GANG-NAIL®

CRT
Cork Roof Truss Company

Space Joist

BUILDING DESIGNER GUIDE

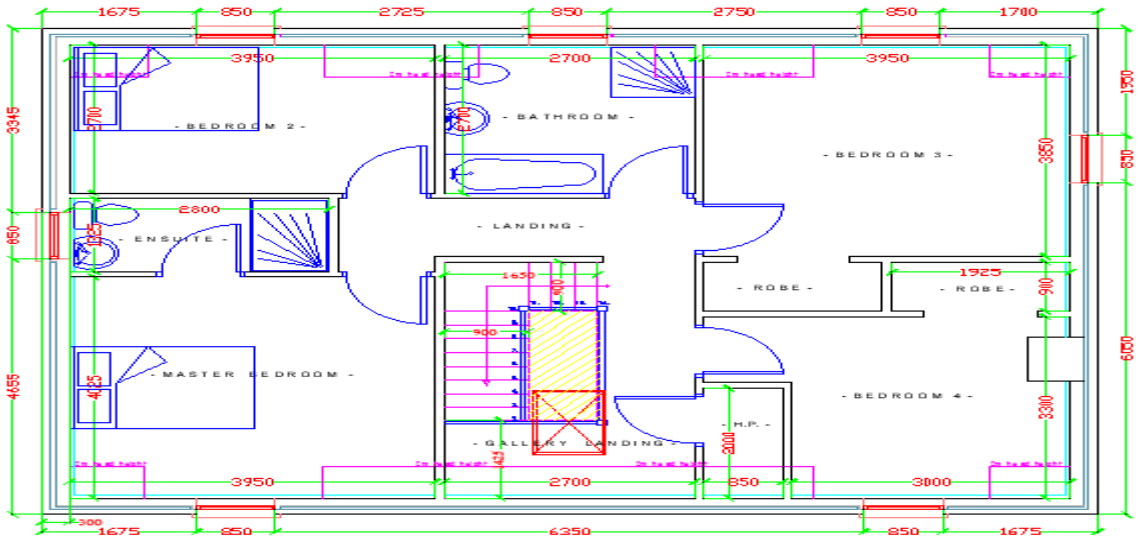
…The Purpose of this Document is to Identify to the Building Designer the Critical Information Required to Complete a Space Joist Design.

Table of Contents

Recommended Drawings

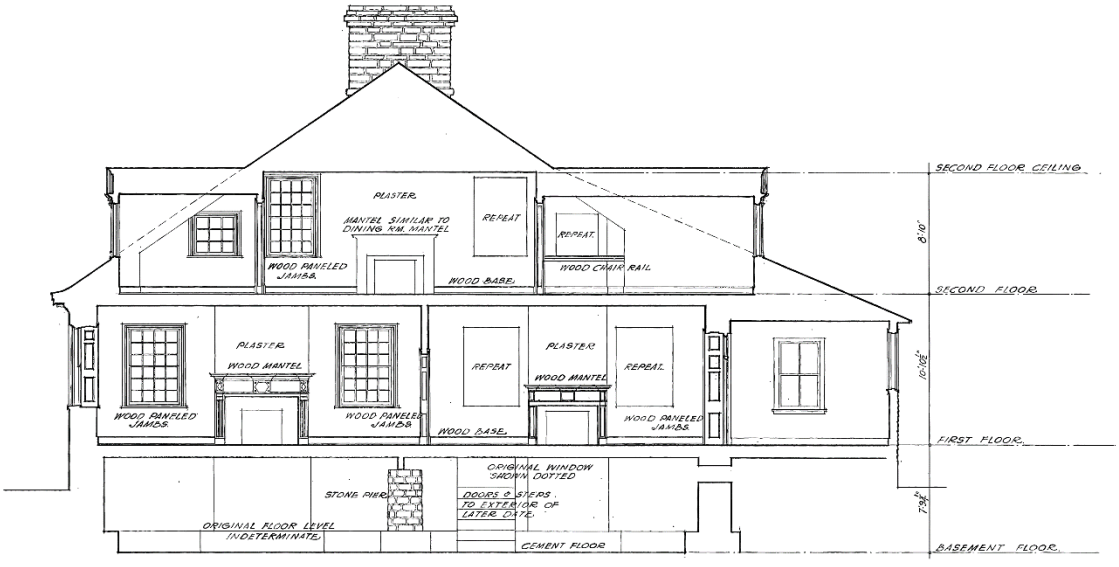
Floor Plans

Space Joists are designed to suit exact setting out. As such, floor plans must be provided with all dimensions for both external and internal walls. Any discrepancies during construction may mean that the Space Joists will not fit and may require re-designing. Load bearing walls must be highlighted on plans. It is important for a designer to have confirmation that walls used within the design for supporting the Space Joists are load bearing. It is important to remember that any connection of the floor structure to the building must be reviewed and confirmed by the building designer.



