

7STEEL

Building Solutions



AUSTRALIAN STEEL INSTITUTE

7 STEEL BUILDING SOLUTIONS COMPANY OVERVIEW

7 Steel Building Solutions are experts in the supply of fabricated structural steel to customers within the residential, light commercial and construction fields. They have been successfully operating for over 15 years with offices and fabrication shops in Sydney and Melbourne, Australia.

They are a family owned and operated, solutions based company that understands the importance of planning and ensuring that their customers have all of the necessary information, assistance and support from designing their dream project to the supply of all of the fabricated structural steel products and installation.

Remaining a family based company has enabled 7 Steel Building Solutions to form a market leading reputation, uphold their family based business value system and create a wealth of experience through the retention of passionate staff that work together to provide their clients with 360 degree support.

STEEL FABRICATION

Residential & Commercial

STRUCTURAL STEEL

Beams & Columns

CAD SHOP DRAWINGS

Inhouse Drafting Team

STEEL PRODUCTS

Galvanises Lintels & Tbars

INSTALLATION

Rigging Services

RECTIFICATION

Site Welding & On-site

PROJECT BUILDERS

Complete Packages

CUSTOM PROJECTS

Expert Advice Available





THE DESIGN TEAM

7 Steel Building Solutions provide a full house of design services and extensive experience to transform their customer's imagination into reality.

The design team comprises of a selective, handpicked group of highly trained CAD draftsmen with backgrounds in building, drafting and architecture to deliver an all-round service.

Along with an all-encompassing capability in developing 2D and 3D drawings for exhibition, staging and other event elements, the team works closely with their customers to really understand their ideas, thoughts and concepts to build a design that meets their required specifications for construction purposes and also ensures that it is within building standards.

The team has the ability to produce walk throughs, site plans, venue drawings and a full suite of design solutions all in-house. Utilising programs like AutoCAD, 3D Studio Max, Alphacam, Adobe Illustrator and Photoshop, Vectorworks, SketchUp, Revit, Archicad, Solid Works and Rhinoceros 3D, the CAD team has extensive know-how when working on large scale projects.



CASE STUDY - AVALON JRFS**BEACH HOUSE**

7 Steel Building Solutions was approached by JRFS Construction in 2015 to build an Avalon beach house designed by Andrew Croft and Lachlan Dear from Arclab for a couple named Gavin and Linzi.

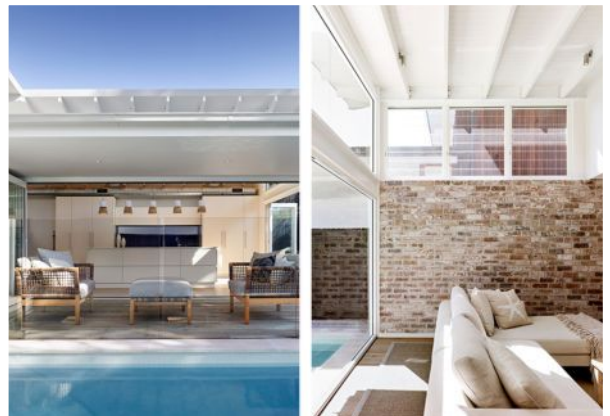
The owners sought to build a modern beach house that would maximise light and space in a modern combination of timber, steel and stone in neutral colour tones.



7 Steel Building Solutions supplied and installed all of the fabricated structural steel beams and columns throughout the house, the structural frame for the ceiling and the structural frame to support the large display of glass windows and bi-fold doors that allow the kitchen area inside the house open onto a spacious back deck and pool area allowing for a larger entertaining area and a modern beach house feel.

The fabricated structural steel used assisted to create optimum, architectural forms and flexibility to meet the design needs of Arclab and JRFS Construction.

By using 7 Steel Building Solutions fabricated structural steel, this beach house will stay straight and square



indefinitely through varying temperatures and humidity changes which will also reduce the likelihood of getting cracks in the corner of the internal roof and doors. The steel beams, columns and frames have provided this home with strength and geometric stability.

