Glass wool insulation materials ...warmly recommended!
The new SAGLAN glasswool

The trend for better and better lambda values and more ecological insulation keeps going on, handling-friendly qualities are important as well. So we made the decision to use a environment-friendly binder for our SAGLAN glasswool production. With this new ecological binder the SAGLAN glasswool doesn’t itch, is odourless and there is no dust raising. That means insulating is enjoyable again!

SAGLAN Top Services

Pickup service
Customers can pick up their orders directly at the factory.

Delivery service
The outstanding SAGLAN delivery service – we deliver all SAGER insulation materials directly to your construction site, operation center or warehouse!

Order support service
Upon arrangement, we offer an on-site service to measure the objects for ordering our products.

Swiss Quality
Our products, which are economic in the medium and long run, are distinguished by extreme longevity and highly resistant to damage. The excellent thermal insulation properties result in massive energy cost savings. The fabrication and application of all products complies with the decisive standards.

The SAGLAN products bear the quality seal RAL «Products made of mineral wool» and EUCEB. They are biosoluble and do not harm your health or the environment.

Note: eco-bau-labels are application-specific.
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Application fields

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Data sheets, certificates and construction details are available in the Internet at www.sager.ch
Production of SAGLAN glass wool from quartz sand

Melting the mass to obtain liquid glass
In an electronically controlled mixing facility, glass shards, quartz sand, lime, dolomite, nephelite, soda and sodium borate are mixed according to a formula designed especially for the facility. The homogeneous mix is then melted in a melting furnace with controllable electrodes at a temperature of approx. 1400 °C.

Production of glass fibres and glass wool
The free-falling glass strand with a temperature of approx. 1100 °C reaches the fibrillation machine. The glass is defibrated in high-temperature centrifuges with punched centrifugal disks. The quality of the glass fibres is controlled on the centrifugal disks by adjusting the gas burners and recorded via the parameter Micronair. After a short hardening track, the fibres are sprayed with the binder and then transported to the dropshaft.

Hardening furnace
The glass fibre felt reaches the hardening furnace where the resin hardens at approx. 200 °C. Afterwards, the characteristic yellow colour of the end product results.

Linings/coatings
Possible linings/coatings are glass fibre fleeces in different colours, glass fibre fabric, Kraft paper, aluminium Kraft paper, aluminium foil or PE foils.

Packaging
Disks are stacked to packages in an automatic disk stacker and shrink-wrapped with PE foil. Rolls are automatically compressed in the roll machine and shrink-wrapped as well in PE foil. The individual packages/rolls can be compiled to multi-packages and then put on pallets.
SAGLAN insulation materials are made of natural quartz sand, ageing-resistant and do not rot.

SAGLAN insulation materials are produced in elastic up to pressure-resistant slabs.

SAGLAN insulation materials are incombustible.

SAGLAN contribute effectively to improving sound insulation.

SAGLAN substantially reduce thermal losses. This saves energy costs and protects our environment.

SAGLAN insulation materials are water repellent and resistant to moisture.

SAGLAN insulation materials are dimensionally stable. They consist of long fibres and are therefore very elastic.

SAGLAN insulation materials are easy to process and suited for all installation types.

SAGLAN insulation materials are open for diffusion.

SAGLAN substantially reduce thermal losses. This saves energy costs and protects our environment.

Unlined SAGLAN insulation materials are dimensionally stable. They consist of long fibres and are therefore very elastic.

Unlined SAGLAN insulation materials are incombustible.

Unlined SAGLAN insulation materials are open for diffusion.
**Product properties of SAGLAN – technical data**

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tr>
<td>Thermal conductivity $\lambda_{D}$</td>
<td>0.030 bis 0.035 W/mK</td>
</tr>
<tr>
<td>Temperature resistance</td>
<td>250 °C</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>RF1 / A1</td>
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<tr>
<td>Steam conductivity $\lambda_{R}$</td>
<td>0.32 mg/mh Pa</td>
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<tr>
<td>Diffusion resistance factor $\mu$</td>
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<tr>
<td>Specific thermal capacity $c$</td>
<td>approx. 1030 J/kg K</td>
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**Coatings**

