



**Innovative  
modular  
framing systems**

# Speedframe

**Design and construction made easy**

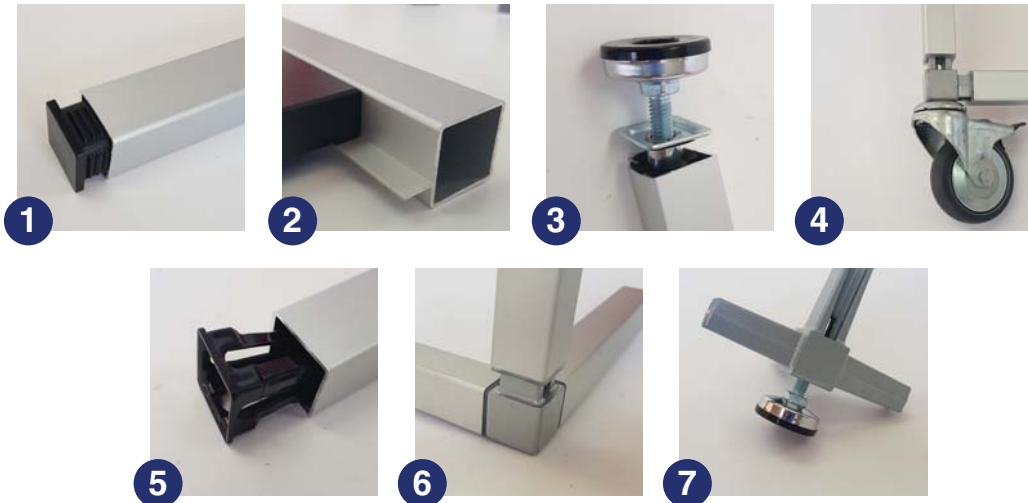
- ✓ Available in aluminium with a suite of 14 different sections to choose from
- ✓ No painting or welding required
- ✓ DIY flat packs
- ✓ Cut to length service available
- ✓ Design and installation are on us

**☎ 1800 021 177**

# OVERVIEW

## SPEEDFRAME® FEATURES

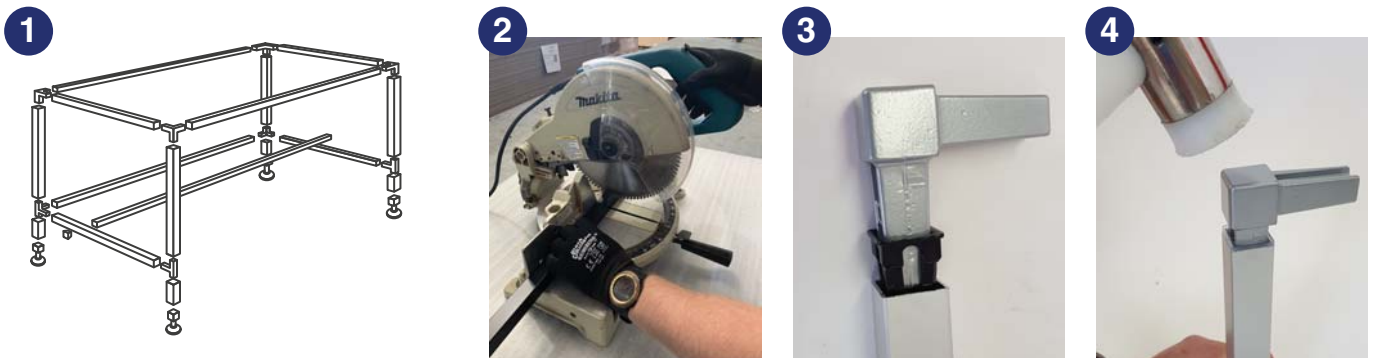
At Speedframe, we offer ready-to-use and cut-to-size modular framing systems that can be assembled without the fuss. Our products are versatile and easy-to-design, making basic adjustments a breeze. We also have an array of panelling, glazing, cladding and shelving accessories to complete the package. Planning to design and develop fitouts for your home or office? Find out what Speedframe has in store for you!



