

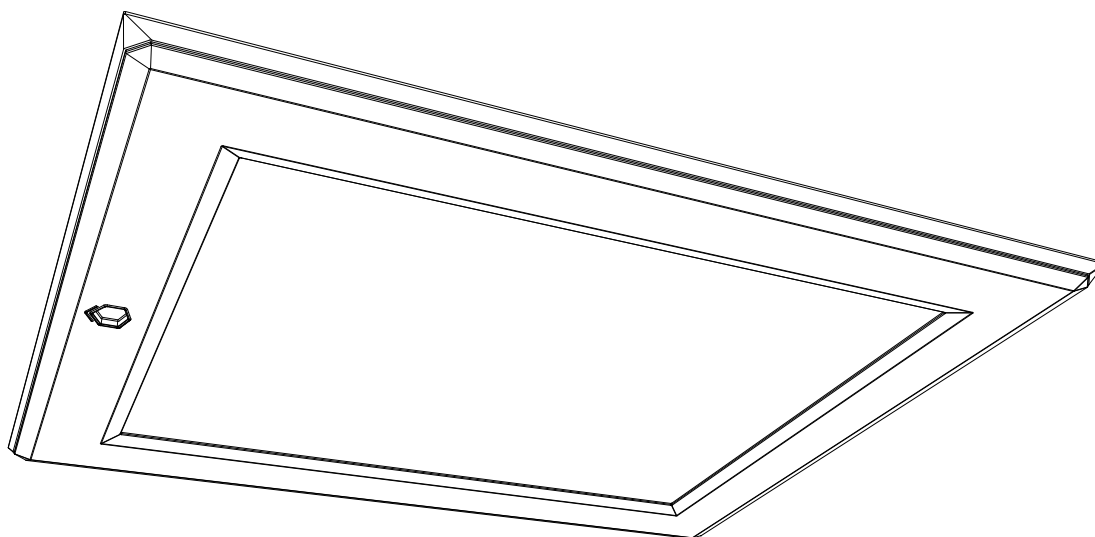
### Drop Down Loft Access Door

CODE **GL250-015-PU**

#### Description

The GL250-015-PU drop down loft door is an innovative solution to the need for energy efficient loft space access, offering a cost effective alternative to traditional roof space access. The unobtrusive design coupled with sleek, contemporary styling makes the door an ideal match for modern decors. This highly insulated door offers a U-Value of 0.15W/m<sup>2</sup>K, which is ideal for those looking to meet the higher levels of the Code for Sustainable Homes.

The revolutionary design of the multi-point catch mechanism means that the GL250-015-PU door can maintain a more effective draught seal around the entire accessible opening, helping to meet the air leakage requirements of Part L of the Building Regulations and preventing the problem of moist warm air entering the roof space causing condensation and heat loss issues.



#### Features - Overview

- Door and frame are fully draught sealed.
- Seals supported by 12 perimeter catches.
- Sliding door catch operated from a single point.
- All hinge, catch and fixing geometry is located outside of the seal, providing no air leakage paths.
- Hinge detail hidden when door is locked.
- Hinge pivot is positioned to maximise opening.
- Innovative design of the hinge makes the door fully removable in seconds.
- Screws fix up into timbers, for fast and simple installation and optimum pressure on frame seal.
- Fully insulated door panel.
- Can be operated by hand or pole (not supplied).
- Suitable for use with loft ladders.

#### Product Specifications

<b>Colour</b>	White
<b>Packing Details</b>	Individually packed in a polythene bag and boxed
<b>Box Weight</b>	6.80 kg
<b>Material</b>	High Impact Polystyrene
<b>Maunfacturing Process</b>	Injection Moulded
<b>Draught Seals</b>	Expanded Polyurethane
<b>Insulation</b>	150mm Polyurethane
<b>U-Value</b>	0.15W/m <sup>2</sup> k

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DRN B.H.

