



## Support Services

Equipment hire is just one of the ways in which RMD Australia adds value. Apart from helping customers to eliminate high capital expenditure, and the future need to maintain and store redundant equipment, RMD Australia's hire services include a range of support services that assist our customers with on-site equipment erection. These include full technical assessment of project needs, on-going consultation during design development, assistance with value engineering, detailed commercial and engineering proposals, engineered erection drawings, method statements and design calculations. All technical recommendations meet the Australian Standards for formwork and scaffolding.

## Product Range

**"Off The Shelf" Products** - RMD Australia is the name behind versatile - "off the shelf" products that have become a benchmark of excellence and high productivity throughout the construction industry. Products like the new Alshor Plus latest generation aluminium shoring system; Rapidshor, RMD's high-duty, adaptable shoring system; Megashor, a heavy duty propping system with an unrivalled 1000kN leg capacity; and Super Slim Soldiers which offer a very high strength-to-weight ratio for crane-handled formwork systems. The range of RMD formwork systems include the Rapid Ply panel system, the Minima modular panel system, the Reflex circular wall system and RMD's Airodek, high productivity soffit system. RMD Australia also has a comprehensive range of scaffolding products, including Rapidstage, which is an extremely versatile modular system that can be used for all types of access scaffolding requirements.

**Special Products** - To complement what is widely acknowledged as one of the most comprehensive standard product ranges in the world, RMD Australia also offers a diverse range of special products individually designed to meet specific project requirements.

Often the most economical solution is a combination of standard and special products.

Working together as a team to provide highly productive, cost-effective, safer solutions that more than meet your construction requirements, RMD Australia has the products, experience and capability you need.

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## Quality Assurance



RMD Australia is accredited to AS 3901/ISO 9001 Quality Systems, for design, development, production, installation and servicing.

Our company-wide commitment to quality and our aim to exceed our customers' expectations, helps us to sell and hire a consistently high standard of construction equipment and provide an exceptional level of service, which leads to higher customer satisfaction.

# airodek



Airodek panels on Rapidshor support.

## high productivity soffit system

Airodek, the new soffit formwork system from RMD Australia, is based on a single principle, simplicity. The smart simplicity of the design means it is elegant, lightweight and quick to erect and dismantle. Easy to handle, transport, maintain and store.

Airodek has been developed through extensive market research, along with over 50 years' leading experience in the formwork industry, world-wide. The result is a versatile system designed for maximum productivity in today's labour-oriented market. Airodek is simplicity in itself.

## features and benefits

Airodek is simply two basic elements - props and panels - designed for easy assembly, handling, transportation, stacking and maintenance.

The Airodek system of lightweight aluminium panels and adjustable props means 30% less weight and 40% fewer parts than conventional steel props and timber, and 25% less weight than other systems using primary beams and panels. All of which saves time, labour and all important costs

projects, Airodek offers a wide selection of propping heights depending on loading and the method of support.

A quick, safe and simple assembly process enables one man to erect up to 40m<sup>2</sup> in an hour, greatly reducing construction time and labour requirements.

## performance

Airodek is a simple, light, versatile soffit formwork system, suitable for a range of concrete slabs up to a depth of 450mm. Because there is usually a significant variation in height between levels in construction

## options

The Airodek system comprises three variants:

### Panels and Props:

The panels are supported by the crowns and props. The whole system is struck once the concrete has gained sufficient strength.

### Panels, Deck Beams, Dropheads and Shoring:

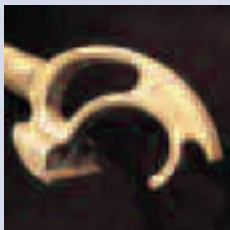
A quick strip system, where the panels and deck beams are removed during the early stages of curing, whilst the dropheads and shoring remain supporting the concrete.

### Skeletal System:

The deck beams sit in the drophead and the Airodek Soffit Beam spans between the deck beams supporting plywood. The deck beams and soffit beams can be struck and removed, leaving the plywood supported by the dropheads and shoring.



