CONSTRUCTIVE SOLUTION:

Through the use of a timber slab placed above the existing beam, a structural reinforcement which mixes lightness and material compatibility is realized. Thanks to this dry-fixing, the system is lightly invasive and totally reversible.

PRODUCT DESCRIPTION

The self tapping screw VGZ, thanks to the thread running along the full length and through a cross placed installation with “X” configuration, provides an high level of performance as regard resistance and stiffness. In particular, stiffness is the most important feature to be reached in order to guarantee the best efficiency for the reinforcement.

- Concealed, strong and stiff connection
- High resistances with few screws
- Cylindrical head for a concealed penetration
- System tested and studied in collaboration with Trento University
- Ask for your calculation advice to Rothoengineer
CONSTRUCTIVE SOLUTION:

Through the use of a concrete slab placed above the existing beam, a structural reinforcement which provides high resistance and stiffness in both direction of the floor is realized. This system provides also high acoustic performance.

PRODUCT DESCRIPTION

The connectors VB, thanks to the ring stopper and through a cross placed installation with a 45° inclination along the beam in a "X" configuration, provide a very fast and precise assembling without the interruption of the planking. The small diameter and the dry-fixing enhance the system to be lightly invasive and well enough reversible.

- Quick dry-fixing by a standard screwdriver
- Lightly invasive and reversible self-tapping system
- Limited spill thanks to the ring stopper
- Installation with a continuing planking
- Software of calculation online for easy design
**SILENT FLOOR**

**SOUNDPROOFING AGAINST FOOTSTEP NOISE**

**CONSTRUCTIVE SOLUTION:**

Developed for be installed within acoustic finishing systems; intended especially for restoration works with VB fasteners thanks to its bituminous matrix which seals hermetically the hole of connector.

**PRODUCT DESCRIPTION**

Bitumen/synthetic-needle- punched soundproof membrane. Guarantees excellent mechanical characteristics, puncture-proof, protection of underlying floor even during open building site phase.

- **High mechanical strength double-layer, 6 mm thick**
- **High resilience for floating floor insulation**
- **The use of its specific self-adhesive strip is recommended**
- **Perfect water seal due to correct taping**
- **Needle-punching on the underside keeps the product in the original installation position**

**ADDITIONAL PRODUCT BLACK BAND**

Art. code DZ400412

**ADDITIONAL PRODUCT SILENT EDGE**

Art. code DZ45010050
BEAM PROTECT

PROTECTIVE BREATHABLE SYNTHETIC MEMBRANE

CONSTRUCTIVE SOLUTION:

Waterproofing polypropylene membrane which protects timber beam's head against damp, water damage or water rising from concrete. Additionally, the high breathable value of the membrane enhance the humidity dispersal.

- High breathable waterproofing polypropylene membrane (h= 27.5 cm)

- To be used with Flexi Band for a perfect sealing of details

VGZ FLANKED BEAMS

VGZ

FULLY THREADED SCREW WITH CYLINDRICAL HEAD

CONSTRUCTIVE SOLUTION:

The reinforcement of timber beams can be realized through the fixation of another timber beam placed laterally on the side and conveniently jointed. Thanks to the dry-fixing, this system is lightly invasive and totally reversible.

- High resistances with few screws

- Cylindrical head for a concealed penetration
The end part of a timber beam which is directly inserted in the wall is often subjected to durability problems. In extreme cases it is necessary the replacement of the damaged part through a timber prosthetis realized with new wood.

**PRODUCT DESCRIPTION**

- 100% Epoxy adhesive
- Excellent fluidness, wetting properties and adhesiveness
- Different densities and sizes for multiple applications
- Volume inalterability and reliability over time
- Sold by volume
The end part of a timber beam which is directly inserted in the wall is often subjected to durability problems. In many cases it is possible to reconstruct the wood material through steel rods and epoxy resins mixed with other material.

**PRODUCT DESCRIPTION**

- 100% Epoxy adhesive
- Excellent fluidness, wetting properties and adhesiveness
- Different densities and sizes for multiple applications
- Volume inalterability and reliability over time
- Sold by volume
The reinforcement of timber beams can be realized through the fixation of a “steel-reinforced wood board” placed on the strained side of the beam. The wood board is fixed with epoxy adhesive and its efficiency is due to the steel rods.

- Excellent adhesion between steel rod and wood
- Excellent fluidness, wetting properties and adhesiveness