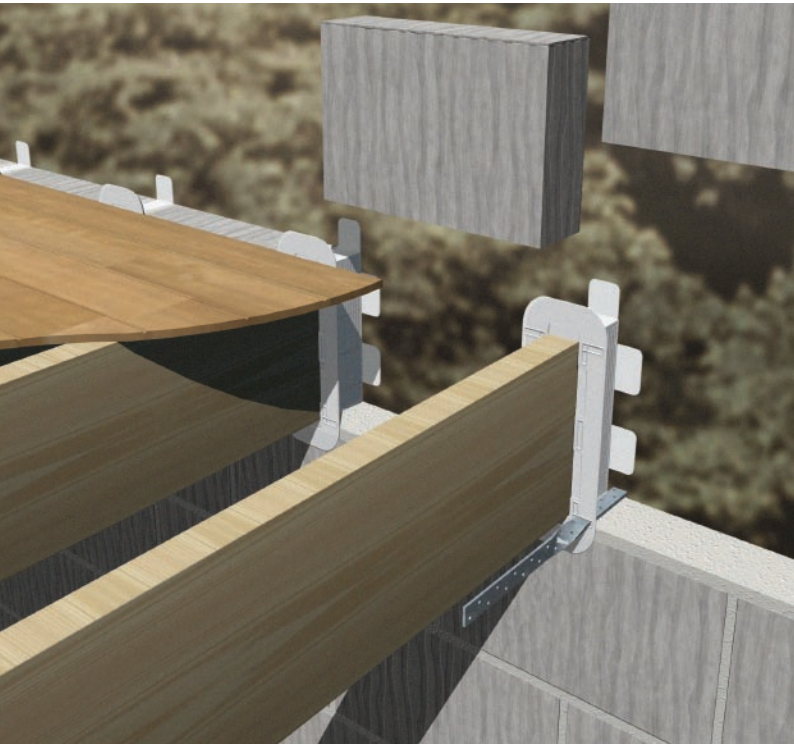




joist seal



joist seal

the joist seal
from Manthorpe

Manthorpe has developed a revolutionary product range to solve the problem of air leakage around timber joists and 'I' beams and eliminate the need for joist hangers.

Designed to meet the requirements of Part L Building Regulations regarding increased insulation and air leakage, Manthorpe's Joist Seal provides an effective and easy to install solution.

The Problem

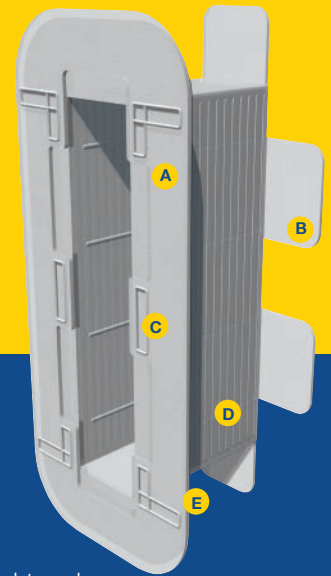
The Robust Construction Details suggest that timber joists should no longer be built into the internal blockwork skin of an external wall as the shrinkage of joists and mortar allows air leakage into the cavity.

To meet Part L and Part E Regulations, an alternative to the traditional construction method is to use joist hangers to suspend joists. However, this slows down the building process and they are more difficult to fit correctly leading to reported structural problems such as springy floors and, in some cases, total collapse.



A joist hanger which has been poorly fitted to a wall: the reason why some modern timber floors are springy.

- A Front sealing / location flange
- B Rear location flanges provide positive pressure on seal
- C Cut out tabs to fit restraining straps as required
- D Mortar key
- E Foam gasket provides an air-tight seal



The Solution

As an alternative to the Robust Construction Details suggestion, and to address these problems, Manthorpe has developed the Joist Seal which fits over the joist end before being built into the blockwork in the traditional manner. Effectively, the Joist Seal is a box built into the inner wall which is sealed to the masonry to form an air-tight joint. The floor joist fits into this box.