Airodek's unique telescopic strut is used for both erection and dismantling of panels



The specially designed claw prevents accidental dislodging of the telescopic strut



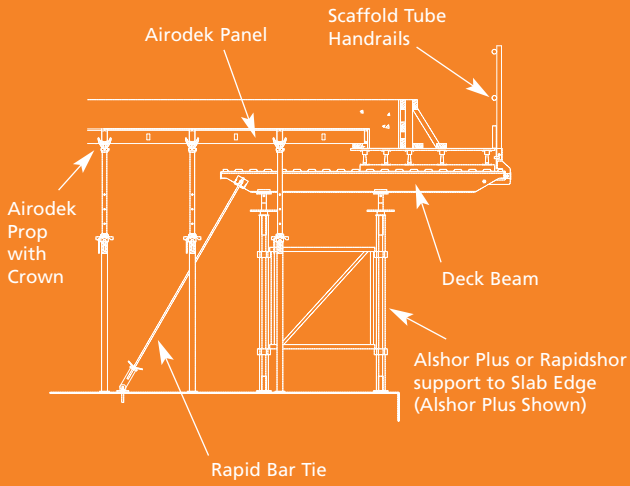
The Unique aluminium crown supporting Airodek panels

Airodek on props



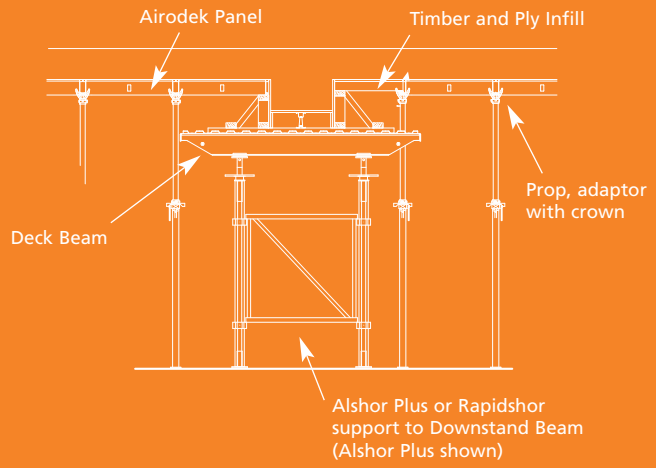
## Drop Edge Beam

The Edge Beams are supported by a system independent to the prop and panel system, providing a beam side edge formwork and walkway.



## Downstand Beam Support

Independent internal Downstand Beam support allows the end panels and make up to be supported off the beam side formwork. The Deck Beam supports the beam soffit and sides.



Assembly gates are used to provide stability and panel spacing

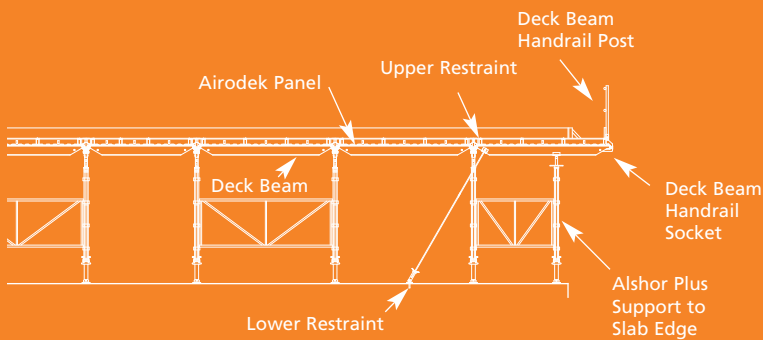
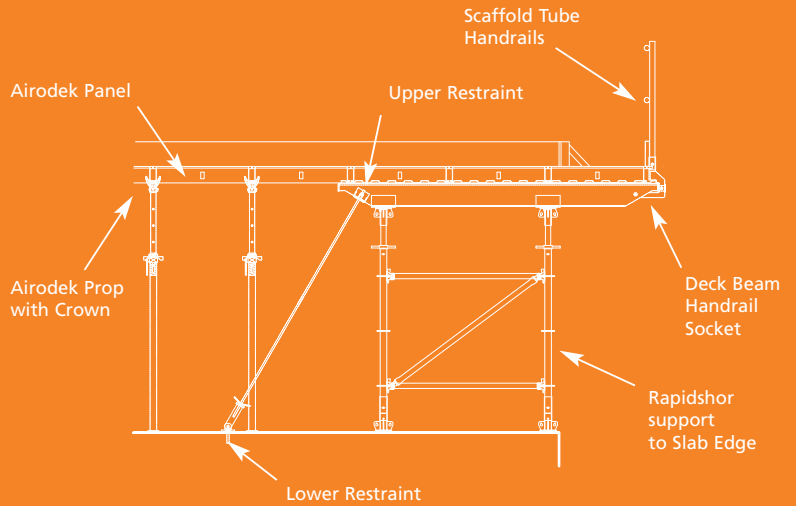