Date 04.10.12

DRG No

**MBP 8302**

Issue

**A**

1 of 3

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

manthorpe building products			Product Information Sheet			
Drop Down Loft Access Door				CODE GL250-015-PU		
<p>The drawing shows three views of the door: a top view, a side view, and a cross-section view. The top view shows a square door with an outer frame and an inner opening. The side view shows the door's profile, including the fitting and opening dimensions. The cross-section view shows the door's construction, including the insulation and the fitting.</p> <p>Top View Dimensions:</p> <ul style="list-style-type: none"><li>686mm OVERALL (width)</li><li>856mm OVERALL (height)</li><li>715mm OPENING (inner width)</li><li>545mm OPENING (inner height)</li></ul> <p>Side View Dimensions:</p> <ul style="list-style-type: none"><li>726mm FITTING (total height)</li><li>22mm (thickness)</li></ul> <p>Bottom View Dimensions:</p> <ul style="list-style-type: none"><li>553mm (min) FITTING (inner width)</li><li>562mm (max) FITTING (outer width)</li><li>52mm (thickness)</li></ul> <p>Door Insulation:</p> <ul style="list-style-type: none"><li>150mm Polyurethane</li><li>U-Value 0.15W/m²k</li></ul>						
MANTHORPE BUILDING PRODUCTS LTD MANTHORPE HOUSE BRITTAIN DRIVE CODNOR GATE BUSINESS PARK RIPLEY DERBYSHIRE DE5 3ND		TEL: 01773 514 200 FAX: 01773 514 262 EMAIL: sales@manthorpe.co.uk WEB www.manthorpe.co.uk	DRN B.H.	Date 04.10.12	DRG No MBP 8302	Issue A 2 of 3

**Drop Down Loft Access Door**

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**Features - Explained**

Many drop down hatches suffer from 'sagging' over time, a problem that can cause the middle of the door to bow away from the draught seal, creating an air leakage path. To prevent this issue, the GL250-015-PU door has 12 independent catch points located around the perimeter of the frame, operated from a single position with a unique sliding mechanism.

With the sliding cover replacing a conventional twist action locking mechanisms on the door, all of the hinge, catch and fixing geometry has been carefully located outside of the draught seal, meaning that there are no holes through the door that could pose an air leakage risk. When the cover is located in the fully closed position it also completely conceals the hinge detail.

The positioning of the doors pivot point is intended to maximise the accessible area available to the user when the door is open and the pioneering hinge design allows for it to be fully removed from the frame quickly and easily for simpler installation and better access with larger insulation options. The fixings for the frame also screw directly up into the ceiling for easier installation, also providing pressure in the optimum direction for the frame to ceiling seal.

The back of the door has been optimised to increase the amount of space available for insulation, allowing the 150mm of polyurethane to cover a greater area within the structural opening to create a better thermal barrier, offering a U-Value of 0.15W/m<sup>2</sup>k.

The catch mechanism can be easily operated with a pole (not supplied) or by hand. The door can also be used in conjunction with the GLL256 and GLL257 loft ladders and can be operated by the pole supplied with them.

**Environmental & Air Leakage Assessment**

The polyurethane insulation used on the back of the GL250-015-PU door has a Global Warming Potential (GWP) of less than 5. The insulation is also CFC/HCFC-free with an Ozone Depletion Potential (ODP) of zero.

The effectiveness of the draught seals on the GL250 have been independently tested by the BRE in accordance with BS EN 13141-1:2004 (test report no. 283-506). The door exceeds the requirements for a "Well Sealed Ceiling" as detailed in BS 5250 with an air leakage rate below 1m<sup>3</sup>/h at a pressure differential of 2 Pa. This door also meets the Building Regulations Part L 'reasonable limit' for the design air permeability of buildings with a rate of less than 10m<sup>3</sup>/h.m<sup>2</sup> at 50Pa.

**References**

Author	Publication
<b>BSI</b>	<b>BS 5250:</b> Control of condensation in buildings. <b>BS 9250:</b> Design of the airtightness of ceilings in pitched roofs.
<b>Building Regulations</b>	<b>Approved Document L1 &amp; L2:</b> Conservation of fuel and power.
<b>DEFRA</b>	<b>Robust Details</b>
<b>NHBC Standards</b>	<b>Technical Guidance 7.2:</b> Pitched Roofs.
<b>BRE</b>	<b>Digest Report 262:</b> Thermal Insulation: Avoiding Risks. <b>Digest Report 443:</b> Conventions for U-Value calculations.

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