

16/01467/AMC

Mr J McGrath
McGrath Engineering
Flat 2
Websters Cottage
5 Bridge Street
Kendal
LA9 7DD

Monday, 27 June 2016

Scottish Borders Council
Town And Country
Planning (Scotland) Act
1987

APPROVED

subject to the
requirements of the
associated Decision
Notice

Dear John

May I firstly take this opportunity to thank you for your enquiry and interest in our products.

I now have the pleasure of providing you with a full quotation to supply a bespoke steel building designed exactly to your own dimensions and specification.

At Cyclone Steel Buildings we pride ourselves in being highly competitive without any loss of quality or service to our customers. Our business has achieved **ISO 9001:2008 quality assurance standards** ensuring you that when dealing with us you will receive the highest quality advice, service and products. We are the **FIRST** cold rolled steel building supplier in the UK to achieve **CE accreditation** to EN1090 for Design Protocol and Factory Production Control Procedures.

I genuinely hope that this quote meets with your approval, however please contact me should you wish to change or clarify anything. In order for me to process your order I require completed 'Customer Order Confirmation' and 'Delivery Information' forms.

Assuring you of my best attention at all times.

Yours Sincerely

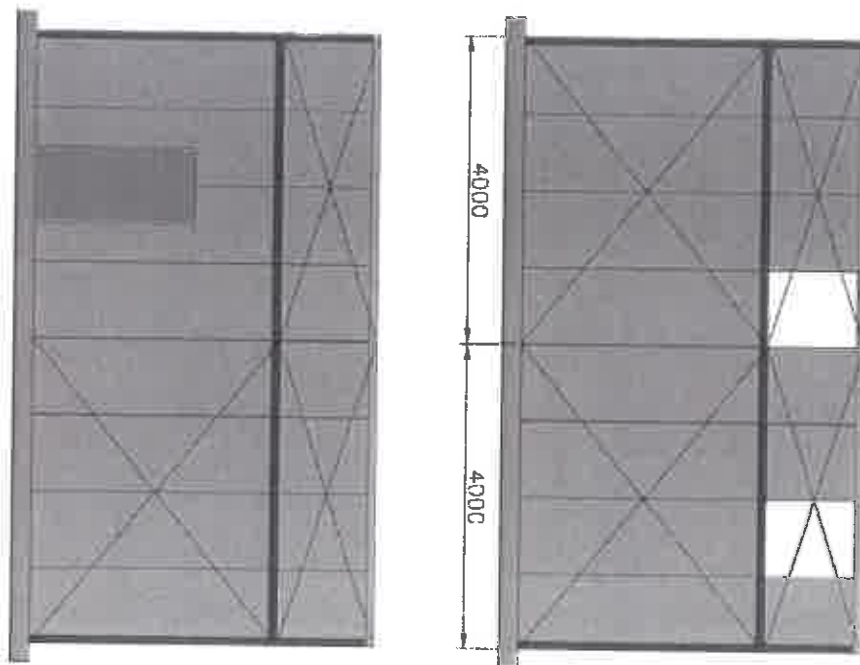
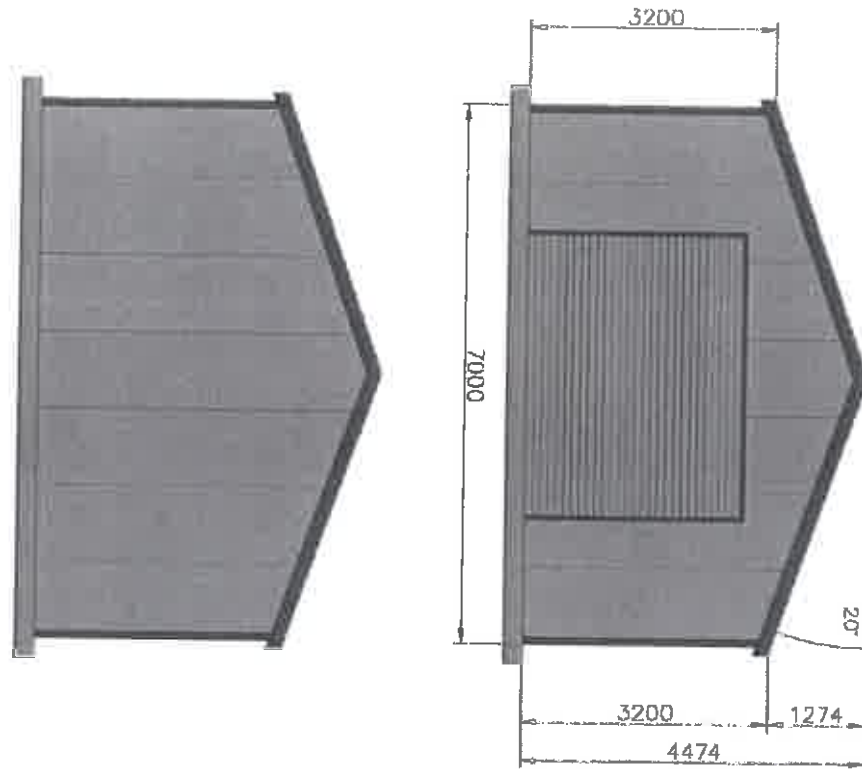
Peter Murray

