

# Stira Electric Timber Loft Ladders



**SEMI  
ELECTRIC**



## Details

Minimum Loft Opening Size Required: 560 x 1048 mm  
Floor to Ceiling Height: 2.44m - 3.810 m

The Stira Semi Automatic Electric Timber Loft Ladder brings push button automation to the Stira timber loft ladder.

The system features intelligent safety awareness, by constantly measuring its progress the system can recognise when something is jamming or pulling on the trapdoor.

This means if anyone was to accidentally get a finger or hand stuck in the trapdoor while its closing the Stira will know this and perform an emergency stop.

The Stira Semi Automatic Electric Timber Loft Ladder is designed to be a strong domestic attic stairs that will last a lifetime. It has unique design features that allow the stairs to be highly flexible so it can be custom built either for extra high ceilings, extra large trapdoor openings or for tight spaces where walls obstruct the normal use of a folding attic stairs or loft ladder.

## **Outer Frame**

The Stira folding attic stairs features a substantial outer frame which is 108mm x 32mm, this deep frame gives the Stira a solid attachment to the joists in the attic. The outer frames importance is often overlooked but it is essential as this frame will be carrying the weight of the stairs through the hinges and linkage arms, which are the main load bearing parts of any folding stairs or loft ladder.

## **Inner Frame**

The inner frame of the Stira that attaches the ladder to the outer frame is unique to Stira, this rigid frame allows us to vary the opening size of the Stira making it much bigger or smaller without affecting the mechanics of the stairs. As we don't attach the ladder directly to the trapdoor this allows the standard lid of the Stira to be replaced with an alternative lid of the customers choice.

## **Wraparound Hinge**

This hinge on the bottom fold on the ladder . The hinge on the first fold of the ladder is under the most pressure, over time the hinge can slowly be pulled out of the timber by the weight that is put through it. The wraparound overcomes this problem by wrapping around the side stringer of the ladder and being screwed in place on all 3 sides spreading that pressure across a wider area.

## **Airtight Trapdoor**

The Stira trapdoor is now insulated and features a draught seal, this ensures the trapdoor is airtight preventing any unwanted draughts getting in and stops heat from escaping through the Stira trapdoor. In blower tests the Stira trapdoor had a leakage rate of 0.39M3. That's almost half the requirement for a passive house.

## **Timber**

The Stira ladder is made from southern yellow pine sourced from managed forests in North America, this is the same timber used in the construction of timber frame houses. We use SAPS grade timber which is a hard wearing timber which feature minimal knots or defects. Using a strong timber has many benefits over a metal ladder. While the timber is very strong it remains flexible, and unlike with metal ladders when the timber steps bend under weight they will return to their natural state. The metal step will gradually distort more and more over time which will go on to affect other joints in the ladder. The inner and outer frame of the Stira stairs is made from White Deal sourced from managed forests in Northern Europe. This is another strong reliable construction grade timber.

## **Real Steel**

We manufacture most of the the metal parts of our stairs in our factory, we make them out of real steel, we don't use cheap alloys. Our 10 year guarantee means a 10 year relationship with our customer, through this interaction with our customers we have been able to develop and refine each metal part to more reliable, easier to use and nicer to look at.