1. Black nylon caps to ensure a neat finish
2. 16mm board drops in flush on fin tube
3. Adjustable foot for levelling on uneven floors
4. Castors for mobile units
5. Insert to ensure ridged interface between tube and joint
6. Strong ridged reliable joints. Joints for all possible right-angle intersections
7. Joints can be tapped for more options

## 4 EASY STEPS TO MAKING YOUR OWN SPEEDFRAME® STRUCTURE

1. Once you have worked out what you are going to construct, simply order the number of tubes you will need together with the joints and inserts, plus any accessories. You need to allow 27mm for each joint and insert when calculating the length of the tube you need. You may find it helpful to produce a rough sketch with a list of items you need to order.
2. Cut the tube to the size you need. Alternatively you can order tube pre-cut to size.
3. Push an insert into the end of the tube and then a joint into the insert.
4. Hammer the joint home to create a solid structure.



## 1. SKETCHING THE UNIT

Make a simple sketch of the unit to be built. Show tube lengths and joint numbers (Figure 1). (To calculate overall dimensions add 1.6mm to tube length for each insert and 25.4mm for each joint). Beside the sketch, make a list of materials needed - tube lengths, joints, inserts, shelf supports, shelving material etc., referring to the Speedframe Components Guide.

### List of materials (Dimensions shown refer to tube lengths)

#### SQUARE TUBE JOINTS

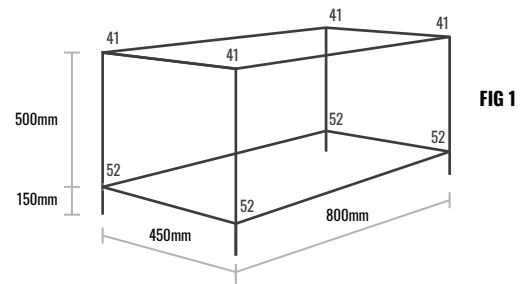
4 off 800 mm = 3200 mm  
 4 off 500 mm = 2000 mm  
 4 off 450 mm = 1800 mm  
 4 off 150 mm = 600 mm  
**TOTAL = 7600 MM**

#### JOINTS

4 off 4.1 (1 pkt)  
 4 off 5.2 (1 pkt)

#### ACCESSORIES

28 off Inserts  
 4 off Adjustable Feet



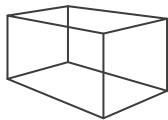
## 2. DESIGN RULES

### Alloy Speedframe

(i) Intercepted members must never be load-bearing unless they are supported by a downward strut (Figure 3). When calculating lengths of intercepted members allow for size of joint and inserts (Figure 4).

(ii) To strengthen legs of structures always fit base not more than 152mm above the ground. When building trolleys either fit base ties at the bottom and use plate-fitting castors or fit reinforced leg units and use 102mm diameter plug-fitting castors. When fitted in this way these castors are suitable for industrial use and will carry loads of up to 68kg per castor.

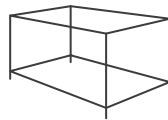
FIG 2



A cube of Speedframe is very strong

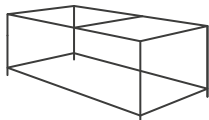


Wrong



This is correct provided legs are not more than 152mm long

FIG 3



Wrong



Correct. All joints supported by downward struts

## 3. CUTTING

If not using ready-cut lengths, cut tube to size using a hacksaw or cut-off saw. For maximum economy, cut longest lengths first. Carefully remove burrs from cut ends of the tube using a file.