Peter Murray
Operations Manager

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Representational Drawings & Illustrations



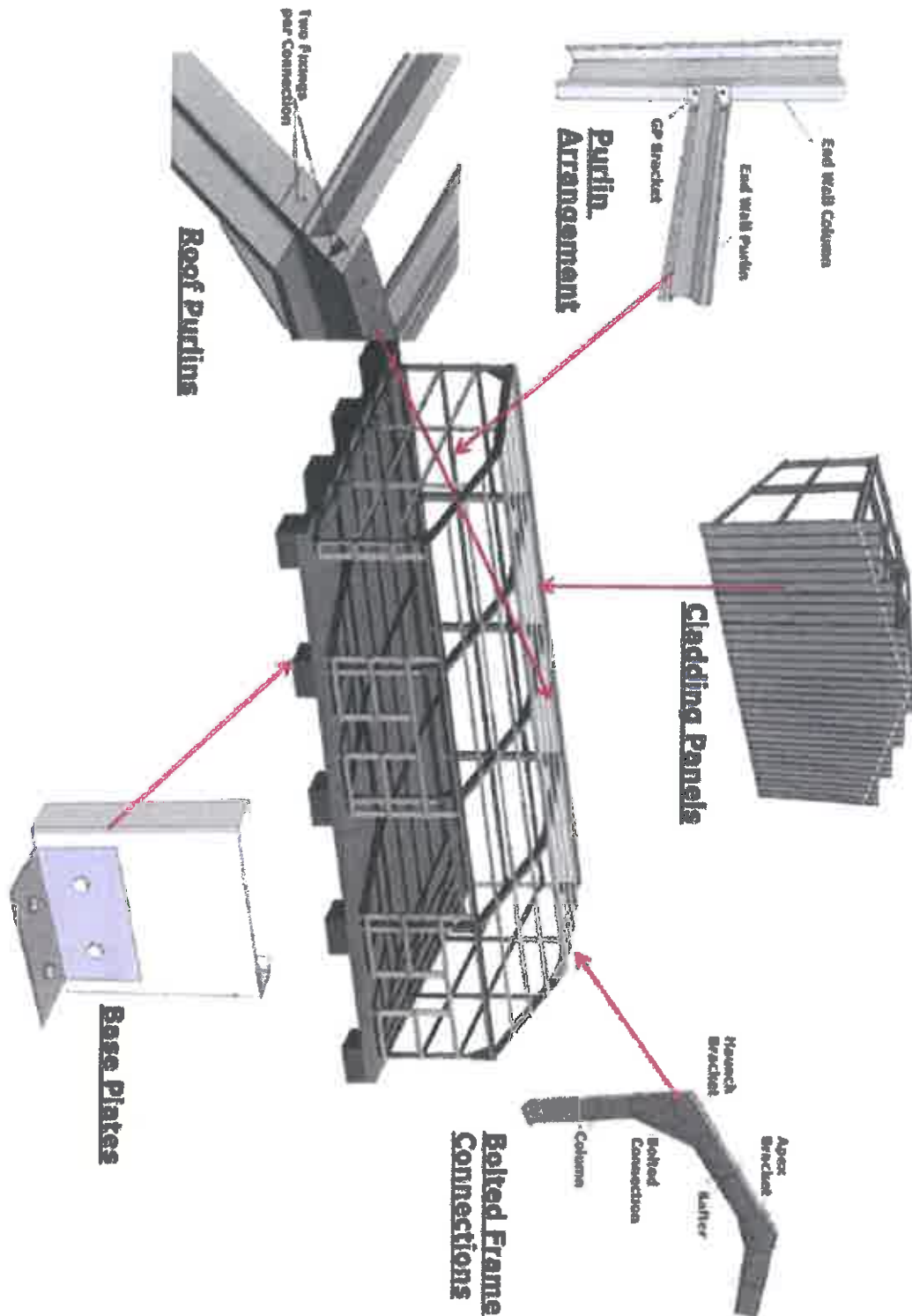
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CYCLONE