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<th>Name</th>
<th>Material</th>
<th>Reaction to fire</th>
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<tr>
<td>Vn 35</td>
<td>Natural glass fibre fleece, 35 g/m²</td>
<td>RF1 / A1</td>
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<tr>
<td>Vn 100</td>
<td>Natural glass fibre fleece, 100 g/m²</td>
<td>RF1 / A1</td>
</tr>
<tr>
<td>Vnl</td>
<td>Natural glass fibre fleece, long. reinforced</td>
<td>RF1 / A1</td>
</tr>
<tr>
<td>Vs</td>
<td>Black glass fibre fleece</td>
<td>RF1 / A1</td>
</tr>
<tr>
<td>Vs  / Vsl</td>
<td>Black glass fibre fleece, long. reinforced</td>
<td>RF1 / A1</td>
</tr>
<tr>
<td>G</td>
<td>Black glass fabric</td>
<td>RF1 / A1</td>
</tr>
<tr>
<td>A</td>
<td>Pure aluminium, gridded, flame retardant</td>
<td>RF1 / A1</td>
</tr>
<tr>
<td>F</td>
<td>Matte black PE foil*</td>
<td>- / -</td>
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* max. 900 mm wide, t = 0.04 mm

Other coatings on request

- Natural glass fibre fleece, 35 g/m²
- Natural glass fibre fleece, 100 g/m²
- Natural glass fibre fleece, long. reinforced
- Black glass fibre fleece / long. reinforced
- Black glass fabric, treated against fungicide infestation
- Pure aluminium foil with grid reinforcement
- Sealed in matte black or white PE foil (max. 900 mm wide)
Universal thermal and acoustic insulation, e.g. for:

- rear-ventilated facades
- cavity walls
- rafters (wallisian roof)
- between and under rafters
- wood / metal construction
- renovations

**SAGLAN (030) FA 50 Carbolane / Vs (with black fleece)**

Application field / properties
Rigid facade insulation slabs, completely water-repellent, with one-sided line marking (100 x 100 mm) to make cutting easier. Thermal and sound insulation for rear-ventilated facades. Also applicable in wood and metal construction.

Technical parameters
- Bulk density $\rho$: approx. 48 kg/m$^3$
- Thermal conductivity $\lambda_D$: 0.030 W/mK
- Reaction to fire: RF1 / A1
- Format: 1250 x 600 mm or 1000 x 600 mm on request (Thicknesses 30 – 280 mm)

**SAGLAN (032) FA 40**

Application field / properties
Rigid facade insulation slabs, completely water-repellent, with one-sided line marking (100 x 100 mm) to make cutting easier. Thermal and sound insulation for rear-ventilated facades, cavity walls or for rafter roofs on the timbering e.g. «wallisian roof».

Technical parameters
- Bulk density $\rho$: approx. 38 kg/m$^3$
- Thermal conductivity $\lambda_D$: 0.032 W/mK
- Reaction to fire: RF1 / A1
- Format: 1250 x 600 mm or 1000 x 600 mm (Thicknesses 30 – 260 mm)

**SAGLAN (032) FA Light / Vs (with black fleece)**

Application field / properties
Semi-rigid facade insulation slabs, completely water-repellent, with one-sided line marking (100 x 100 mm) to make cutting easier. Thermal and sound insulation for rear-ventilated facades or cavity walls.

Vs = one side with black glass fleece (for trickle protection or temporary raincover)

Technical parameters
- Bulk density $\rho$: approx. 30 kg/m$^3$
- Thermal conductivity $\lambda_D$: 0.032 W/mK
- Reaction to fire: RF1 / A1
- Format: 1250 x 600 mm or 1000 x 600 mm (FA Light Thicknesses 30 – 300 mm)
  (FA Light Vs Thicknesses 60 – 260 mm)
Thermal and acoustic insulation, e. g. for...

- metal cassettes
- module construction
- facade insulation

**Cassette slabs**

**SAGLAN (032) SK 32**

**Application field / properties**

**Technical parameters**
- Bulk density $\rho$: approx. 30 kg/m³
- Thermal conductivity $\lambda$: 0.032 W/mK
- Reaction to fire: RF1 / A1
- Slab length: 1250 mm
- Slab width: 405, 505, 605 mm
- Slab thicknesses: 60 – 200 mm

**SAGLAN (032) SK 40**

**Application field / properties**
Rigid insulation slabs for cassettes and module construction. Continuously water-repellent.

