



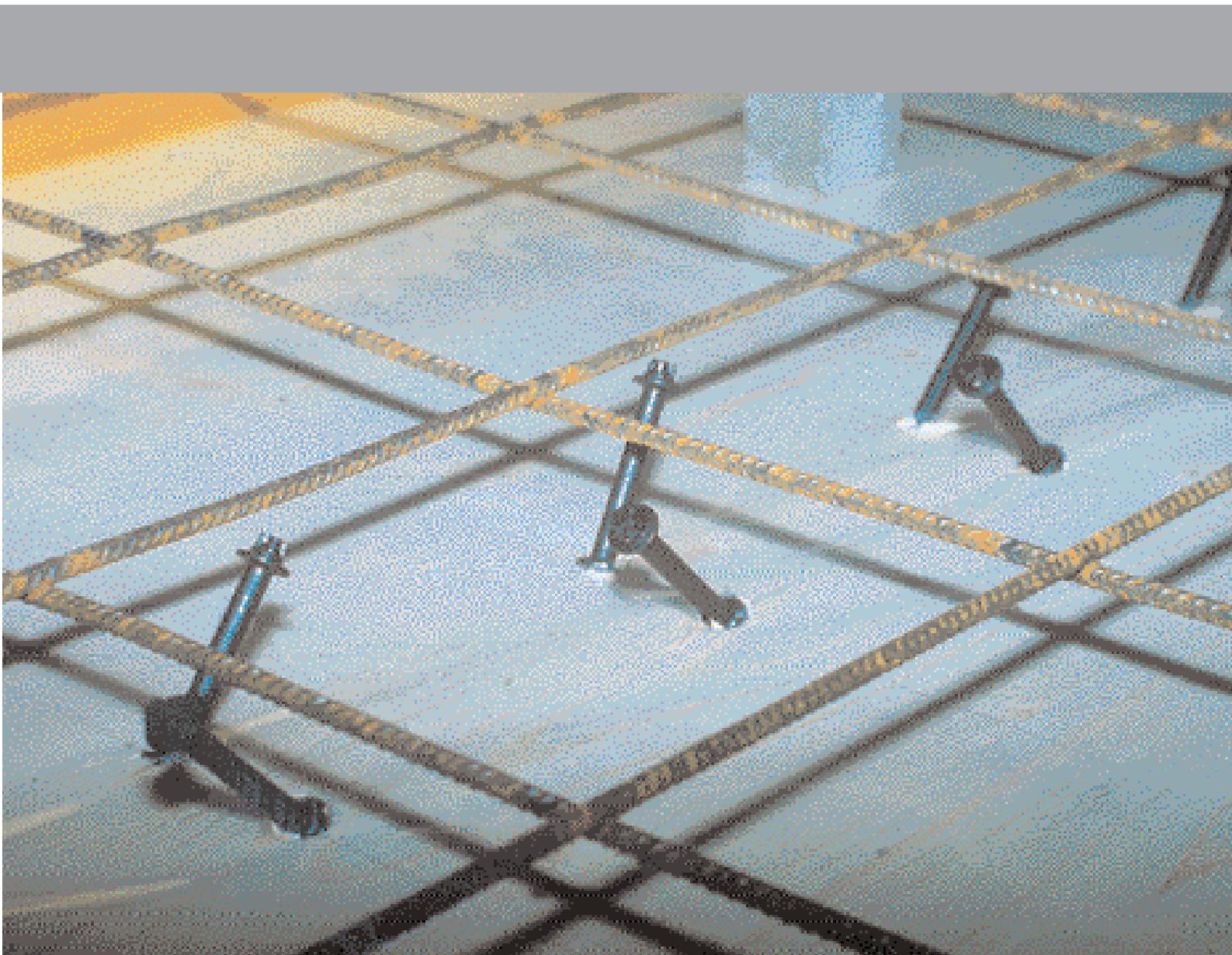
*A patented method for reinforcing
old timber ceilings and fitting new
timber ceilings*

GERMAN INSTITUTE FOR STRUCTU-
RAL ENGINEERING
General building regulatory approval
No. Z-9.1-342

Ordinance of the Municipal Authorities
of the City of Vienna MA 35 - B 378/95

European Patent No. 0432484
and No. 0528450

*Secure, individual and cost-effective:
timber/concrete joints by SFS intec*



With design program for new buildings and renovation projects: the SFS VB jointing system makes its mark!

More and more planners (with more than 500 projects successfully completed in Europe) place their confidence in the advantages and the additional security of the SFS timber/concrete jointing approach. Besides the international approvals and the outstanding results of tests conducted by leading universities, the enormous know-how of the SFS Group is also evident in the new software. The successful global operations of this corporate group guarantee maximum security for each and every user.

***The system for new buildings and renovation projects.
Your gain: cost economies of up to 40%.***

The timber/concrete joint is a system construction method in which a thin concrete slab (6 cm upwards) is rigidly attached to a timber purlin. In this case the timber beam absorbs the tensile forces, while the concrete acts as a pressure plate. When old buildings are being renovated, existing ceilings can thus be retained without any restrictions. The structure is reinforced and troublesome sound problems are resolved. According to independent calculations, economies of up to 40% can be achieved compared with conventional solutions. In new buildings the aesthetic aspects of a wooden ceiling are complemented by the advantages of concrete in terms of structural engineering and sound insulation to create an innovative ceiling support structure.