Sections

Sections are critical for the floor designer to get an understanding of the Space Joist requirements. They should show floor & ceiling heights. In addition, they should show the supporting wall levels. Sections also give an indication of the loading on a floor by showing coverings and insulation depth.



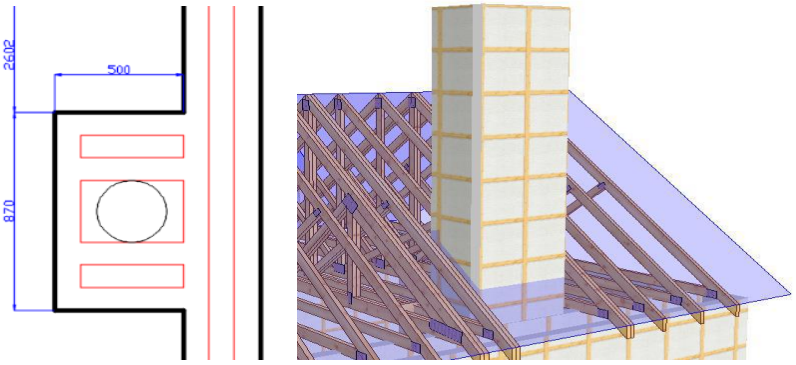
SECTION LOOKING EAST

Features & Penetrations

Chimneys

Where chimneys are desired it is necessary to specify the:

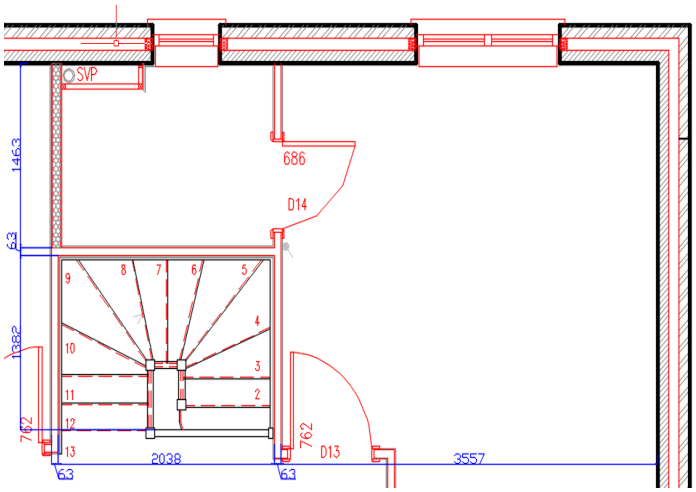
- Size of chimney as it passes through the floor.
- Position of chimney as it passes through the floor.



Stairwells

Where stairwells are desired it is necessary to specify the:

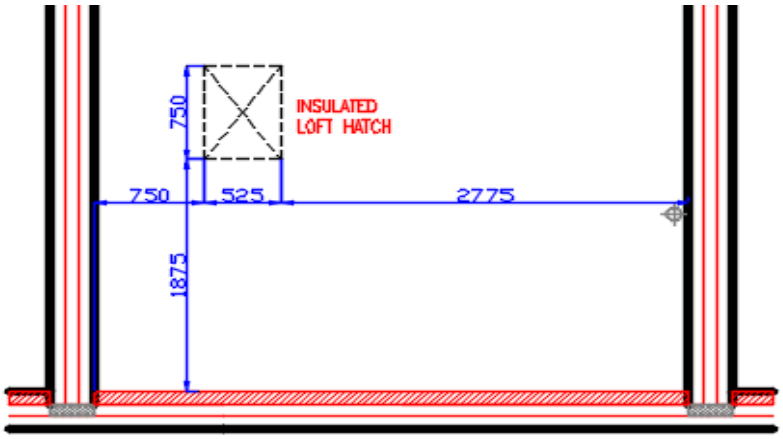
- Stairwell position
- Stairwell opening size
- Location indicated of stair support positions floor



Attic Hatches

Where access hatches to the attic space are desired it is necessary to specify the:

- Dimensions of the hatch
- Positioning of the hatch on plan



Building Designer Responsibility

Building restraint & bracing

The floor designer takes responsibility for the bracing of the floor structure, however, the bracing of the building and therefore the connection of the floor bracing to the structure is the responsibility of the building designer.

Loadings

It is the building designer's responsibility to inform the floor designer of all the loads being applied to the floor structure. The building designer should review the design to ensure the Space Joist designer has accounted for all necessary loadings.

Connection of floor structure to building

Specifications of connections of the floor structure to the building are the responsibility of the building designer. These must be reviewed during approval to ensure they meet requirements. Building designers should particularly ensure that actions of wind onto a building have been taken into consideration.

Considerations

Specifications

Inclusion of client specification documents is important to enable the designer to obtain critical information that could have a significant influence of the design and price of a structure, for example:

- Treatment requirements
- Timber and metalwork specifications

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