

Pioneer of work zone safety Solutions

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TEMPORARY ROOFING SYSTEM

Providing quality temporary roofing products at a competitive price.

APAC Temporary roofing is a modular all-aluminium temporary roofing and weather-proofing system using the slide sheet or “keder” principle which allows the roof covering to be installed in complete safety from underneath. APAC can be built safer and faster than many existing roofing systems. Using an exclusive and revolutionary button system to retain the sheet tracking, APAC uses custom-designed aluminium beams to maximise performance.

The APAC Roofing System is designed on the basis of a series of simply supported beams. It is the contractor’s responsibility to provide a suitable support structure. It is also the contractor’s responsibility to meet the requirements of the Health & Safety at Work Act, statutory regulations and relevant codes of practice.

Delivery and Storage

It is the responsibility of the contractor to unload the components and check for any damage. Before assembly, ensure all items are undamaged and fit for purpose. Any damaged items should be segregated and replacements requested. Components may be stored in the open, but the area should be secure and care taken to keep them clean.

Safety Considerations

Adopt a safe system of work at all times. Plan the safe system prior to commencement of the job, ensuring that it is specific to the particular application and method of assembly. Ensure that all erecting personnel are adequately trained, erection training and/or erection supervision is available from if required. Adopt suitable protective measures to ensure against falls from height.

Safety Guidance

- NASC SG4** Preventing falls in scaffolding operations
- NASC SG6** Manual handling in the scaffolding industry
- NASC SG9** Use, inspection & maintenance of lifting equipment
- NASC SG19** A guide to formulating a rescue plan
- NASC SG35** Handover of scaffold structures