STEEL buildings

Cyclone Steel Buildings – Methodology



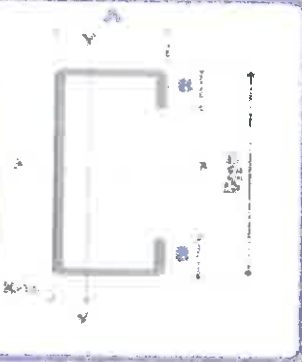
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Cold Rolled 'CEE' Sections

Cee profile dimensions		
Section Depth	Eccs	
	A	B
140, 170	62	13
200	70	15
240	74	17
300	95	19

Dimensions in mm



This type of steel is both high tensile and very durable. This means the combination of cold-rolled steel and portal frame method allows relatively small steel sections to span long distances. This **reduces the cost** of materials and due to the reduction in weight lifting equipment is generally not required, resulting in shorter construction times, reduced erection costs and higher quality

Cold rolled steel purlins' profile can be stacked into very compact loads. This allows a large building to be transported in a relatively compact package, significantly reducing transportation costs. Cold Rolled Steel Sections are pre-cut to sizes with fixing points predetermined by our steel building design, effectively providing your steel building in kit form.

Our buildings are fully galvanized as standard ensuring durability without extra costs. The end result is a superior steel building, engineered to British Standards and designed by state of the art software which allows our customers flexibility to have a building to suit specific requirements.

Single Skin Wall and Roof Panels

The single skin wall systems consist of coated steel sheets rolled to five different profiles and offers rapid coverage and swift completion of a waterproof building envelope to give a high-performance building. Standard external weather-sheets are available in 0.5 and 0.7mm thicknesses. The roof sheets are also available with "Dripstop" anti-condensation membrane on reverse. The system includes a comprehensive range of fixings, sealants, guttering, flashings and rooflights.



Gutters and downpipes are available in a variety of materials in matching or contrasting finishes. All our rooflights are designed to meet your project requirements for light transmission, durability, non-fragility rating, fire resistance and thermal performance.

Profiles have a predicted service life of 40 years and are manufactured in a process **certified to ISO 9001:2008**. The steel is hot-dip galvanized to BS EN 10346:2009 in a range of 33 different colours. Please see our Colour selector brochure or website for more details.

The box profile single skin sheet is economic sheeting in a robust profile that offers high strength and we can manufacture to very long lengths.

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Composite / Insulated Panels

AS35 insulated panels consist of a core of polyisocyanurate (PIR) insulation sandwiched between a heavily profiled external weather sheet and an internal shallow profiled liner. The PIR insulation bonds to the steel sheets during the manufacturing process, together the insulation and steel form strong, rigid panels with good thermal performance.

Table 07: U-values of AS35 panels

Panel thickness	U-value* (W/m ² K)
40	0.50
60	0.35
70	0.30
80	0.26
90	0.23
105	0.20
115	0.18
120	0.17
137	0.15

PIR insulation is used in the AS35 panels because it has a low thermal conductivity: for a given U-value panels with PIR cores will be thinner than those with mineral wool or EPS cores. PIR can withstand higher temperatures than PUR and will limit the spread of flame.

AS35 panels have a cover width of 1m and are available in thicknesses of 40, 60, 80 and 100mm. The standard external weather sheet is 0.5mm thick and the internal liner 0.4mm thick. The steel is hot-dip galvanised to BS EN 10327:2004 then finished with one of a number of high-quality coatings.



Table 08: Fire resistance results to LPS 1181:2005

LPCB ref. no	Panel	Thickness (mm)	Fire resistance (minutes) integrity (BS 476-22:1987)	Fire resistance (minutes) insulation (BS 476-22:1987)	Grade	Core
635a/04	AS35/1000 Roof panels	40, 60, 70, 80, 90, 105, 115 & 120	N/A	N/A	EXT-B	HCFC-free PIR
635a/04	AS35/1000 Wall panels	40, 60, 70, 80, 90, 105, 115 & 120	N/A	N/A	EXT-B	HCFC-free PIR
635a/05	AS35/1000 Firefighter Wall panels	60, 70, 80, 90, 105, 115, & 120	120	15	EXT-A15	HCFC-free PIR
635a/05	AS35/1000 Firefighter Plus Wall panels	105, 115 & 120	120	30	EXT-A30	HCFC-free PIR

Gutters and downpipes are available in a variety of materials in matching or contrasting finishes. Complete gutter systems and accessories can be manufactured to specification and the AS35 system includes a comprehensive range of matching rooflights, guttering, flashings and sealants.

