

TLX Silver in timber frame walls

TLX Silver multi-foil insulation has just been awarded a BBA certificate for use in timber frame and masonry walls. This is the first BBA certificate given to a multi-foil insulation product for use in walls.

How to Use TLX Silver

Conventional insulation such as glass wool or rigid board is fitted between the timber wall studs. TLX Silver is installed across the front of the studs and stapled in place. Vertical battens and plasterboard are fitted. The wall structure is:

- Outer cladding
- Cavity
- Reflective breather membrane
- Plywood sheathing
- Timber studs with insulation
- TLX Silver
- Batten
- Plasterboard



Benefits of TLX Silver

Use of TLX Silver allows the construction of highly energy efficient walls by:

- Improving U value for a given stud depth
- Reducing stud depth required to achieve a given U value
- Allowing glass or mineral wool in place of rigid board between or in front of studs
- TLX Silver is a powerful vapour barrier and eliminates the need to install an additional reflective vapour control layer
- TLX Silver in walls can improve the airtightness of the building.
- The air space between TLX Silver and plasterboard creates a cavity for services

U values of timber frame walls with TLX Silver (U value with reflective vapour control layer in place of TLX Silver in brackets)

Stud depth	Glass wool λ 0.035	Glass wool λ 0.032	Rigid PUR λ 0.023
89mm	0.24 (0.30)	0.23 (0.29)	0.20 (0.25)
140mm	0.19 (0.23)	0.18 (0.22)	0.16 (0.19)

Code for Sustainable Homes

The table shows typical wall U values required to achieve code levels for sustainable homes, and when the code level becomes mandatory:

		Public housing	Private housing
Part L1A	0.25 – 0.30	-	2008
Code level 3	0.20 - 0.23	2008	2010
Code level 4	0.17 - 0.19	2010	2013
Code level 5	0.14 - 0.16	2013	