COMPONENTS

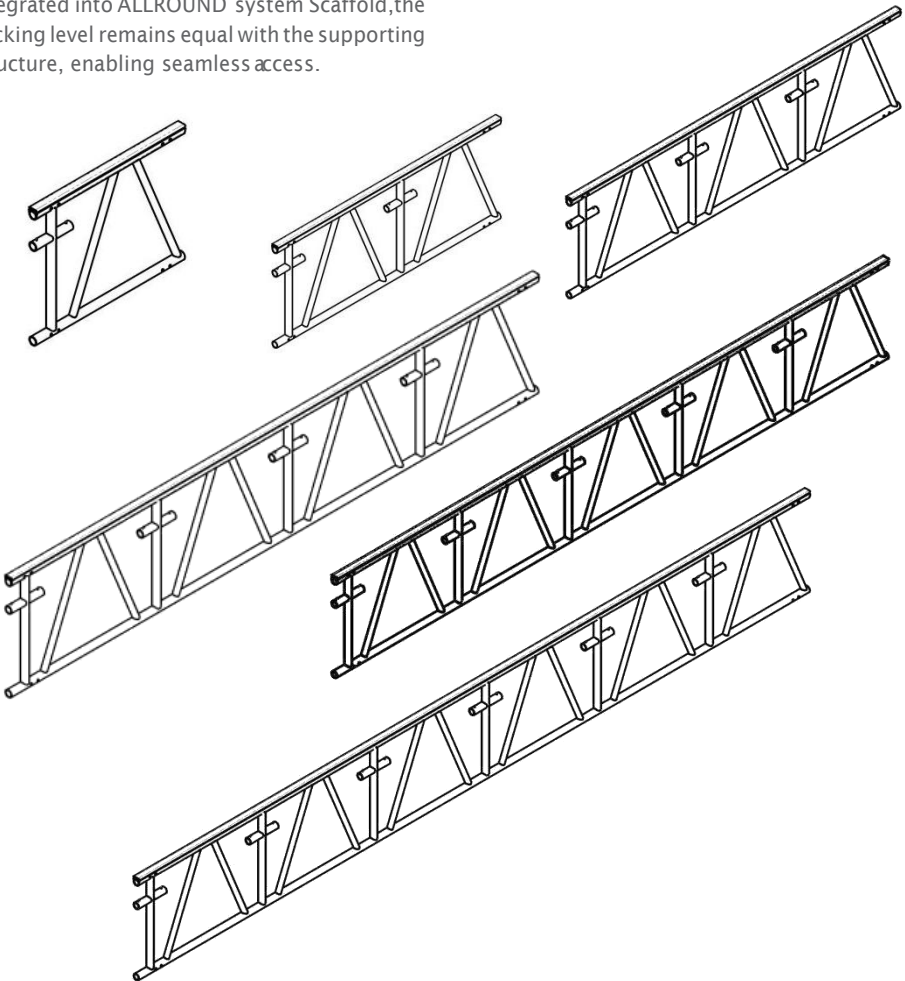
MAIN COMPONENTS

1 Aluminium Unit Beams w/ Track

Manufactured from EN AW 6082 T6 Alloy, these form the main structural member of the APAC roof. These beams have consistent nodal spacing, so that neighbouring spans can be made up from a differing combination of lengths. The verticals are always in the same location when viewed from the side, this allows the horizontal and plan bracing to be perfectly consistent.

The 780mm depth increases capacity and when integrated into ALLROUND system Scaffold, the decking level remains equal with the supporting structure, enabling seamless access.

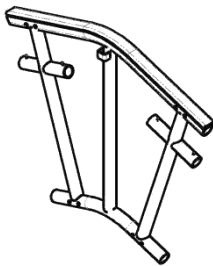
Code	Length (m)	Weight (kg)
201010	1.00	7.00
201020	2.00	12.53
201030	3.00	18.10
201040	4.00	23.60
201050	5.00	29.12
201060	6.00	34.66



2 Ridge Beams w/Track

Used to connect two elevations of ALTRIX Beams at the apex of the roof.

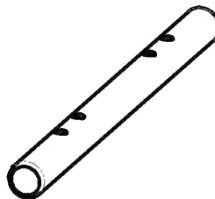
Code	Degrees	Weight (kg)
202010	18.00	10.40
202020	36.00	13.97



3 Beam Spigot

A fourhole spigot used, in conjunction with 12mm quick release pins (or M12 x 60 Bolts and nuts), to connect differing lengths of Unit Beams, Ridge Beams and Eaves Beams to one another. Two spigots are required per beam joint.

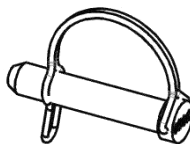
Code	Weight (kg)
203010	1.5



4 Quick Release Pins

12mm quick release pins are used in conjunction with the six hole Beam Spigot, to connect differing lengths of ALTRIX Beams, Ridge beams and Eaves Beams to one another. Six pins are required per spigot, twelve per joint.

Code	Weight (kg)
204010	0.07

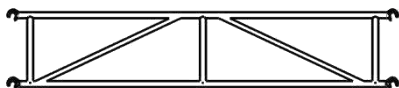
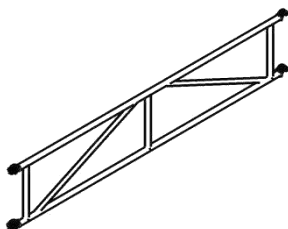


5 Double Horizontal Frames

Used to connect two adjacent beam lines (trusses) together, attached to the vertical posts of the beams using a special claw casting. The frequency of Brace Frame bays is dependent on a number of factors:

- Span required
- Erection by hand or crane
- Location of roof
- Imposed loads

Code	Length (m)	Weight (kg)
205010	1.50	6.50
205020	2.00	7.80
205030	2.50	9.20
205040	3.00	10.50

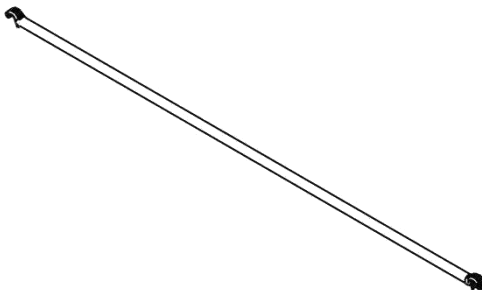


6 Horizontal Brace

Used to connect two adjacent beam lines (trusses) together, attached to the top and bottom chords of the beams. Ends include a special claw casting with track button. The frequency of Horizontal Brace is dependent on a number of factors:

- Fixed to top or bottom chord
- Span required
- Erection by hand or crane
- Location of roof
- Imposed loads