Airodek on Rapidshor support

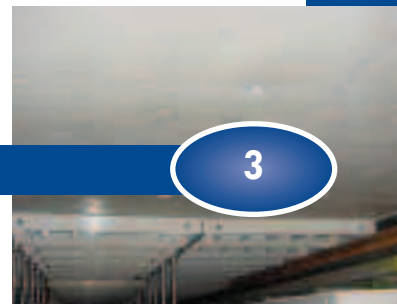


Unique aluminium crown supports up to 4 Airodek panels

## Slab Edge Detail



Airodek panels spanning onto a drop beam support





## Props

RMD No 2 props are appropriate for the majority of commercial structures.

Code	Description	Weight (Kg)
PRA12000	Prop No. 2 + Prop Adapter (ADX20025)	23.0



## Telescopic Strut

A minimum of two are required on each project. The prop head has a positive locking facility which will prevent the prop from being kicked away accidentally. The lock must only be used during assembly and not during dismantling.

Code	Description	Weight (Kg)
ADA10015	Telescopic Strut	4.5

Adjustable range: 2300mm closed to 4000mm fully open.



## Prop Adaptor

Prop Adaptor is required for connecting the HD Crown to an RMD prop.

Code	Description	Weight (Kg)
ADX20025	Prop Adaptor	0.8



## Airodek Crown Assembly

Combination of HD Crown, Prop Adaptor and Omega Clip.

Code	Description	Weight (Kg)
ADA10010	Airodek Crown Assembly	2.1



## Restraints

Upper restraint locates via mushroom bolt on rear of cantilevered beam for overturning/side form load restraint. Lower restraint transfers loadings from the upper restraint into the slab.

Code	Description	Weight (Kg)
ADX20019	Upper Restraint	1.6
ADX20020	Lower Restraint	4.3

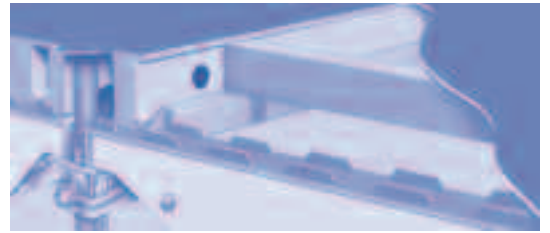


## Panels

An aluminium framework with 10mm thick phenolic faced hardwood plywood inlaid into the frame.

Code	Description	Weight (Kg)
ADX18090	Panel 1800mm x 900mm	24.9
ADX18060	Panel 1800mm x 600mm	18.4
ADX18030	Panel 1800mm x 300mm	12.7
ADX09090	Panel 900mm x 900mm	13.2
ADX09060	Panel 900mm x 600mm	9.9
ADX09030	Panel 900mm x 300mm	6.7

May be used for slabs up to 700mm thick, dependent on the size of the panel employed.



## Infill Beams

These Beams are used where a Panel will not fit, eg, where a column interrupts a row of Panels. The Infill Beams locate in either the Crown or the Drop Beam.

Code	Description	Weight (Kg)
ADA11800	Steel Infill Beams 1800mm	11.1
ADA10900	Steel Infill Beams 900mm	5.3



## Deck Beams

Airodek Deck Beams locate onto Crowns/Dropheads and provide support and alignment to the Panels.

Code	Description	Weight (Kg)
ADX33000	Deck Beam 3000mm	23.5
ADX32400	Deck Beam 2400mm	18.5
ADX31800	Deck Beam 1800mm	13.5



Client:  
VSF Formwork

Project:  
Meriton Apartments,  
Sydney, NSW



### HD Crown and Omega Clip

Code	Description	Weight (Kg)
ADX20015	HD Crown	1.2
RSX10009	Rapidshor Omega Clip	0.1



### Edge Support Plate

This unit will clip into a Crown adjacent to a wall. A timber beam can be placed on top with a strip of plywood to complete the infill area between the Panel and the wall.

