

## Technical Information

We can help you with any technical questions you may have regarding the installation of your concrete sectional building. Browse our technical section below to find the answer or ring us if you can't find what you are looking for. 0800 849 9036.

### CONCRETE PANEL SPECIFICATION

#### Standard Height Options

1.98m (6'6")

2.13m (7')

2.13m (7') + timber skirt giving a total panel height of 2.3m (7'6") approximately.

#### Standard Widths

0.3m (1')

0.45m (1'6")

0.6m (2')

Construction- Steel reinforced, machine vibrated concrete panels with Derbyshire aggregate multi-spa chippings to exterior.

#### Weight

0.3m wide x 1.98m high panel approximately 40kg

0.6m wide x 1.98m high panel approximately 95kg

## **Thickness**

Panel footprint and rib approximately 75mm (3") thick

Panel body approximately 40mm (1.5") thick

## **ROOF SHEETS**

Cement fibre roof sheets Manufactured in the United Kingdom by Eternit to the highest strength category of BS EN 494. Guaranteed for 30 years with a life expectancy of 40+ years. Corrugated in form with an approximate thickness of 6mm. Full specification of Eternit roof sheets can be supplied on request.

Steel roof sheets Galvanized steel 'Ultra' sheets offer fewer joins as an added security feature. Ideal for high risk areas such as council owned garage sites, schools, works, etc.

Translucent roof sheets Fibre-gel based roofing product which gives much more strength and durability than traditional transparent plastic roofing materials. Supplied in panel sizes of 1.8m x 0.9m (less overlap of approx 100mm all round when fitted).

## **ROOF TRUSSES AND PURLINS**

Trusses Welded 40mm x 40mm x 5mm angle iron mild steel trusses with red oxide primer protective coat fitted at 1.8m centres on apex buildings, and 1.2m centres on sloping buildings. Stability Frame (for sloping roof double garages) RSJ beam with channel iron legs to front and rear with red oxide primer protective coat. Purlins 75mm x 50mm softwood timber sourced from managed forests.

## **FASCIAS AND SKIRTS**

Timber Tongue and groove boarding for fascias and 40mm thick side skirts treated with Cuprinol red cedar preservative. PVCu Colour stable white PVCu cladding wrapped around timber in structural areas, and replacing timber components in non-structural areas of the building.

## HEIGHTS

Apex Buildings (external-standard building height)

Eaves: 2.06m (6'9")

Ridge: 2.44m (8'0")

Sloping Roof Buildings (external-standard building height)

Front (inc fascia board): 2.44m (8'0")

Rear: 2.06m (6'9")

## DOORS

Up & Over (standard building height)

Door height: 1.98m (6'6")

Clearance through the door when open: 1.87m (6'2")

Up & Over (2.13m building height – 7'0")

Door height: 2.13m (7'0")

Clearance through the door when open: 2.03m (6'8")

Up & Over (2.3m building height – 7'6")

Door height: 2.3m (7'6")

Clearance through the door when open: 2.17m (7'2")

**NOTE: Doors come in various widths including 7', 8', 9', 10', 12', and 14' apertures – enquire for full details**

# PERSONNEL DOORS

## Timber doors

Door height: 1.87m (6'2")

Door width: 0.60m (2'0"), or 1.07m (3'6")

## Cardale steel doors

Door height: 1.87m (6'2")

Door width: 0.76m (2'6")

## Hormann steel doors

Door height: 1.87m (6'2")

Door width: 0.86m (2'10"), or 0.94m (3'2")

**NOTE: Personnel door widths exclude frame, i.e. sizes quotes are opening sizes.**

# DOOR SWINGS

Up & Over doors swing outwards approximately 1 metre before returning back towards the garage.

# OVERHANGS

Apex roof buildings 100mm to each side (unguttered), 150mm-200mm to each side (guttered) Sloping roof buildings 50mm to each side, 100mm to rear (unguttered), 150mm-200mm to rear (guttered)

## **DOOR AND WINDOW POSITIONS**

Up & Over Doors Apex roof buildings can have door fitted in ANY plane of the building (front, rear, or either side), and it is possible to fit more than one door in a single building (i.e. front and rear) subject to specification. Sloping roof buildings can have door fitted in either front or rear of the building, or both (subject to specification), thus creating a forward or rearward sloping roof. Personnel doors & windows Personnel doors and windows can be fitted virtually anywhere in the building, apart from across roof truss positions and in the exact corners of the building. Doors open outwards as standard and can be hinged from left or right. Inward opening doors are also available.

## **PLANNING PERMISSION**

Most sectional buildings are completely void of the requirement of planning permission or building regulations, but it is always recommended to check with your local planning office before commencement of any building or base work.

## **BASE SPECIFICATION**

Garage base must be manufactured from concrete. It should be minimum thickness of 100mm (4"), and ideally thicker around the perimeter of the slab to 150mm (6"). Base should be approximately 150mm (6") wider and 150mm (6") longer than the desired garage size, and completely flat, level and square. Consideration should be taken for roof overhangs, guttering, and door swings (including the up & over door) when positioning the base. The concrete should be left to cure for a minimum of one week prior to the delivery of the building.

## **MORTAR FILLETS**

A mortar fillet is required to seal the buildings panels at the base junction after installation. It should be applied to the INSIDE of the building only and be triangular in shape, spanning approximately 25mm (1") of the panels and base. The door weather strip should be secured to the base using screws & rahl-plugs, and the mortar fillet should be applied to both INSIDE and OUTSIDE of the weather strip. Installation MUST be carried out on a dry day to ensure adequate adhesion. A

stronger bond will be achieved if Unibond adhesive or similar is incorporated in the mixing water at the rate of 1 part Unibond to 5 parts water.

## **OLD GARAGE REMOVAL**

Old garage removal is best carried out by a specialist firm from your local area. Search for 'waste removal' or 'rubbish removals' in the classified section of your local *freesheet* newspaper. Be aware, most skip companies are not allowed by law to carry asbestos and you must make other provisions for removal of this type of waste material. Contact us for more information.

## **ACCESS TO SITE**

Our lorry needs to gain access within 30 metres of your proposed garage base site. The panels and other component parts of your building are extremely heavy, and require us (by health & safety at work regulations) to push the component parts to the base site from the lorry with the aid of our 900mm (3') wide hand operated trolley. There should be no obstructions between the lorry and the base, including steps, gate openings less than 900mm, steep inclines, soft ground, or rough terrain. If there are any issues with access, it is still possible to deliver & erect your building, but you must inform the office at point of order or before as to the issues concerned.

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## **NOTE**

We reserve the right to modify or change specifications or materials without notice due to improvements or shortages. All sizes are approximate. If you need exact specifications or measurements please contact our office. No responsibility is accepted for errors or omissions herein.