**Technical parameters**
- Bulk density $\rho$: approx. 38 kg/m³
- Thermal conductivity $\lambda$: 0.032 W/mK
- Reaction to fire: RF1 / A1
- Slab length: 1250 mm
- Slab width: 405, 505, 605 mm
- Slab thicknesses: 60 – 200 mm
Application field / properties
Rigid thermal insulation slabs for cassettes with distance drilling screw and low heat bridge forming attachment insulation from 40 to 100 mm. Grooved on one side with distance marking. Face with natural glass fleece.

Technical parameters
- Bulk density $\rho$: approx. 30 kg/m$^3$
- Thermal conductivity $\lambda_D$: 0.032 W/mK
- Reaction to fire: RF1 / A1
- Slab length: 1250 mm
- Slab width: 405, 505, 605 mm
- Slab thicknesses: 120 – 240 mm

Insulation for Cassettes
- Fleece on the face
- One-sided groove on the long side
  (at a distance of $y$ from the edge with fleece)
- $x =$ cassette, $y =$ attachment insulation

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</table>
Universal thermal and acoustic insulation, e.g. for...

- building/partition walls
- wooden beam ceilings
- wooden walls
- cavity walls
- renovations

**SAGLAN (035) SB 22**

Application field/properties
Semi-rigid insulation slabs for masonry and wooden constructions. Large variety of application possibilities, e.g. in walls, in cavity wall or wooden walls, in building and interior walls as well as floors and ceilings, especially suited for plaster ceilings and wooden beam ceilings.

Technical parameters
- Bulk density $\rho$: approx. 20 kg/m³
- Thermal conductivity $\lambda_D$: 0.035 W/mK
- Reaction to fire: RF1 / A1
- Formats: 1250 x 600 mm (Thicknesses 30 – 300 mm)
  1250 x 575 mm (Thicknesses 60 – 300 mm)

**SAGLAN (031) SB 55**

Application field/properties
Rigid insulation slabs for facades and roofs. Continuously water-repellent. Thermal and sound insulation for rear-ventilated facades or interior walls.
Roofs: For rafter roofs on the timbering, for concrete or high pitched hall roofs on profile sheet metal.

Technical parameters
- Bulk density $\rho$: approx. 52 kg/m³
- Thermal conductivity $\lambda_D$: 0.031 W/mK
- Reaction to fire: RF1 / A1
- Format: 1250 x 600 mm (Thicknesses 30 – 180 mm)
Rafter slabs

Thermal and acoustic insulation, e.g. for...
- between rafters
- wooden constructions
- wood element construction
- renovations

SAGLAN (035) SR 22

Application field / properties
Semi-rigid slabs, self-clamping between rafters, stay in place without additional attachment. The main application field is between the rafters with regular gaps, on wooden constructions or between wooden beams.

Technical parameters
- Bulk density $\rho$: approx. 19 kg/m$^3$
- Thermal conductivity $\lambda_D$: 0.035 W/mK
- Reaction to fire: RF1 / A1
- Slab length: 1250 mm
- Slab width: as of 400 – 1000 mm possible for each 5 mm!
- Thicknesses: 60 – 300 mm

SAGLAN (032) SR 30

Application field / properties
Semi-rigid slabs, self-clamping between rafters, stay in place without additional attachment. The main application field is between the rafters with regular gaps, on wooden constructions or between wooden beams.

Technical parameters
- Bulk density $\rho$: approx. 30 kg/m$^3$
- Thermal conductivity $\lambda_D$: 0.032 W/mK
- Reaction to fire: RF1 / A1
- Slab length: 1250 mm
- Slab width: as of 400 – 1000 mm possible for each 5 mm!
- Thicknesses: 60 – 260 mm

Accessories:
The SAGER System: adhesive tapes, sealants, foils and cover sheets.
SAGLAN (035) SBR rafters (Width made to measure)

**Application field / properties**
Self-clamping rolls without lining, with horizontal line marking to facilitate cutting. Very versatile application between roof rafters, beam ceilings, rack constructions of interior and exterior walls and intermediate ceilings or for wood element construction. SBR rafters = Roll width made to measure.