During the drying out period, the timber floor joist can shrink within the product without the seal between the box and the masonry being affected, thus complying to Part L.

Key Benefits:

- Substantial time savings on site
- Compliant to Building Regulations Part L (Air Leakage)
- 1 Hour Fire Tested (Warrington Fire Research) in party wall detail.



The Range



Why Use Manthorpe Joist Seals?

All sectors of the construction industry agree that Joist Seals are of great benefit to the builder.

Throughout the development of this product range, Manthorpe has sought information and recommendations from industry experts to assist in the design of the ultimate product to combat air leakage around timber joists and comply with regulations regarding acoustics.

Testing

Tests carried out at CERAM Building Technology proved that Manthorpe's Joist Seals were more effective at preventing air leakage than pointing with a sealant, and even out-performed joist hangers.

Manthorpe's Joist Seals are suitable for use in party walls and have been tested for fire resistance at Warrington Fire Research Centre.

The Joist Seal fits all common joist sizes.

Manthorpe has a comprehensive range of seals to fit all situations i.e. for different joist heights and widths as well as for varying block widths.

Restraining straps can be used in conjunction with the Joist Seal by trimming slits into the product at designated points.

As a unique safety feature, Manthorpe's range of joist seals is manufactured in translucent polypropylene to allow a clear view of the joist resting on the blockwork inside the product.

Every product has a black compression seal to enhance thermal efficiency.

If using joists smaller than the Joist Seal, the joist should be packed using a suitable dry timber material or mineral fibre to prevent movement and preserve the structural, thermal and fire integrity of the structure.



Technical Dimensions

(Height - Width - Block Size)
(G912 - 48 - 100)

G912 = Height of 225mm	
100mm Blockwork	115mm Blockwork
G912-40-100	G912-40-115
G912-48-100	G912-48-115
G912-65-100	G912-65-115
G912-75-100	G912-75-115
G912-90-100	G912-90-115
G912-100-100	G912-100-115
G912-150-100	G912-150-115
G913 = Height of 302mm	
100mm Blockwork	115mm Blockwork
G913-38-100	G913-38-115
G913-45-100	G913-45-115
G913-60-100	G913-60-115
G913-76-100	G913-76-115
G913-90-100	G913-90-115
G913-120-100	G913-120-115
G913-150-100	G913-150-115
G913-180-100	G913-180-115

All items made from polypropylene.

G912 = Height of 225mm		
125mm Blockwork	130mm Blockwork	140mm Blockwork
G912-40-125	G912-40-130	G912-40-140
G912-48-125	G912-48-130	G912-48-140
G912-65-125	G912-65-130	G912-65-140
G912-75-125	G912-75-130	G912-75-140
G912-90-125	G912-90-130	G912-90-140
G912-100-125	G912-100-130	G912-100-140
G912-150-125	G912-150-130	G912-150-140
G913 = Height of 302mm		
125mm Blockwork	130mm Blockwork	140mm Blockwork
G913-38-125	G913-38-130	G913-38-140
G913-45-125	G913-45-130	G913-45-140
G913-60-125	G913-60-130	G913-60-140
G913-76-125	G913-76-130	G913-76-140
G913-90-125	G913-90-130	G913-90-140
G913-120-125	G913-120-130	G913-120-140
G913-150-125	G913-150-130	G913-150-140
G913-180-125	G913-180-130	G913-180-140

For information on other joist sizes contact
Manthorpe on 01773 514 200.

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www.manthorpe.co.uk



References:

Conservation of Fuel and Power
Approved Document L 2002
Robust details Part E

Manthorpe Quality

Manthorpe manufactures a range of ventilation and building products at its headquarters in Derbyshire, under an ISO9001 Quality Assurance Scheme.

All products are designed to comply with the relevant current Building Standards when fitted in accordance with the manufacturer's instructions.

The company maintains a policy of continuous development of its product range and reserves the right to amend the specifications without notice.