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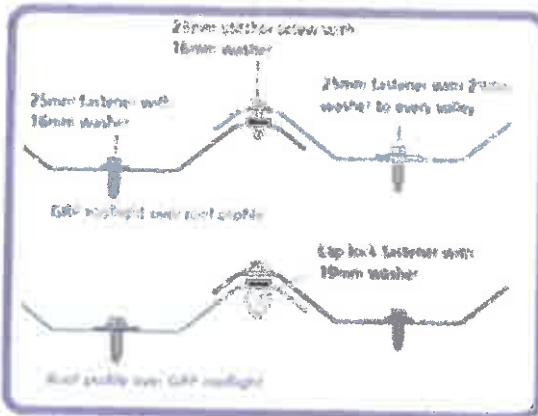


CYCLONE

STEEL buildings

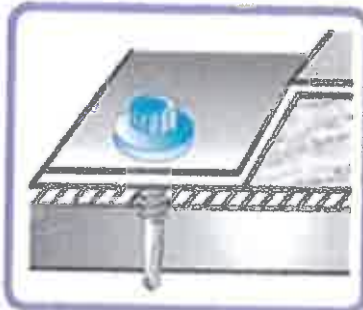
Brackets and Base Fixings

Our frames are fully bolted together: All brackets and base fixings are fully galvanised and predrilled, ready for assembly. This feature makes installation simpler, reduces the potential for human error and is consequently less labour-intensive to install. All framing components are bolted.



Fixings

Fixings for roof profiles provide restraint against wind uplift forces; those for wall profiles provide restraint and support. Whilst profiles may be fixed through valleys or crowns, we recommend valley fixing: accurate fixing is easier to achieve, loads on the fixings are smaller, the fixings are less likely to distort the profile, and better compression of the sealant is achieved at end laps.



Colortite Screws

The integration of the durable Drillitite SD Stainless steel fasteners with the Colortite nylon moulded head produces a fastener with exceptional resistance to weather and corrosion.



Rooflights

Rooflights can be supplied to meet project requirements for light transmission, durability, non-fragility rating, fire resistance and thermal performance. In an insulated building the rooflights are double or triple skinned and do not compromise security.



PA Doors

Our secure steel doors are designed to integrate perfectly with our steel cladding systems. There are two door types; a fire rated emergency escape steel door and a **twelve point locking security** steel door, each insulated to BS EN 1634-1:2000:

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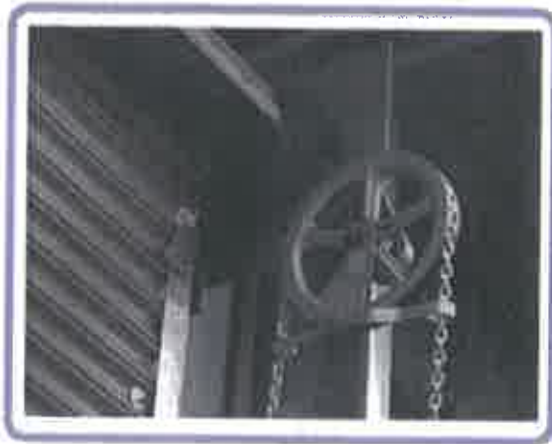


Roller & Sectional Doors

There are endless options when it comes to our doors but the most popular options are the four listed below;

- 1) Domestic Roller Doors
- 2) Light Industrial Roller Doors
- 3) Industrial Roller Doors (Class 5)
- 4) Insulated Sectional Doors

All doors above can be electrically or manually operated.



Our **Roller Doors** are plastisol coated to the colour of your choice extending the life of your roller door.

Roller Doors offer huge benefits over the traditional 'up and over doors'; they minimise the impact on the internal space and reduces wear on guides and moving parts. Please do not hesitate to ask us about our roller door options as these can make the difference between a building being 'fit for purpose' or not.

Our Hörmann **Sectional Doors** can be supplied in two thicknesses, 60mm and 80mm, these offer an insulated option where temperature control is important.

Sectional doors with a 60-mm-thick PU-foamed section are especially robust, offering excellent thermal insulation.

