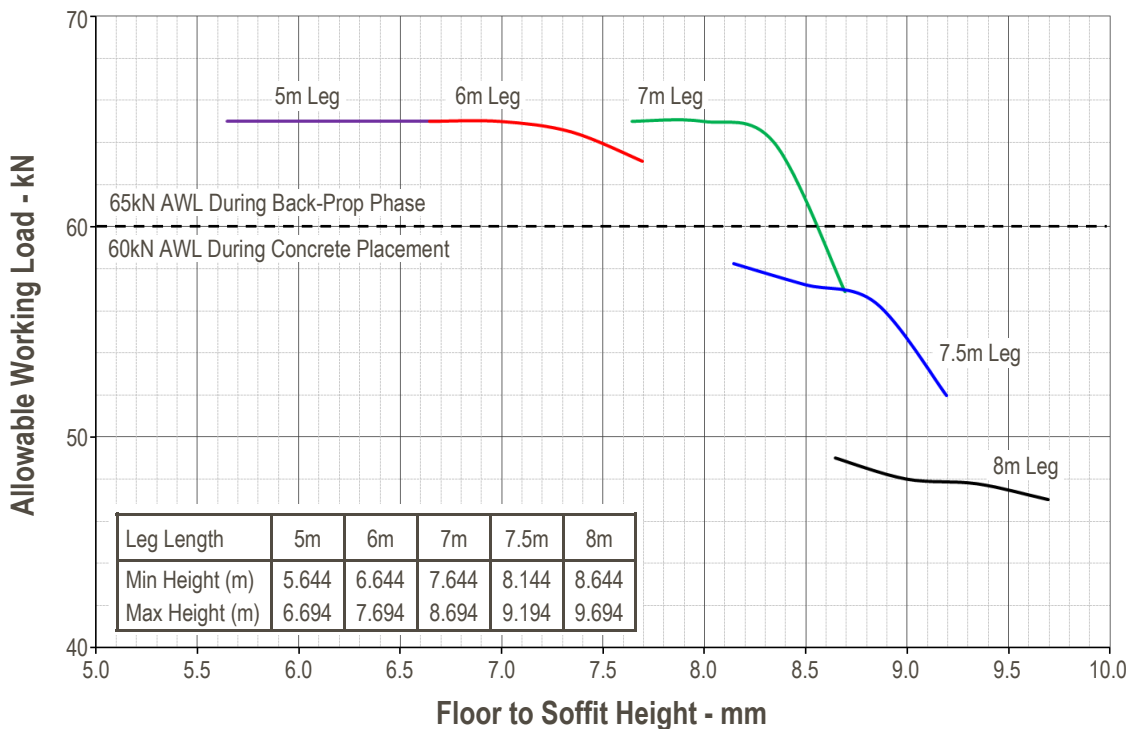
2 Frames



Allowable Working Load in Alshor Plus Tower Legs with Alshor Plus Drophead. Base Fixed Against Rotation

Chart B4

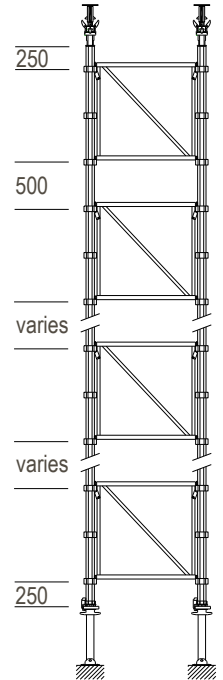
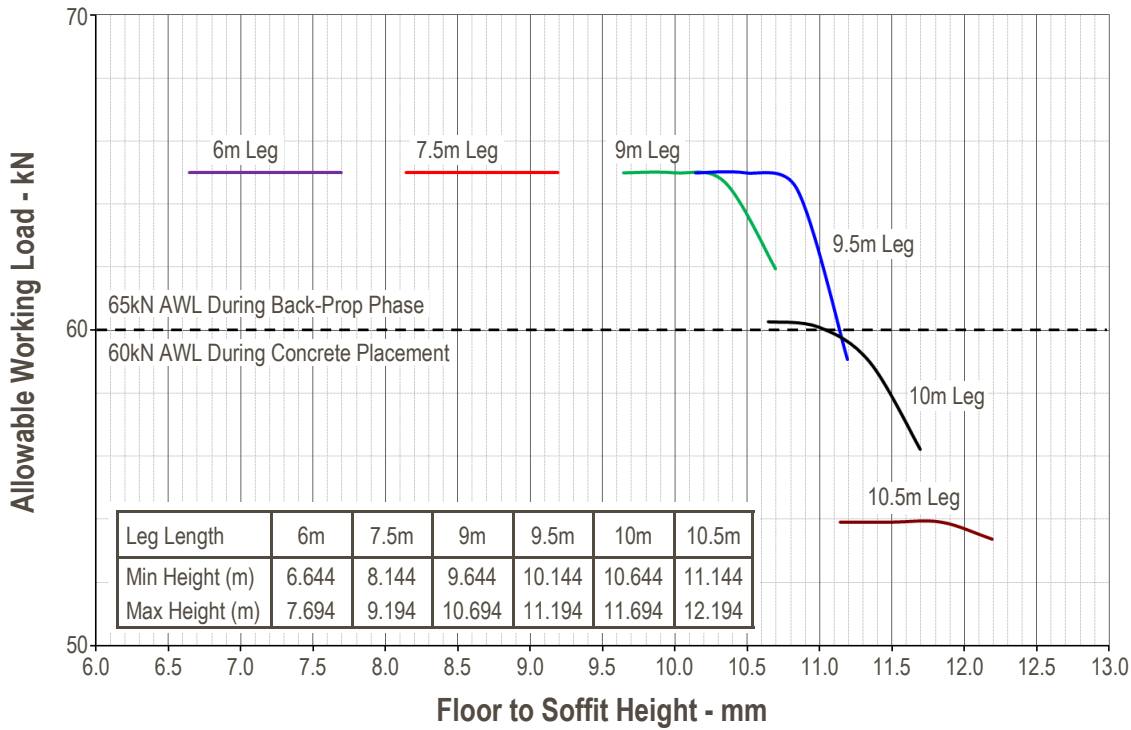
3 Frames