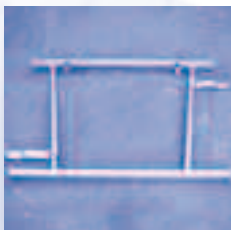
Code	Description	Weight (Kg)
ADX20011	Edge Support Plate	0.49



### Stepped Pin

Allows the quick release of the applied load in the props by lowering the Panel and inner section of the prop by 4mm, enabling easy and damage-free removal of Airodek Panels.

Code	Description	Weight (Kg)
ADX20012	Prop Stepped Pin	0.8



### Spacing Gate

The Gate Frames are attached to the lower section of the props to give the correct spacing. Only light use of a hammer is necessary to lock the frames in position.

Code	Description	Weight (Kg)
ADX20007	Spacing Gate 1800mm	11.0
ADX20006	Spacing Gate 900mm	9.0

Note: Do not use as a support for access platforms etc.



### Handrail Components

Code	Description	Weight (Kg)
ADX20018	HD Handrail Socket	5.9
ADX20016	Deck Beam HD Handrail Socket	5.0
RSX41500	Rapidshor Standard OE 1500mm	7.9
RSX41000	Rapidshor Standard OE 1000mm	5.3

ADX20018



### Aishor Plus Drophead Adaptor

Transition unit ensuring adaptability of Drophead with Aishor Plus shoring system. Secured to Drophead using Omega Clip.

Code	Description	Weight (Kg)
ADX30002	Airodek Aishor Plus Drophead Adaptor	2.5



### Spacing Gate Leg

The Spacing Gate Leg can be attached to the Spacing Gate from either side to aid in the support of the props. They are used when the first row of props are being erected, and then every 5.4m.

Code	Description	Weight (Kg)
ADX20008	Spacing Gate Leg	2.5

Note: Spacing Gate Legs cannot be removed without the Spacing Gate being loosened on the props.

### Drophead

With 70mm stripping facility for use on slabs which require backpropping, or early removal of the Panels and Beams.

Code	Description	Weight (Kg)
ADX30001	Drophead	7.4
ADX30003	Drophead Panel 1800mm	13.2
ADX30004	Drophead Panel 900mm	7.3
RSX10009	Rapidshor Omega Clip	0.1

# aluminium beams

## *strong but light to handle*

Aluminium beams combine the benefits of strength, lightness and ease of handling with consistency, versatility and exceptional durability. With an extensive range of accessories, the beams form a complete system that can be used for virtually unlimited configurations and applications.

RMD's portfolio of aluminium beams include:

- **Albeam 225mm** deep heavy-duty primary beam for slab support, with a very high bending and concentrated load capacity.
- **Alform 150mm** deep beam designed for wall formwork and slab support applications.

## applications

### wall formwork

Alform Beams can be used in conjunction with our market-leading Super Slim Soldiers to assemble large wall formwork panels. Stop ends and other complex configurations are also easily constructed. Aluminium construction ensures consistent alignment, accuracy and structural integrity, reducing wastage, assembly time and labour costs.

### soffit support

A specially-designed clamp allows primary and secondary beams to be fixed together at right-angles in soffit support applications. The high bending and shear resistance of the 150mm Alform Beam – twice that of a 200mm timber beam – allows longer spans, supporting greater loads, to be built with less equipment, and because it's 60% lighter than its timber equivalent, it's easier and quicker to handle, saving time and costs.

## features and benefits

- **Strength-to-weight ratio.** Aluminium beams are far lighter and easier to handle than timber, their unique profiles reduce damage, with the bevelled edges enabling plywood sheeting to be stripped quickly and easily. They also offer greatly increased bending and shear resistance, allowing more weight to be supported across greater spans with less equipment, saving time and costs.
- **Uniformity.** Aluminium beams are always straight, simplifying and speeding up assembly. They have a consistent cross-section, eliminating time and cost implications of selecting and hand-finishing timber.
- **Longevity and durability.** Aluminium beams can be re-used a number of times. When they finally reach the end of their useful life, their residual value is still around 25% of their original cost.

### slab formwork

Client:  
Bryant Construction

Project:  
Worcester Shopping  
Centre, UK

### circular formwork

Client:  
Wideform Construction  
Pty Ltd.