Code	Overall Length (m)	Weight (kg)
206010	1.50	2.64
206020	2.00	3.15
206030	2.50	3.66
206040	3.00	4.17



7 Diagonal Brace

Attached diagonally between the top of the vertical posts of the Unit beams at the position of the Brace Frames. Ends include a special claw casting, facing opposing directions. The frequency of plan brace is dependent on a number of factors:

- Span required
- Erection by hand or crane
- Location of roof
- Imposed loads

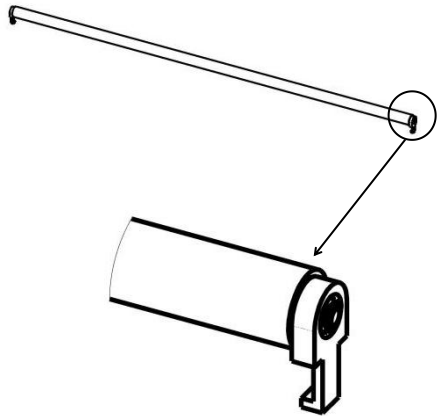
Code	Bay Size (m)	Weight (kg)
207010	1.50 x 1.00	2.81
207020	2.00 x 1.00	3.25
207030	1.50 x 2.00	3.51
207040	2.50 x 1.00	3.71
207050	2.00 x 2.00	3.84
207060	3.00 x 1.00	4.18
207070	2.50 x 2.00	4.22
207080	3.00 x 2.00	4.63



8 Roller Brace

Links adjacent beam lines (trusses) at the ridge and at eaves level. End hooks locate corresponding sockets on Ridge / Eaves Beam; Track Compressor; or Intermediate Roller Brace Coupler. The roller action aids sheet installation and tensioning.

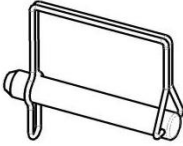
Code	Length (m)	Weight (kg)
208010	1.50	6.10
208020	2.00	8.80
208030	2.50	11.40
208040	3.00	13.60



9 Quick Release Pins M12x70

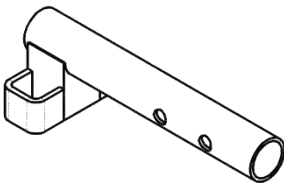
These special M12x70mm Quick Release Pins are used to fix the Spigots to the unit beam and the ridges.

Code	Weight (kg)
209010	0.1

**11 Eave Spigot**

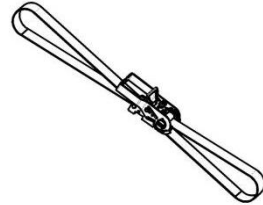
Positioned within the top chord of the ALTRIX Beam at the eaves and fixed in position with a Quick Release Pin, this component tensions the sheet tracks and has location sockets for the Roller Brace.

Code	Weight (kg)
201110	1.2

**10 Ratchet Straps w/out hook**

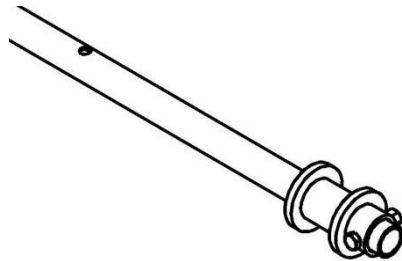
Used in conjunction with the Sheet Tension Bars, these 2.0m long ratchet straps secure and tension the roof sheeting to the supporting structure at the eaves. They have a safe working load of 1000kg and a total of eight are required per sheet, four at each eaves position.

Code	Weight (kg)
201001	0.52

**12 Sheet Pull Bar Assembly**

Inserted through the Sheet Tension Bar at one side of the sheet, the nylon wheels of the assembly are positioned on top of the Sheet Tracks at either side, guiding the sheet smoothly over the roof. This component is variable in size, only one is required per roof and is simply removed once sheet is installed.

Code	Weight (kg)
201210	10



13 Sheet Tension Tube

These slide through the pockets in the ends of the sheeting to enable tensioning and fixing.