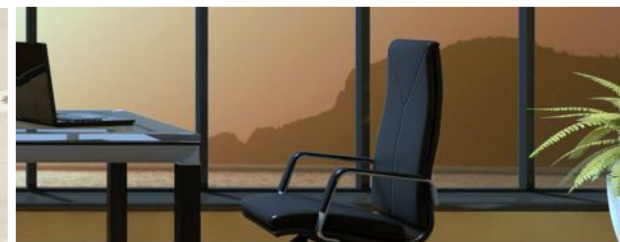
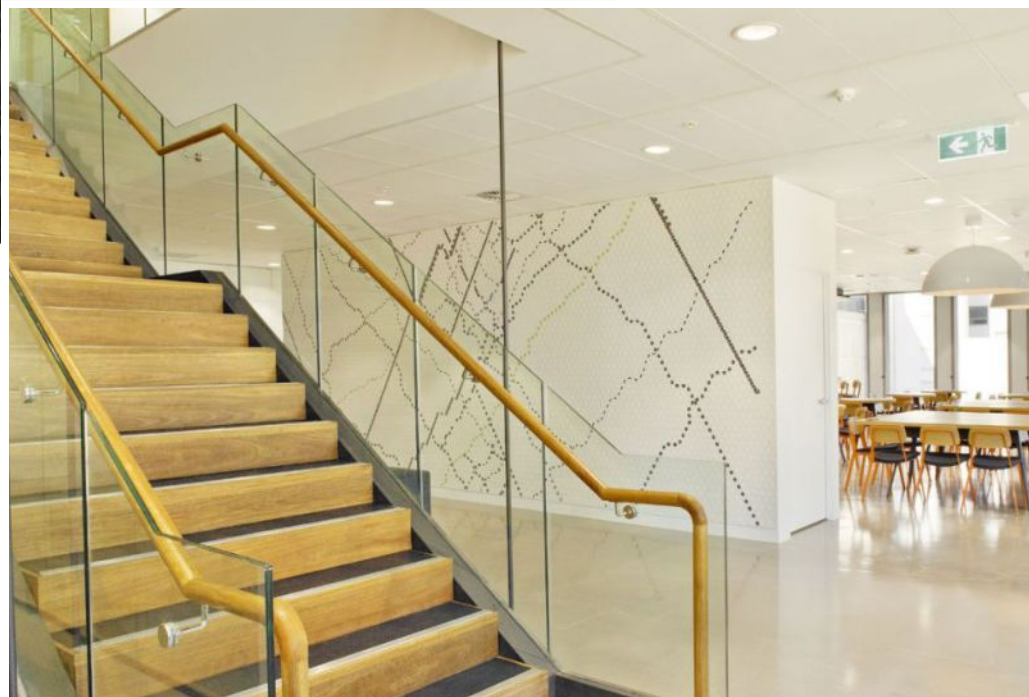
All of 7 Steel Building Solutions products were successfully supplied and installed within deadline without incident.



CASE STUDY - WILLIS SYDNEY

OFFICE FIT OUT

Willis Sydney was contracted to complete a high quality, \$3.2 million, 3100M² commercial office fit out that needed to be completed within fourteen weeks from the project start date. 7 Steel Building Solutions was brought on board to supply and install all of the fabricated structural steel for the re-build of the staircase.



The motivation behind getting 7 Steel Building Solutions to construct the stairs in fabricated structural steel was to ensure that they were extremely sturdy and had a significant higher tolerance for continual use, weight and force.

The idea behind the fit out was to create and showcase a designer office; the staircase was a necessary

feature and acted as a centrepiece. The structural elements, accessories, textures and colours of the staircase blended in well with the rest of the office design and layout which made this project a success.

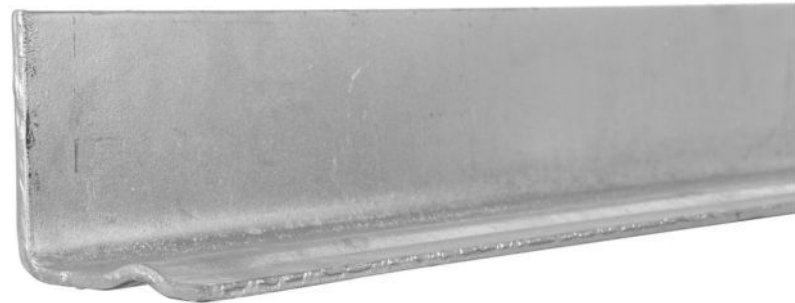
All of 7 Steel Building Solutions products were successfully supplied and installed within deadline without incident.