With the 80-mm-thick sectional doors with thermal break, you benefit from a very high thermal insulation. Its excellent insulation value (up to 0.48 W/m²K) is achieved thanks to the thermal break between the exterior and interior of the steel section. This also minimises the formation of condensation water on the inside of the door.

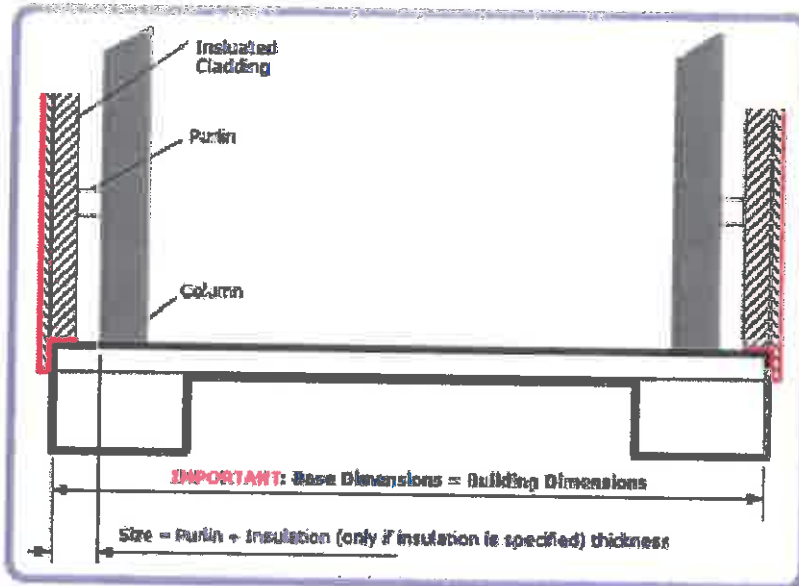


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Base/Foundation Information

Our buildings should be erected onto a prepared slab to ensure your buildings upward and downward forces are accommodated.

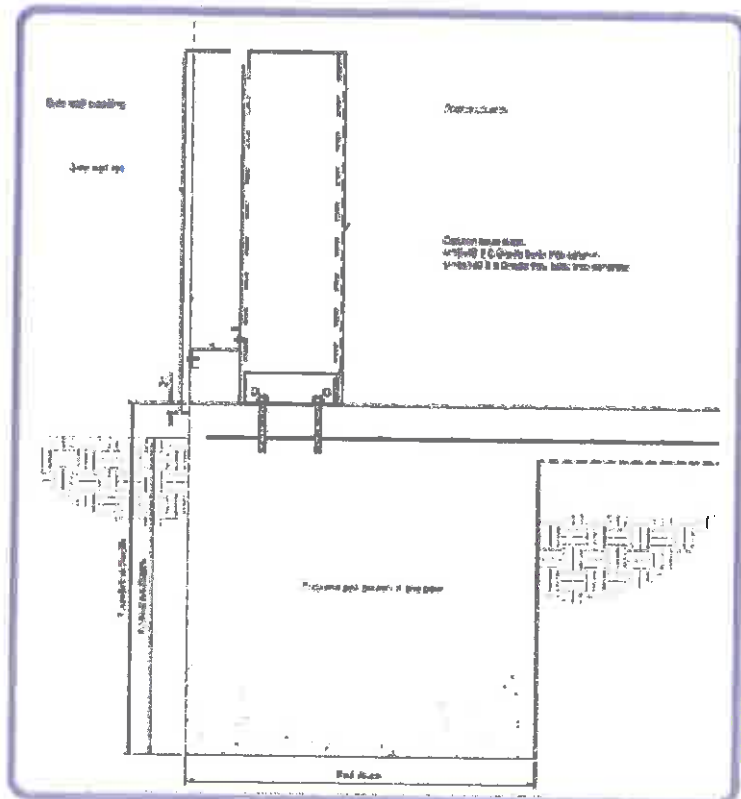


To ensure a water seal we recommend creating a base that is raised off ground level by a minimum of 50mm to allow our cladding to overhang the base and promote water to run away from the structure. Our buildings can be erected on to oversized bases/yards however this does introduce the need for an alternative method of creating a seal around the perimeter of the

building, please call us to discuss the options available.

The image to the right shows a single skin arrangement where the whole panel overhangs the base and creates the rain water run-off.

It is essential that a detailed conversation about how your proposed building will be mounted takes place prior to ordering the structure. If the building is not erected onto a pre prepared base we will need to introduce additional materials to promote a weather seal if this is important.



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