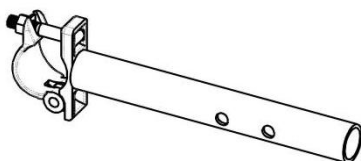
Code	Length (m)	Weight (kg)
201310	1.50	5.98
201320	2.00	8.16
201330	2.50	10.35
201340	3.00	12.53



14 Sheet End Coupler

The coupler is designed to help tension the sheet end to the sheet tensioning tube.

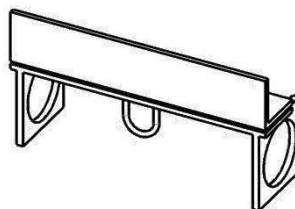
Code	Weight (kg)
201410	1.2



15 Sheet Pulling Clamp

This clamp aids the configuration This clamp aids the configuration when making any changes to your fabric sheeting application.

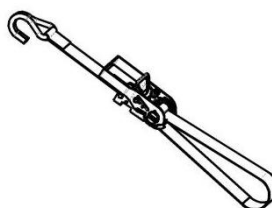
Code	Weight (kg)
201510	1.0



16 Ratchet Straps w/ hook

Used In conjunction with the Sheet Pulling Clamp, these 2.0m long ratchet straps secure and tension the roof sheeting to the supporting structure at the eaves. They have a safe working load of 1000kg and a total of eight are required per sheet, four at each eaves position.

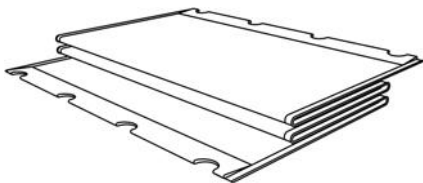
Code	Weight (kg)
149799	8.20



17 Roof Sheeting

610gsm flame retardant sheeting, with Keder beading to both the left and right hand edges, for location into the sheet tracks. Pockets are positioned at each end to receive the Sheet Tension Bars.

Exact lengths can be cut and additional pockets can be fitted upon request. Gable sheets and different grades of sheeting may also be available. For further details, please contact your local TRAD Hire & Sales depot, details of which can be found on the rear cover of this guide or visit www.tradhireandsales.co.uk



Code	Size (m)	Weight (kg)
201701	10.00 x 1.50	9.80
201702	15.00 x 1.50	14.60
201703	20.00 x 1.50	19.50
201704	25.00 x 1.50	24.40
201705	30.00 x 1.50	29.30
201706	35.00 x 1.50	34.10
201707	40.00 x 1.50	39.00
201708	45.00 x 1.50	43.90
201709	10.00 x 2.00	13.00
201710	15.00 x 2.00	19.50
201711	20.00 x 2.00	26.00
201712	25.00 x 2.00	32.50
201713	30.00 x 2.00	39.00
201714	35.00 x 2.00	45.50
201715	40.00 x 2.00	52.00
201716	45.00 x 2.00	58.50
201717	10.00 x 2.50	16.30
201718	15.00 x 2.50	24.40
201719	20.00 x 2.50	32.50
201720	25.00 x 2.50	40.60
201721	30.00 x 2.50	48.80
201722	35.00 x 2.50	56.90
201723	40.00 x 2.50	65.00
201724	45.00 x 2.50	68.53
201725	10.00 x 3.00	18.30
201726	15.00 x 3.00	27.45
201727	20.00 x 3.00	36.60
201728	25.00 x 3.00	45.75
201729	30.00 x 3.00	54.90
201730	35.00 x 3.00	64.05
201731	40.00 x 3.00	73.20
201732	45.00 x 3.00	82.35

COMPONENTS

ANCILLARY COMPONENTS

This section details components not covered by other categories, and completes the ALTRIX range of products.

1 18° Eaves Beam

Used as an alternative to the Track Compressor for sheet termination at the eaves.

Code	Weight (kg)
211010	6.52

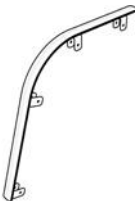


2 18° Eaves Sheet Track

Used in conjunction to the 18° Eaves Beam for sheet termination at the eaves. They provide the guide track and support for the sheeting at this position.

Attachment is via the incorporated fixing plates and the special Ridge Quick Release Pins, or M12 x 60mm bolts and hex nuts.