**Technical parameters**
- **Bulk density ρ:** approx. 20 kg/m³
- **Thermal conductivity λ:** 0.035 W/mK
- **Reaction to fire:** RF1 / A1
- **Roll width:** 1250, 575 mm (Thicknesses: 50 – 260 mm)
- **Rafter roll width:** as of 200 – 1000 mm (Thicknesses: 50 – 260 mm)

SAGLAN (032) SBR plus Vnl (with nature fleece, long. reinforced) (Width made to measure)

**Application field / properties**
Self-clamping rolls without lining, with horizontal line marking to facilitate cutting. Very versatile application between roof rafters, beam ceilings, rack constructions of interior and exterior walls and intermediate ceilings or for wood element construction. SBR rafters Vnl = Roll width made to measure.

**Technical parameters**
- **Bulk density ρ:** approx. 30 kg/m³
- **Thermal conductivity λ:** 0.032 W/mK
- **Reaction to fire:** RF1 / A1
- **Roll width:** 1250 mm (Thicknesses: 60 – 200 mm)
- **Rafter roll width:** as of 300 – 1000 mm (Thicknesses: 60 – 200 mm)
Thermal and acoustic insulation, e.g. for:
• Partition walls
• dry construction

**SAGLAN (035) TC**

**Application field / properties**
Sound insulation slabs for lightweight construction partition walls.

**Technical parameters**
- Bulk density $\rho$: approx. 18 – 20 kg/m$^3$
- Thermal conductivity $\lambda_D$: 0.035 W/mK
- Reaction to fire: RF1 / A1
- Format: 1010 x 630 mm (Thicknesses 45 – 120 mm)

**SAGLAN (038) TCR Vnl** (with nature fleece, long. reinforced)

**Application field / properties**
Sound insulation rolls for lightweight construction partition walls, with nature fleece, longitudinal reinforced.

**Technical parameters**
- Bulk density $\rho$: approx. 15 – 16 kg/m$^3$
- Thermal conductivity $\lambda_D$: 0.038 W/mK
- Reaction to fire: RF1 / A1
- Roll width: 2 x 630 mm (Dicken 45 – 120 mm)

Available at SAGER: best wood SCHNEIDER wood fibre insulation products
Pressure-resistant thermal and acoustic insulation, e.g. for...

- steep roof
- plaster floors
- roofs on profile sheet metal

**SAGLAN (035) DF 70**

**Application field / properties**
Pressure-resistant insulation slabs for high pitched roof insulation with visible rafters and accessible plaster floors beneath wooden boards or chipboard. Also possible with concrete or high pitched hall ceilings or flat hall ceilings on profile sheet metal.

**Technical parameters**
- **Bulk density** $\rho$: approx. 68 kg/m$^3$
- **Thermal conductivity** $\lambda$: 0.035 W/mK
- **Reaction to fire**: RF1 / A1
- **Compressive stress** at 10% compression:
  - 60 – 80 mm: > 15 kPa (= 1500 kg/m$^2$)
  - 100 – 220 mm: > 20 kPa (= 2000 kg/m$^2$)
- **Format**: 1250 x 600 mm (Thicknesses 60 – 220 mm)
Impact sound slabs/strips

Pressure-resistant thermal and impact sound insulation, e.g. for...
- floors
- front casing

**SAGLAN (031) ST**

**Application field / properties**
Impact sound and thermal insulation beneath floating floors. Front casing for ribbed metal sheet facades.

**Technical parameters**
- **Bulk density** $\rho$: approx. 75 kg/m$^3$
- **Thermal conductivity** $\lambda$: 0.031 W/mK
- **Reaction to fire**: RF1 / A1
- **Compressive stress at 10% compression**: $> 2$ kPa (= 200 kg/m$^2$ or 0.002 N/mm$^2$)
- **Format**: 1250 x 600 mm
  (Thicknesses 12/10, 15/12, 20/17, 25/22, 30/27*)
  * 1. number = thickness
  * 2. number = thickness is installed, fully strained state in the floor

**SAGLAN Strips**

**Application field / properties**
Strips in rolls with one-sided glass fibre fleece for separating the floor and the wall.
- **Roll length**: 25 m
- **Roll width**: 120, 150, 180 mm
- **Thickness**: 10 mm
ISO-SWISS Ceiling slabs

Application field / properties
Ceiling slabs, coated on one side and around the edges with a glass fibre fabric*. Suited for basements, garages and industrial applications. Visible and invisible installation directly on the underground from below.

