

Keeping in the
warmth



Insulated and properly sealed loft ladders can help you to keep in the warmth and reduce your energy costs. This data sheet provides a useful guide about to the what to look for when choosing your new loft ladder. It also includes a quick reference tool for our insulated loft ladder product range.

Thermal Insulation

Thermal insulation is the reduction of heat transfer through objects of differing temperature. A well-insulated loft hatch therefore reduces the heat loss from the warm room into the cooler loft space above.







When considering insulated loft hatches and ladders, you need to pay attention to the U-value. This is a measure of how much heat is lost through the loft hatch by conduction, convection and radiation. A high U-value indicates high heat-loss. A low U-value indicates low heat-loss. As a bench-mark, a solid wall has a U-Value of approximately 2 W/m²K.

For a well-insulated loft hatch and ladder, you should really be looking for a product offering a U-value of less than 1 W/m²K

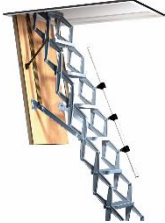

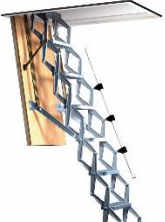



Air permeability

Air permeability of loft hatches relates to the amount of air that will travel through the hatch while in its closed position. The first thing to look for is whether the loft hatch is certified with a Class 4 air permeability rating. Class 4 is the highest rating, so anything certified to this standard is recommended.

Wooden insulated loft ladders

		Type	Operation	U-value (heat transfer coefficient) W/m ² K	Class 4 air permeability certified
Designo		3-part folding	Manual	0.60	Yes
Designo DD		3-part folding	Manual	0.29	Yes
Cadet 3		3-part folding	Manual	0.90	Yes
Quadro		3-part folding & 2-part sliding	Manual	0.77	Yes
Esca 11 ISO-RC		3-part folding	Manual	1.30	Yes
ProfiLine F30/F30 Plus/F60		3-part folding	Manual	0.92	Yes

Aluminium insulated loft ladders

		Type	Operation	U-value (heat transfer coefficient) W/m ² K	Class 4 air permeability certified
Supreme		Concertina/ Retractable	Manual or Electric	0.58	Yes
Supreme DD		Concertina/ Retractable	Manual or Electric	0.28	Yes
Supreme F30		Concertina/ Retractable	Manual or Electric	0.80	Yes
Supreme F30 Steel		Concertina/ Retractable	Manual or Electric	0.57	No
Mini		Concertina/ Retractable	Manual	0.80	Yes
MiniLine F30/F30 Plus/F60		Concertina/ Retractable	Manual	0.92	Yes

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WDL Insulation and sealing tape

To ensure the best possible seal around the outside of the hatch box, you can order your loft ladder from Premier Loft Ladders with WDL insulation and sealing tape. The patented WDL tape is pre-assembled to the hatch box and offers an airtight seal with the building. Made of tear-resistant material, it also provides thermal and acoustic insulation.

WDL sealing tape is fitted as standard to our Designo range of wooden loft ladders. You can also order it with many of our other loft ladders (excluding fire resistant models).



WDL insulation and sealing tape for an airtight connection between the loft ladder hatch box and the building

Passive House (Passivhaus) loft ladders

High thermal insulation and an airtight seal are essential for projects aiming to achieve Passive House standards. Premier Loft Ladders offer a version of the Designo loft ladder certified by the Passivhaus institute. Also available are a couple of special loft ladders offering U-values as low as 0.28 W/m²K, featuring either folding wooden loft ladders (Designo DD) or retractable aluminium stairs (Supreme DD). They feature a secondary upper cover that can be closed immediately after entering the loft. As a result, they help to lock the warmth in the home and also prevent moist air from flowing into the loft and condensing in the cold areas.

Visit our Passive House Applications page on our web site for further information:

www.premierloftladders.co.uk/passive-house-applications/

The
preferred
choice



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