Allowable Working Load in Alshor Plus Tower Legs with Alshor Plus Drophead. Base Fixed Against Rotation

Chart B5

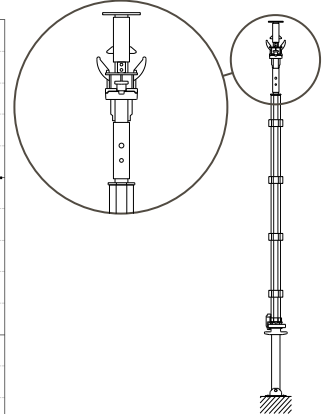
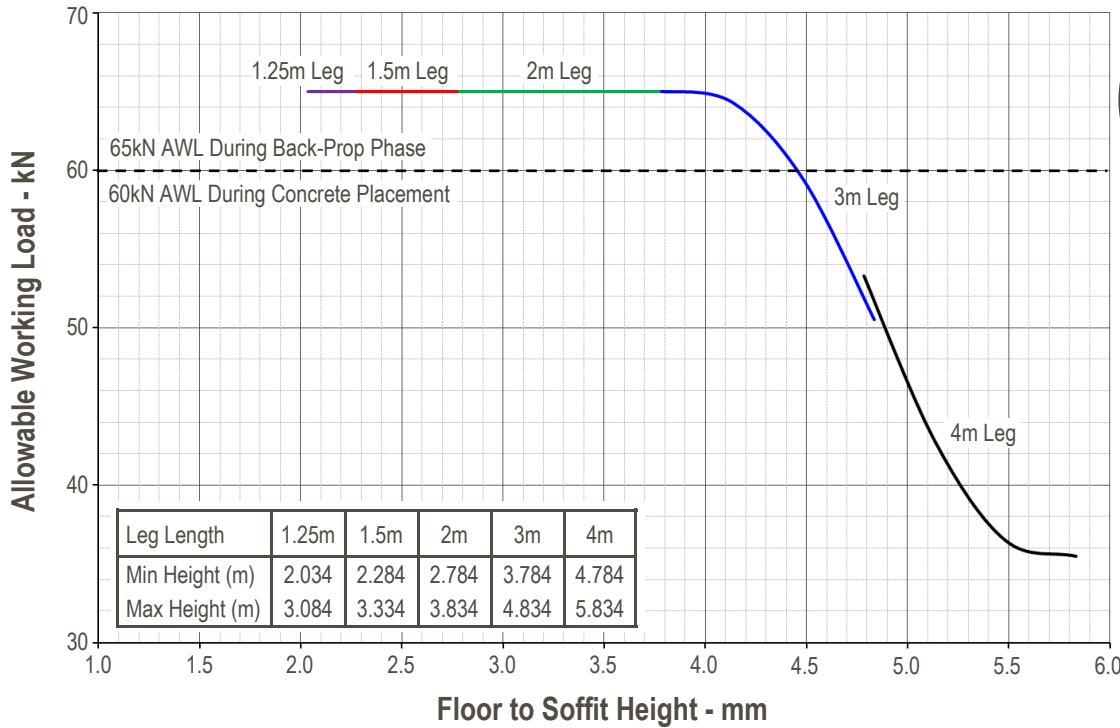
4 Frames