## 4. MAKING JOINTS

Push insert into open end of tube. Select the joint required and push the arm of the joint into end of tube. Strike the head of the joint (not the arms) with the white face of the Speedframe hammer to drive the joint home, the insert will then retain it firmly in place. Avoid hammering open ends of tube - interpose a piece of wood. Speedframe frame-works can be dismantled by knocking apart with the Speedframe hammer.

Joints can be screw fixed to safeguard them coming out. Make sure the joint is properly home. Drill a 3.5mm hole approximately 10mm from the end of the tube. Drill through one side of the tube and right through the joint making sure that the hole does not penetrate the opposite wall of the tube. Screw fix with appropriate self-tapping screw.

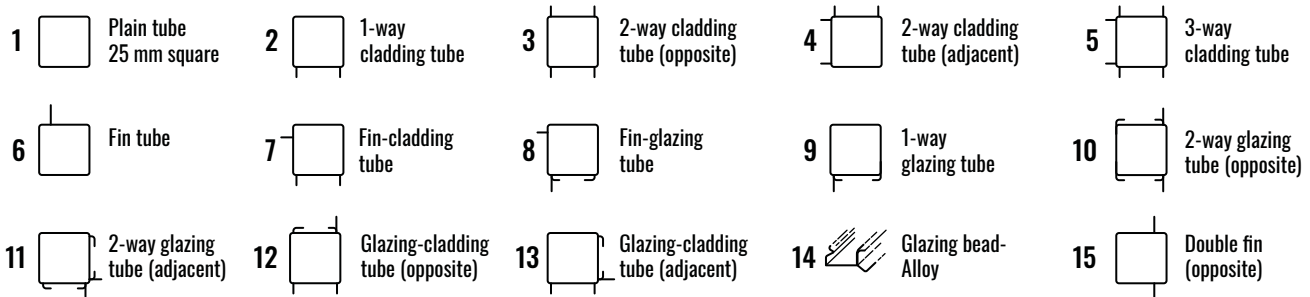
## IMPORTANT

Failure to properly apply the design and assembly instructions contained herein may result in you building an unsafe structure. If in any doubt whatsoever, contact your local Speedframe centre for advice before proceeding.

# DESIGNING

## 5. TUBE PROFILES

The Alloy Speedframe system comprises a range of extruded aluminium tubes, with joints and inserts as for the steel system. These extrusions cater for a wide range of cladding and glazing requirements and allow considerable flexibility in designing display partitioning and exhibition applications. The natural anodised finish, with colour/matched joints, is durable and aesthetically pleasing.



All tubes are 25mm square, extruded from aluminium alloy in natural finish and clear anodised. Cut Lengths: In any size from 102 mm to 3658 mm. Glazing bead-Alloy is supplied in 2540 mm nominal lengths. Refer to Page 6 for Tube Profile part no.

# ASSEMBLY

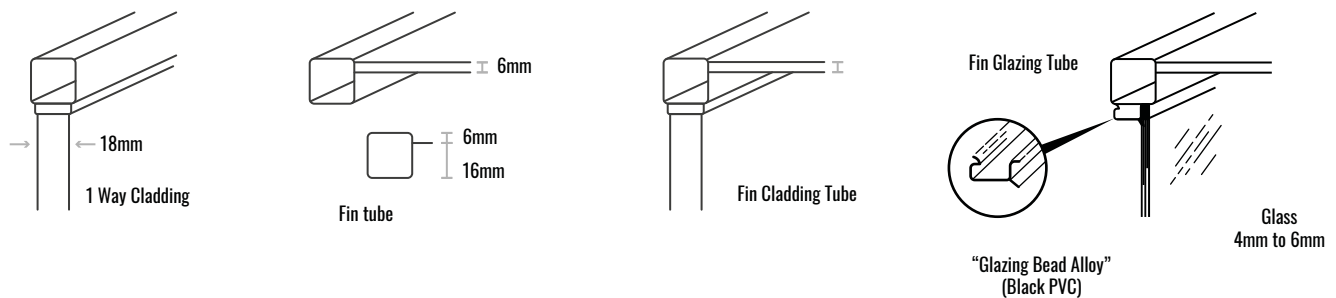
## SPECIAL POINTS FOR ALLOY SPEEDFRAME

1. Mitre fins of the section, if necessary, using nylon template and clippers or fine toothed hacksaw.
2. Cladding must be fitted before framework is completed.
3. Glass can be inserted after framework is completed as it is retained by snap-in bead.