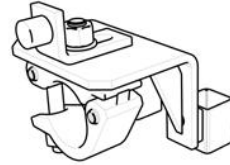
Code	Weight (kg)
212010	3.40



3 Intermediate Roller Brace Coupler

A special coupler for terminating the sheeting at intermediate positions. Fits to the top chord of the ALTRIX Beams, and has sockets to receive the Roller Brace.

Code	Weight (kg)
211030	1.45



4 Track Couplers (Short & Long)

Special couplers for attaching sheet tracking to 48.3mm diameter tube. Comes in two versions, the longer, second version is for attachment to system scaffolds.

Code	Weight (kg)
214010	0.65
214020	0.65



5 Rail Beam

A galvanised steel H-Beam with a tube runner welded to the top flange. Attached to the support scaffold with Boltless Girder Clamps, these components provide support for the rolling castor assembly. Maximum support centre is 3.07m but actual centres are job specific, to be determined by calculation and the supporting structure's capacities. Joints must be positioned at no more than 150mm from a support.

Code	Length (m)	Weight (kg)
215010	2.00	40.00
215020	3.00	60.00

**6 Boltless Girder Clamp**

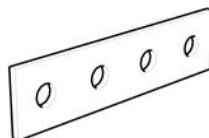
This fitting is used to connect the Trax Runway Beams to the supporting scaffold structure. Must be used in pairs.

Code	Weight (kg)
216010	1.10

**7 Rail Beam Splice Plate**

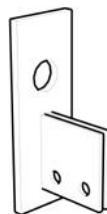
Two of these plates are used in conjunction with four M16 x 40mm bolts and hex nuts to join the Trax Runway Beams.

Code	Weight (kg)
217010	0.50

**8 Rail Beam End**

One of these closers is used at each end of a length of Trax Runway Beams, they prevent the castors from rolling off the track. They are attached with two M16 x 40mm hex bolts, washers and hex nuts.

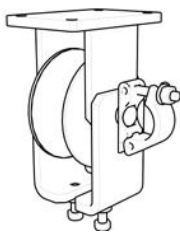
Code	Weight (kg)
218010	2.60



9 Rial Beam Wheel

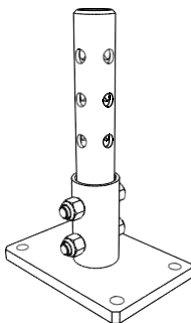
Sits on top of the Rial Beams to allow the roof structure to be rolled out. Depending on the preferred support method, the castor is attached to differing support components via four M12 x 40mm bolts and nuts. Castors are linked with scaffold tube and have locking nuts to prevent movement when roof is in final position.

Code	Weight (kg)
219010	15.00

**10 Wheel Tube Stem**

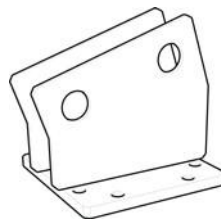
Attached to the castor, via four M12 x 40mm bolts and hex nuts. Used where tube and fittings are utilised to support the ALTRIX Beams.

Code	Weight (kg)
211010	3.02

**11 18° Castor Top Plate**

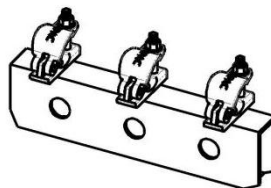
This component is attached to the castor via four M12 x 40mm bolts and hex nuts. Provides connection to the 0.7m Beam Bearer with 30mm Locking Pins and 30mm R Clips.

Code	Weight (kg)
211110	5.20

**12 Beam Support Bracket**

This product comes complete with four half couplers to connect to the bottom chord of the ALTRIX Beam. Connect to the 18° Castor Top Plate, or the Beam Support Unit with 30mm x 90mm Locking Pins and 30mm R Clips.

Code	Weight (kg)
211210	6.50



13 U-Head for PLETTAC METRIX Open Ended Standards

Used when supporting an ALTRIX roof directly from PLETTAC METRIX Open Ended Standards. Two spigots are bolted inside the top of a pair of standards, using M12 x 60mm bolts and hex nuts. The U-Head is connected to the Beam Support Unit with the 30mm x 90mm Locking Pin and 30mm R Clip.