Allowable Working Load in Individual Alshor Plus Props with Airodek Drophead Plus Adapter. Base Fixed Against Rotation

Chart C1

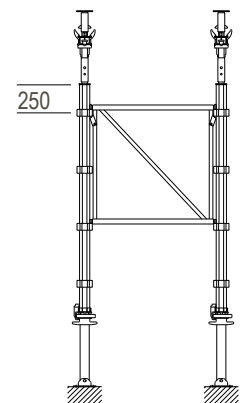
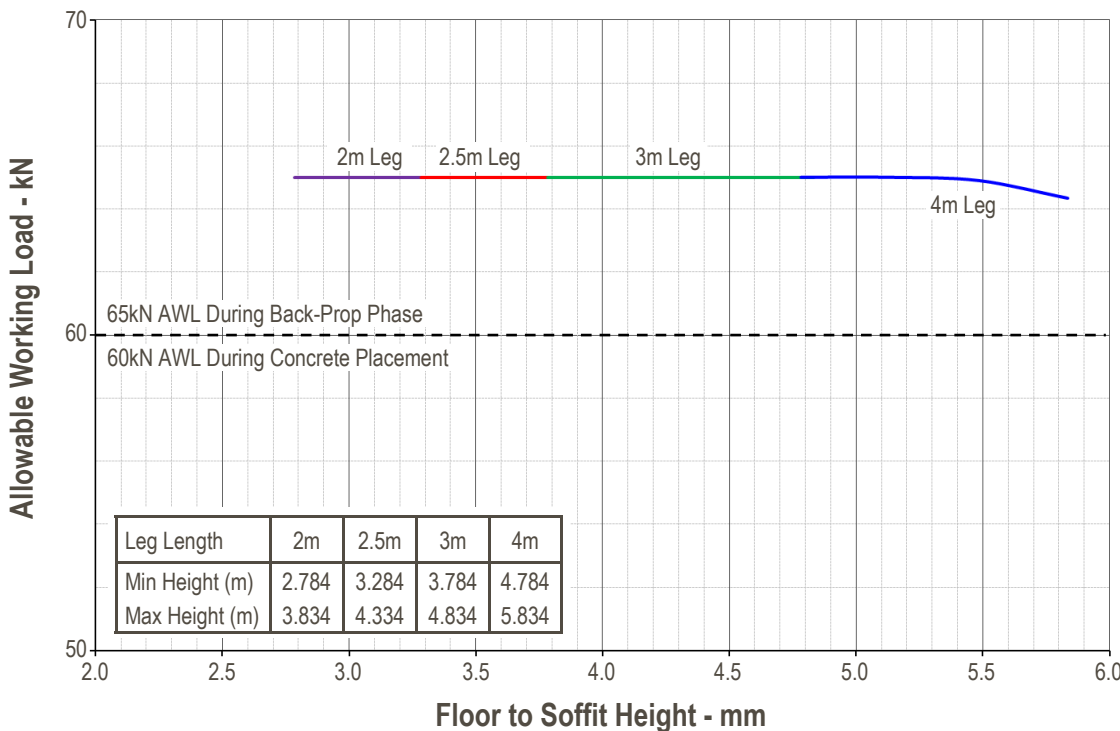
No Frames



Allowable Working Load in Alshor Plus Tower Legs with Airodek Drophead Plus Adapter. Base Fixed Against Rotation

