

New World Timber Frame



Floor Packs





AREAS OF APPLICATION

Studs for highly insulated walls with **reduced thermal bridging**

Joist for **floors** in timber-frame and masonry applications

Rafters for roofs in timber-frame and masonry applications



- Lightweight and dimensionally stable
- Service: design, take offs, extensive technical brochures
- Superior strength and easy installation of services
- Reduces thermal bridging
- Also available as a pre-insulated wall stud
- Easy cutting with hand or machine tools
- Solid timber flanges – dried, machine stress graded and finger jointed. Webs from high grade natural fibreboard
- ETA – European Technical Approval
- National distribution
- FSC® Certified

STEICO joist
I-Joist Building System for floors & roofs

STEICO wall
I-Joist Building System for walls

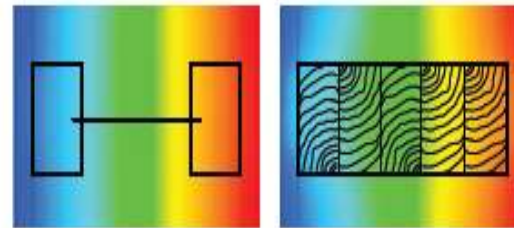


STEICO – LIVING NATURALLY!

STEICO products are innovative building materials that offer long-term performance, increase the comfort of living and help to visibly increase the energy efficiency in buildings. STEICO products are especially economical and environmentally-friendly as they are produced from sustainable resources. Whether for engineered timber elements or insulation materials, roofing boards or wall panels, STEICO offers a suitable product for each building application!

All STEICO products benefit from the properties of the natural materials that they are manufactured from. All products are easy to handle, non-allergenic and durable, i.e. building materials for future generations.

REDUCTION OF THERMAL BRIDGING



Wall section with STEICO I-Joist compared with a solid stud

The more technically advanced insulation materials become, the more focus has to be applied to the structural elements of a construction. In spite of the good structural properties of

wood, solid timber studs and rafters allow heat to pass from the inside to the outside of a wall or roof. This means that they are in effect a thermal bridge and this can be improved.

The I section profiles of the STEICO*joist* and STEICO*wall*, with their reduced cross section of an 8 or 6 mm web, reduce the capacity for a thermal bridge. In addition this leads to a reduction of raw materials in a typical construction of about 50%. Today, the depth of insulation materials required can dictate the overall dimensioning of a structure. The depth of insulation may be reduced by the use of STEICO I-Joist products, by increasing thermal efficiency and raw material usage.

FIRE PERFORMANCE

STEICO*joist* and STEICO*wall* have fire classifications according to EN 1301-1:2002: D-s2,d0. Floor constructions with fire resistance of 30 and 60 minutes are approved. Please contact STEICO Ltd. for further information.

LIGHTWEIGHT IN COMBINATION WITH HIGH BEARING CAPACITY



STEICO*joists* fulfil the demands from house builders for greater clear spans and better dimensional stability, whilst not increasing the size of the cross section of the construction elements. STEICO*joists* have a high strength to weight ratio in relation to its equivalent solid

timber section. Whilst steel, concrete and large section solid timber components require mechanical handling, the STEICO*joists* are up to 50% lighter than solid timber and maybe manually handled. Handling becomes easier, thus erection times are significantly reduced, making extensive labour cost savings.

INSTALLATION OF HOLES



The amount of pipes for plumbing and air conditioning in modern buildings is growing constantly. Installation of services on the intermediate floors can cause problems and can lead to unnecessarily deep floor build ups and increasing costs. Using the STEICO *joist* you can drill certain service access

holes in the web without a reduction of the load bearing capacity of the beam.

STATE OF THE ART CONSTRUCTION SOFTWARE

A bespoke software package for STEICO I-Joist products provides an exceptional technical support service for the user. The software provides engineering calculations, material take offs as well as construction drawings and details. Please contact STEICO Ltd. for further information.



WEYROC PROTECT

The logo for 'RAPID DECK' features the word 'RAPID' in a bold, blue, sans-serif font with a red horizontal line underneath it. To the left of 'RAPID' are three red, slanted rectangular bars of increasing height, resembling a staircase. Below 'RAPID' is the word 'DECK' in a larger, bold, blue, sans-serif font.

FLOORING SYSTEM

INSTALLATION INSTRUCTIONS



The BBA approved "Rapid Deck" flooring system and Weyroc Protect flooring board offers the following benefits:

- Complies with current HSE regulations for floor decking
- Save time and labour costs
- No taping
- Quick and easy to lay
- No need for tools/applicators
- Only 1 row nailed (only 15 nails on an average 80m² plot required)
- No secret or full perimeter nailing
- Certified by the BBA for installation during light rain
- Vastly reduces squeaks often associated with nailed floors
- Up to five times stronger than a nailed fixing
- Can be left exposed to the elements for 42 days once laid



1. Apply a generous bead of Weyroc D4 Adhesive to the top of the timber/engineered joist.