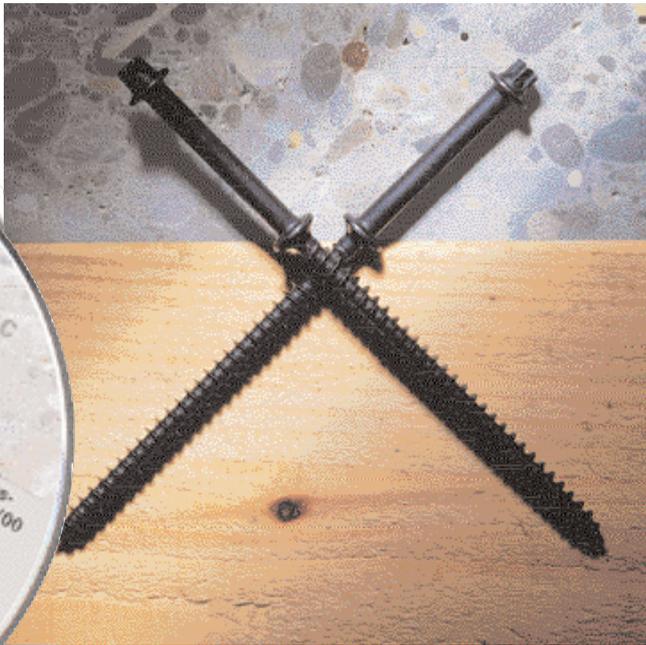
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Software that's got what it takes: innovative ceilings computed within seconds.

Simply enter the combination of materials, the cross-section geometry, the span and the loads – and away it goes. The program automatically re-calculates each input, so that various options can also be checked easily. The result is a clearly laid-out installation plan (incl. parts list) and a cross section and longitudinal section true to scale. The cross section and longitudinal section can be exported in DXF format for drawing up plans efficiently.

To summarise: a program which makes a composite ceiling a genuine alternative to conventional structures in the practical day-to-day work of planners, architects and structural engineers.





**Innovative approaches make their mark:
customers report on VB**



Thomas Jundt (civil engineer)
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«Innovative approaches are required to complete a complex total renovation of 11 apartments (totalling 780 m²) to a tight timetable. The jointing system from SFS enabled us to save on time, personnel and nerves. The terrific design program was also a great help. We shall also rely on this system in future.»

The advantages in summary:

- Easy, fast, precise planning with comprehensive system software
- Cost economies of up to 40% (no demolition, easier preparatory work)
- Ceilings which are worth preserving and healthy timber beams remain in their original condition
- Sound insulation and fire protection as well as load-bearing capacity are improved
- Construction time reduced by up to 50%
- Uninterrupted use of the building
- Advice at short notice and rapid delivery service



**Albrecht Neubert
(engineer/architect)**
Flandrische Strasse 4
D-50674 Cologne
Germany



«Only the SFS VB jointing system enabled us to meet the sound insulation requirements imposed and thus produce high quality residential premises. We were also able to choose a much more economical concept for the further structure of the floor. This technological and economically convincing system will also assure us of an edge over our competitors in future projects.»



**Herbert Günther
(engineer/architect)**
Schwarzseestrasse 1
A-6370 Kitzbühel
Austria



«The old courthouse in Kitzbühel is a building with a wealth of tradition. With a system enabling us to retain the ceilings in their entirety and meeting requirements in terms of price, installation times and sound insulation, the choice was easy for us. The jointing element from SFS has the best characteristics as regards quality, cost and security. The choice has paid off!»

The SFS-VB jointing system: 5 elements for your security!

1. Personal advice

Our specialists and engineers help you with their international experience and soundly based expertise in system applications. Set us a challenge – it's worth it.



2. Software that's got what it takes

Just insert the CD and the design program (incl. tendering text, approval and technical documentation) is installed automatically. After the parameters are entered, all calculations are performed within seconds. The precise installation plan and the parts list can then be printed out.



3. The jointing element with setting tool

The SFS-VB 48-7,5 x 100 mm is a special fastener from the SFS Group's own production plant. Without pilot drilling, the jointing element is inserted directly into the timber beam using a Torx power drive. The CF 40-VB setting tool is equipped with a special depth stop for slanting and right-angled applications. Setting tool and fastener



are ideally coordinated and have proved their qualities in severe day-to-day operating conditions.

4. Comprehensive documentary material

Ask for our comprehensive documentary material. We will be pleased to forward you approval and test reports. We can also advise you of reference premises in your vicinity. Just telephone us – we'll provide you with comprehensive information.

5. The security of a strong partner

Fasteners are a matter of confidence. The SFS Group, with over 3600 employees worldwide, is a strong partner, guaranteeing optimum security even with difficult solutions. In-house testing facilities, worldwide contacts with government agencies and innovation centres as well as support on the building site itself give SFS customers the confidence and security of working with the right partner.

Conventional method:	Demolition and disposal of material	Cost of materials	Preparation for concrete pouring	Reinforcing and concrete pouring
SFS intec solution:	Preparatory work	Cost of materials	Setting jointing elements and concrete pouring	Your gain: up to 40%

Secure, individual and cost-effective. It pays off!

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