Chart C2

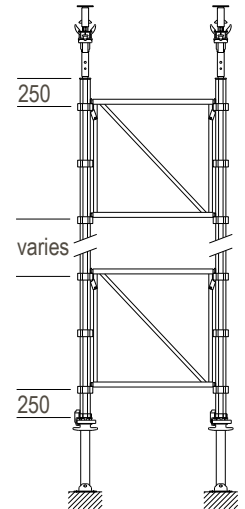
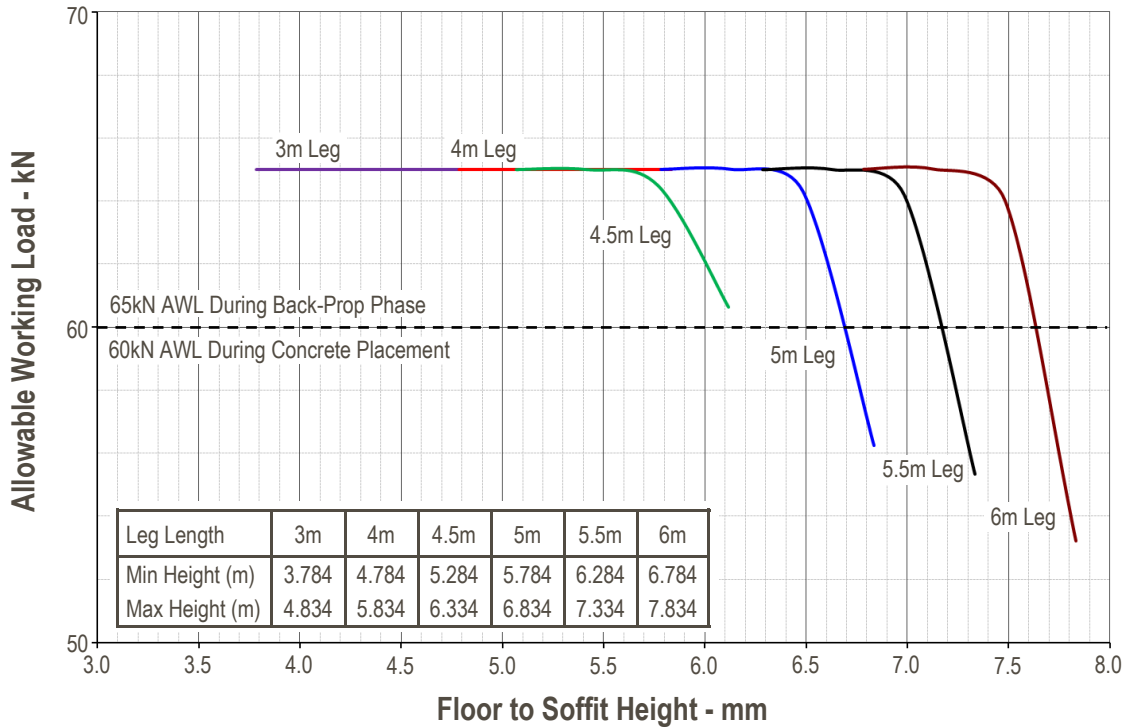
1 Frame



Allowable Working Load in Alshor Plus Tower Legs with Airotek Drophead Plus Adapter. Base Fixed Against Rotation

Chart C3

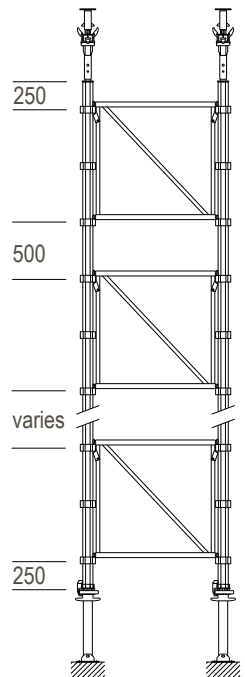
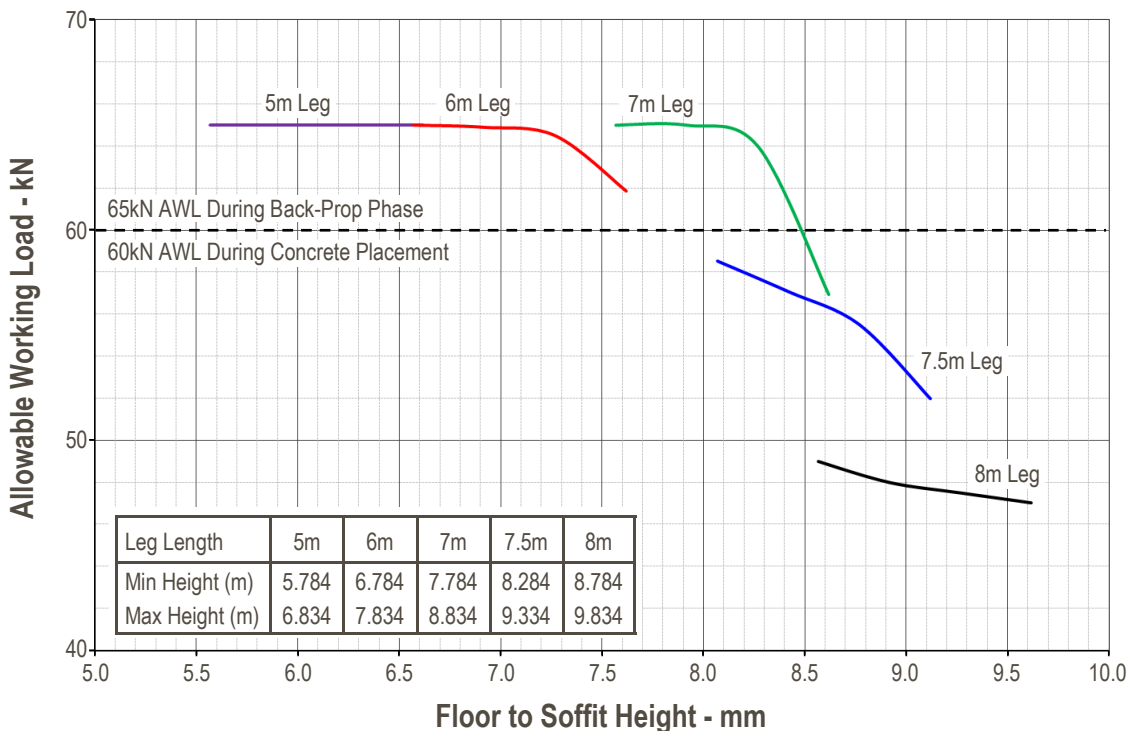
2 Frames