Project:  
Edgeworth Sewage  
Treatment Works,  
NSW

### Alform Internal Corner

Code	Description	Mass (Kg)
AFX20007	Alform Internal Corner	1.25
AFX20002	Alignment Angle	2.05



### Universal Clip

Code	Description	Mass (Kg)
AFX20015	Universal Clip	0.14
AFX20022	Unifix Bolt	0.04



### Alform Internal Splice Unit

Code	Description	Mass (Kg)
AFX20008	Internal Splice	2.20
AFX20019	Internal Splice Clamp Plate	0.88

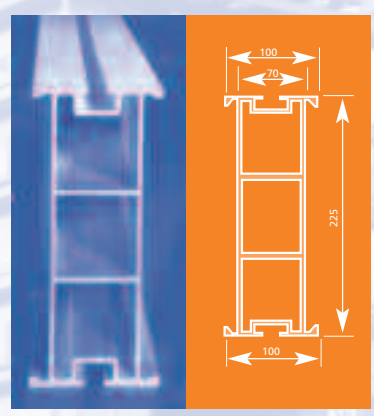


### Angle Bracket

Code	Description	Mass (Kg)
AFA10005	Angle Bracket	1.00
AFA10015	Serrated Double Nut	0.10
AFA10010	Alform Clamp M/Ply	0.19

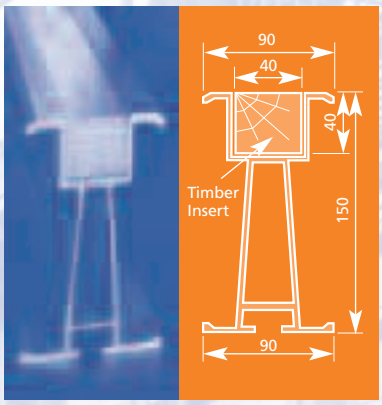
### Albeam

Code	Description	Mass (Kg)
ABX11800	Albeam 1800mm	14.76
ABX12400	Albeam 2400mm	19.68
ABX13000	Albeam 3000mm	24.6
ABX13600	Albeam 3600mm	29.52
ABX14200	Albeam 4200mm	34.44
ABX14800	Albeam 4800mm	39.36
ABX15400	Albeam 5400mm	44.28



### Alform Beam

Code	Description	Mass (Kg)
AFA10900	Alform 900mm	5.06
AFX11000	Alform 1000mm	5.11
AFX11200	Alform 1200mm	6.74
AFX11500	Alform 1500mm	7.66
AFX11800	Alform 1800mm	10.12
AFX12100	Alform 2100mm	11.80
AFX12400	Alform 2400mm	13.49
AFX12700	Alform 2700mm	15.17
AFX13000	Alform 3000mm	15.33
AFX13300	Alform 3300mm	18.55
AFX13600	Alform 3600mm	20.23
AFA13900	Alform 3900mm	21.92
AFX14200	Alform 4200mm	23.60
AFX14500	Alform 4500mm	25.30
AFX14800	Alform 4800mm	26.98
AFA15100	Alform 5100mm	28.66
AFX15400	Alform 5400mm	30.35
AFA15700	Alform 5700mm	32.03
AFA15800	Alform 5800mm	29.64



AFX16000	Alform 6000mm	33.70
AFA16300	Alform 6300mm	35.41
AFX16600	Alform 6600mm	37.09
AFA16900	Alform 6900mm	38.78
AFX17200	Alform 7200mm	40.45
AFX17500	Alform 7500mm	42.15

Beam Properties	Albeam	Alform
Moment of resistance xx axis	= 25 kNm	9.9 kNm
Maximum reaction	= 80 kN	38 kN
Cross sectional area	= 3030mm <sup>2</sup>	1613mm <sup>2</sup>
Shear rigidity xx axis (GA)	= 35110 kN	18489 kN
Modulus of elasticity (E)	= 69000 N/mm <sup>2</sup>	69000 N/mm <sup>2</sup>
Flexural rigidity xx axis (EI)	= 1468 kNm <sup>2</sup>	388 kNm <sup>2</sup>
Weight of beam	= 8.2 kg/m	5.1 kg/m

### climbing formwork

**Client:**  
Kumagai Gumi Co Ltd

**Project:**  
National Provident Fund Building, Papua New Guinea