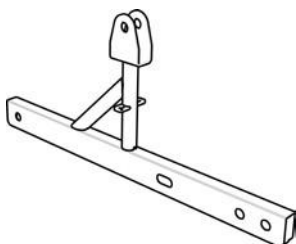
Code	Weight (kg)
211310	2.10



14 Beam Support Unit

This component is attached to a pair of the U-Heads for PLETTAC METRIX Open Ended Standards, with 30mm Locking pins and 30mm RClips. The unit spans from inside to outside of the scaffold. A 0.7m Beam Bearer is then attached to the top, again using the 30mm x 90mm Locking pins and R Clip. Each successive Beam Support Unit is connected with a PLETTAC METRIX Ledger of the appropriate size.

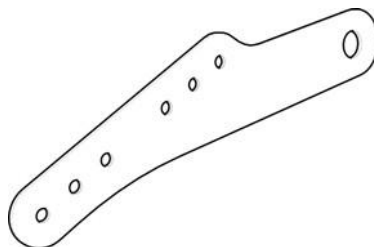
Code	Weight (kg)
211410	17.20



15 Tension Tube Connection Plate

These provide the starting point of the Tension Tube Assembly. A pair of these are fixed to the bottom chord beam at the joints with M12 x 90mm bolts and hex nuts. These are connected to the Tension Tube End Piece with a 30mm x 90mm Locking Pin and R Clip.

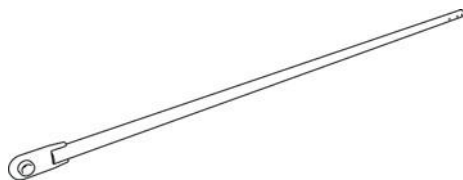
Code	Weight (kg)
211510	1.79



16 Tension Tube End Piece

Connected to a pair of Tension Tube Connection Plates with a 30mm x 90mm Locking Pin and R Clip. Connection is then made to the required size of Tension Tube using ALTRIX Beam Spigots and M12 x 60mm bolts and hex nuts.

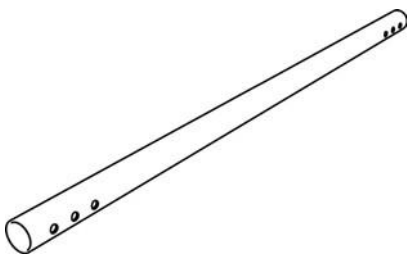
Code	Weight (kg)
211610	9.80



17 Tension Tubes

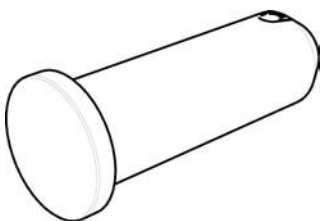
These 48.3mm diameter tubes are cut to an exact size and are joined together in the required configuration and at either end to the Tension Tube End Pieces, using Beam Spigots and M12 x 60mm bolts and hex nuts or M12 x 60mm Quick Release Pins.

Code	Type	Weight (kg)
211710	1.90	7.11
211720	2.85	10.66
211730	5.71	21.32

**18 30mm x 90mm Locking Pin**

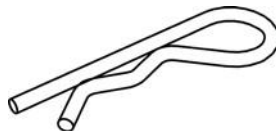
A heavy duty pin used to connect various components, made from Grade 8.8 steel. Used in conjunction with the 30mm R Clip.

Code	Weight (kg)
211810	0.55

**19 R Clip**

A pin used to secure the 30mm x 90mm Locking Pin in place.

Code	Weight (kg)
211910	0.02

**20 Hex Bolts and Nuts**

Different lengths of hex bolt are used to connect various components and secured with an appropriate sized hex nut. M12 size nuts are lock nuts. All made from Grade 8.8 steel.

Hex Bolts

Code	Length (m)	Weight (kg)
212010	M16 x 40mm	0.09
212012	M12 x 40mm	0.05
212014	M12 x 60mm	0.06
212016	M12 x 90mm	0.09

Hex Nuts

Code	Type	Weight (kg)
212011	M16	0.04
212013	M12	0.02