## 1. JOINTS

Standard Speedframe joints provide the seven possible right-angle intersections of square tube. The joints are pressure die-cast in aluminium alloy and stove- enamelled to simulate the finish of the tubes. Joints type 6.6 are supplied unfinished as they are not visible when assembled.

## 2. APPLICATIONS



# COMPONENTS

## JOINTS

All Speedframe Joints are pressure die-cast in aluminium alloy and provide the seven possible right angle intersections of square tube.



### JOINT 1.1

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0330 3532	0448 6604	0330 3328



### JOINT 2.2

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0330 3838	0448 6507	0330 3345



### JOINT 3.3

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0330 3821	0448 6400	0330 3379



### JOINT 4.1

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0330 3787	0448 6303	0330 3396



### JOINT 5.2

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0330 3770	0448 6206	0330 3413



### JOINT 6.3

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0020 9372	0448 6109	0330 3447



### JOINT 6.6

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0222 9009	-	-



### ROUNDED 1.1

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0330 3736	0330 3940	0330 3906



### ROUNDED 4.1

<b>COLOUR</b>	NATURAL	BLACK	SILVER
<b>PART NO.</b>	0330 3702	0330 3872	0330 3889

## TUBE PROFILES - LENGTH 3660MM

Refer to illustrations on "Designing" Page 3

Plain Alloy tube	Cat 1	PART NO. 0330 2937
1-way cladding tube	Cat 2	PART NO. 0330 2920
2-way cladding opposite	Cat 3	PART NO. 0330 2903
2-way cladding adjacent	Cat 4	PART NO. 0330 2886
3-way cladding tube	Cat 5	PART NO. 0330 2869
Fin tube	Cat 6	PART NO. 0330 2852
Fin cladding tube	Cat 7	PART NO. 0330 2835
Fin glazing tube	Cat 8	PART NO. 0330 2818

## ACCESSORIES



### INSERTS

Moulded in hard, creep resistant plastic in black, grey and clear (Soft white polyethylene inserts are available for building less rigid structures which may be frequently knocked down and reassembled).

\*USE FOR FREQUENT KNOCKDOWN & ASSEMBLY

<b>COLOUR</b>	BLACK	GREY	CLEAR	WHITE*
<b>PART NO.</b>	0499 8804	0330 3974	0330 3991	0330 3957



### NYLON BLACK CAP

Loading: Up to 227kg each.

<b>COLOUR</b>	BLACK
<b>PART NO.</b>	0448 6602



### ADJUSTABLE FOOT

Plastic foot with zinc-plated cap. Adjustable for height and angle. Loading: Up to 227kg each.

<b>2 PARTS</b>	
<b>PART NO.</b>	0045 2603



### FLANGE

Bright zinc-plated steel, punched to accept countersunk screws. Flange used to secure adjustable foot to base.

<b>COLOUR</b>	BRIGHT ZINC
<b>PART NO.</b>	0330 3294

## TOOLS



### SOFT FACE HAMMER

<b>PART NO.</b>	0033 8400
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### CLIPPERS

For mitering fins on alloy tube (use with template)