Allowable Working Load in Alshor Plus Tower Legs with Airotek Drophead Plus Adapter. Base Fixed Against Rotation

Chart C4

3 Frames



Allowable Working Load in Alshor Plus Tower Legs with Airotek Drophead Plus Adapter. Base Fixed Against Rotation

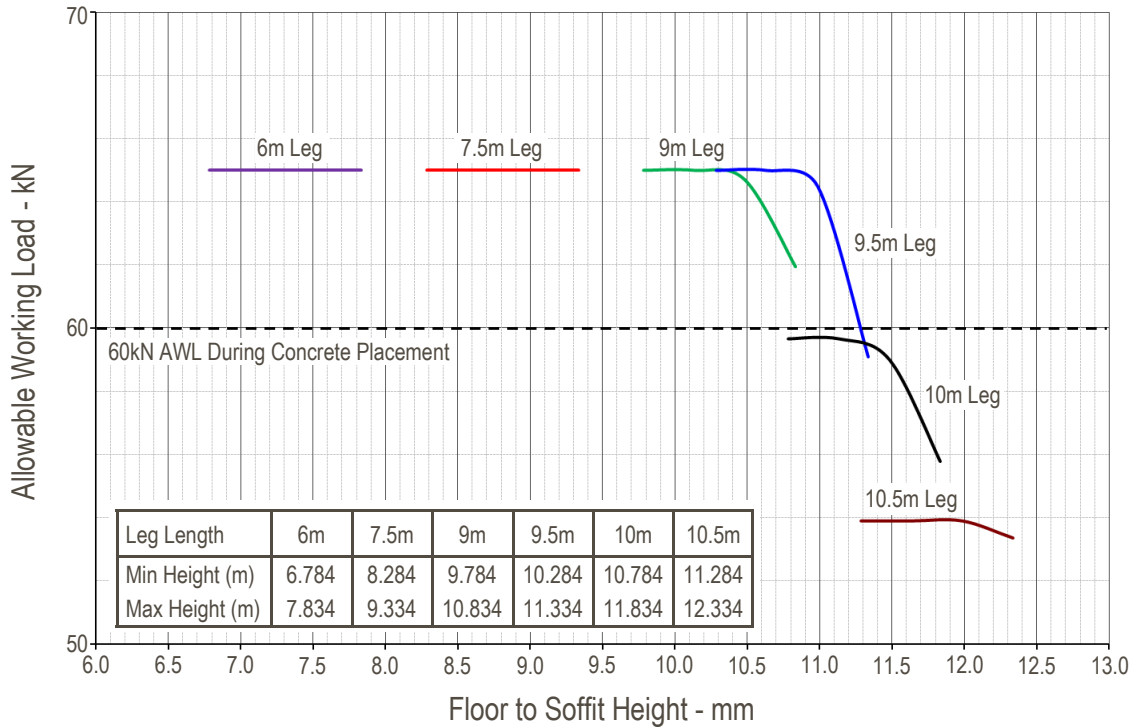
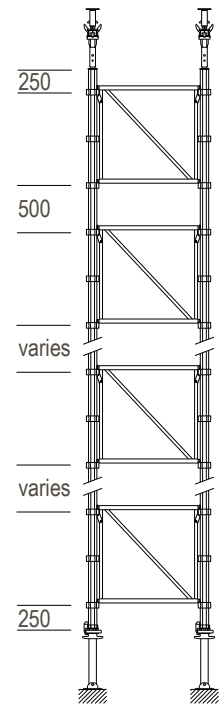


Chart C5

4 Frames



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