PRODUCT**EZI-LINTELS**

7 Steel Building Solutions products are hot dipped galvanised to provide long life and a quality finish.

All 7 Steel Building Solutions lintels are made to meet the following standards;

- Hot Dip Galvanised to AS/NZ 4680:2006
- R3 Durability rating in accordance with AS/NZS 2699.3:2002
- Available in a large range of sizes and lengths
- Complies with masonry structures code AS3700:2002
- Complies with structural steel code AS4100:1998
- Easy to use and ready to install



**HOT-DIPPED GALVANISED
FOR DURABILITY AND
LONG LIFE**

**INTERNAL ANGLE ROLLED
TO SUIT BRICKWORK**

**FLAT BASE FOR EASY
LAYING OF BRICKWORK**

PROPPING OF LINTELS

7Steel Lintels and flat bar enable the support of masonry over openings by utilising the strength of steel in conjunction with the strength of properly laid brickwork.

Whenever brick work is being built up over a 7Steel Lintel at a faster rate than the mortar is hardening, propping of lintels is recommended to avoid any sagging, which will not effect the strength of the lintel but may look unsightly.

END BEARING AND SELECTING LINTELS

It is recommended that a minimum of 150mm on each end of span is allowed when selecting the correct lintel eg. for an opening of 1500mm, add 150m each end, therefore a 1800mm lintel will be required.

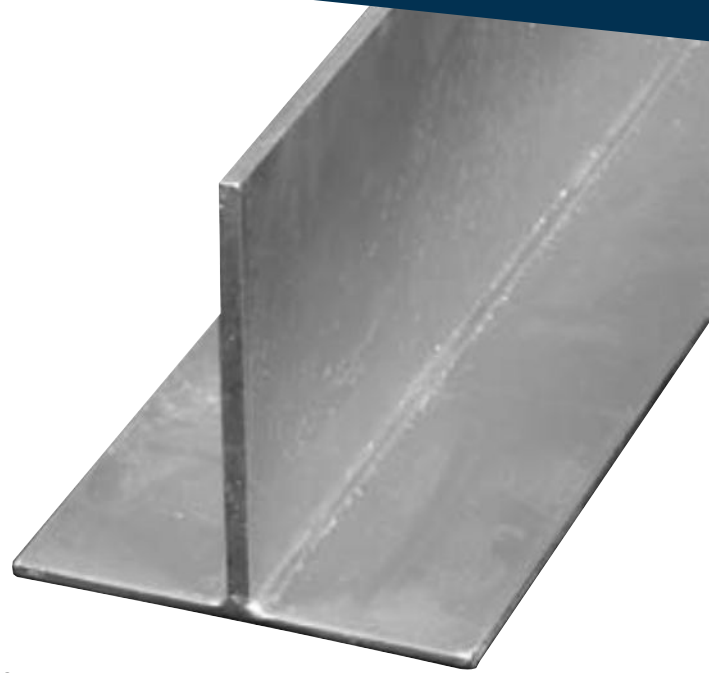
7Steel always recommend that the advice of a structural engineer is sought when using 7Steel Lintels especially when point loads occur over openings.

PRODUCT**EZI-TBARS**

7 Steel Building Solutions products are hot dipped galvanised to provide long life and a quality finish.

All 7 Steel Building Solutions lintels are made to meet the following standards;

- Hot Dip Galvanised to AS/NZ 4680:2006
- R3 Durability rating in accordance with AS/NZS 2699.3:2002
- Available in a large range of sizes and lengths
- Complies with masonry structures code AS3700:2002
- Complies with structural steel code AS4100:1998
- Fully welded for strength
- Easy to use and ready to install

INSTALLATION

**HOT-DIPPED GALVANISED
FOR DURABILITY AND
LONG LIFE**

**SHARP ANGLE TO SUIT
BRICKWORK**

**WIDE BASE FOR A
PROFESSIONAL RESULT**

7 Steel Building Solutions recommends that brickwork is built up evenly on both sides of the Tbar during the construction process. Uneven loading may cause the Tbar to twist and effect the finished brickwork. Brickwork should be laid in accordance with AS 3700.

7 Steel Building Solutions Tbars rely on the strength of the Tbar itself and the strength of finished masonry over openings. Although 7 Steel Tbars will support a small number of brick courses it is recommended that at least 3 courses of brickwork are laid above the lintel.

7 Steel Building Solutions recommends that all Tbars are propped until the mortar of the brickwork has set to avoid any sagging in the Tbar.



7STEEL

Building Solutions

Sydney NSW - Head Office

235 Newton Road
Wetherill Park NSW 2145
Australia

P (02) 8071 4383
F (02) 9896 5968

sales@7steel.com.au

Melbourne Victoria

46 Chelmsford Street
Williamstown, VIC 3016
Australia

P (03) 9397 2451
F (03) 9397 2880

orders@7steel.com.au

www.7steel.com.au