<b>PART NO.</b>	0130 4310
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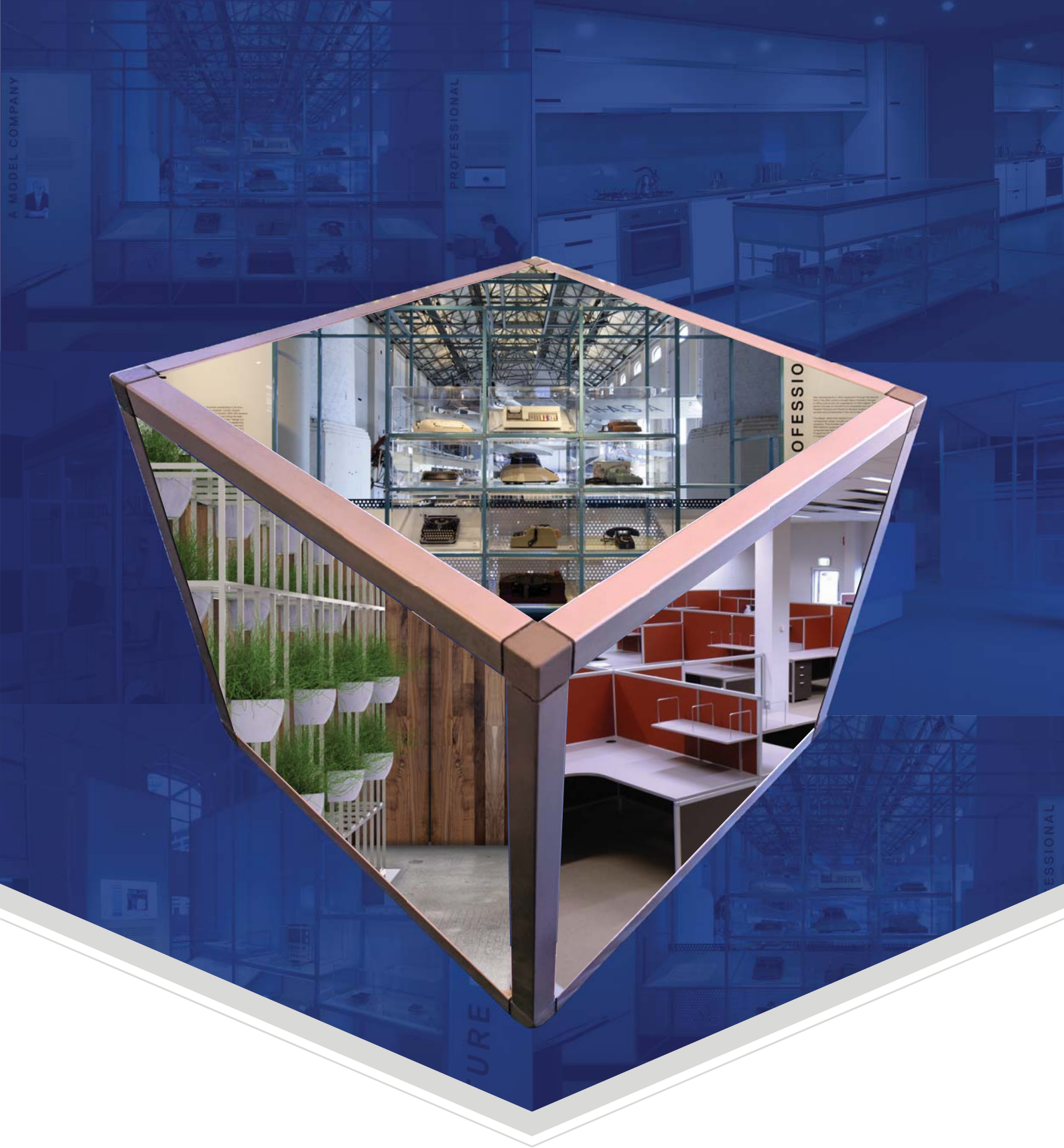


### TEMPLATE

Template for mitering fins on alloy tube & glazing bead.

<b>PART NO.</b>	0330 2580
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# Speedframe

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[WWW.SPEEDFRAME.COM.AU](http://WWW.SPEEDFRAME.COM.AU)