Technical parameters
- Bulk density $\rho$: approx. 52 kg/m³
- Thermal conductivity $\lambda_D$: 0.031 W/mK
- Reaction to fire: RF1 / A1
- Formats: 1500 x 600 mm (Thicknesses: 20 – 200 mm)

*Available with fabric white (Gw), grey (Gg) and black (Gs)

Installation with glue for acoustic applications (Thickness max. 40 mm)

Hidden installation width insulation mandrills

ISO-SWISS ceiling slabs are attached with retainer claws. The retainer claws are no longer visible after installation.

Attaching the insulation slab and pressing the clamp in the slab. The clamps consist of galvanised sheet steel. 4 to 5 retainer claws are required per slab.

Drilling a hole, knocking in the insulation mandrill and then angling a straight flap 90°.

Attaching the next insulation slab on the clamp, etc.
Acoustic slabs

Sound insulation and absorption, e.g. for:
- acoustic ceilings
- wooden beam ceilings
- air conditioning ducts

**SA 25 and SA 25 Vs** (with black fleece)

**Application field / properties**
Acoustic slabs for optimum sound insulation and sound absorption. As coating for acoustic ceilings and below wooden beam ceilings between storeys, air conditioning ducts to a limited extent.

SA 25 Vs = One side with black glass fibre fleece.

**Technical parameters**
- **Bulk density** $\rho$: approx. 25 kg/m³
- **Thermal conductivity** $\lambda_D$: 0.035 W/mK
- **Reaction to fire**: RF1 / A1
- **Format**: 1250 x 600 mm
  - (SA 25 Thicknesses 20 – 70 mm)
  - (SA 25 Vs Thicknesses 20, 25, 30 mm)

**SA 55 and SA 55 Vs** (with black fleece)

**Application field / properties**
Acoustic slabs for optimum sound insulation and sound absorption. As coating for acoustic ceilings and below wooden beam ceilings between storeys, air conditioning ducts to a limited extent.

SA 55 Vs = One side with black glass fibre fleece.

**Technical parameters**
- **Bulk density** $\rho$: approx. 52 kg/m³
- **Thermal conductivity** $\lambda_D$: 0.031 W/mK
- **Reaction to fire**: RF1 / A1
- **Format**: 1250 x 600 mm
  - (SA 55 Thicknesses 20 – 60 mm)
  - (SA 55 Vs Thicknesses 20 – 60 mm)
Thermal and acoustic insulation, e. g. for...
- industrial applications
- ventilation ducts
- large containers
- acoustic ceilings

**SAGLAN (035) SI 25**

**Application field / properties**
Felt in rolls, unlined, for ventilation ducts, acoustic ceilings or interior walls.

**Technical parameters**
- Bulk density $\rho$: approx. 25 kg/m$^3$
- Thermal conductivity $\lambda$: 0.035 W/mK
- Reaction to fire: RF1 / A1
- Standard roll width: 1250 mm (Thicknesses: 20 – 50 mm)
  also available in thicknesses 300, 400, 600, 625 mm

**SAGLAN (035) SI 25 A (with pure aluminium, gridded)**

**Application field / properties**
Felt in rolls, with gridded aluminium lining on one side. Thermal insulation for ventilation ducts, pipes with large diameters or large, round containers.

**Technical parameters**
- Bulk density $\rho$: approx. 25 kg/m$^3$
- Thermal conductivity $\lambda$: 0.035 W/mK
- Reaction to fire: RF1 / A1
- Roll width: 1200 mm (Thicknesses: 25 – 50 mm)

**SAGLAN (032) SI 30 Vsl (with black fleece, long. reinforced)**

**Application field / properties**
Felt in rolls, lined with gridded black fleece on one side for air ventilation ducts.

**Technical parameters**
- Bulk density $\rho$: approx. 30 kg/m$^3$
- Thermal conductivity $\lambda$: 0.032 W/mK
- Reaction to fire: RF1 / A1
- Roll width: 1200 mm (Thicknesses: 15, 25 mm)
Modern insulation has a name

The histories of the successful Swiss premium brand and that of Sager AG are closely connected up to the present. It all started in 1949 in Switzerland in the Aargau community of Dürenäsch. The family-run company is still an independent and important employer in the region today and a decisive driving force in the field of insulation. Sager AG is a reliable contact throughout Switzerland and a select partner in large parts of Europe.

1949 Takeover of the first cork factory in Switzerland by Sager+Cie
1954 Start of production of SAGEX as first supplier of polystyrene insulation slabs in Switzerland
1978 Start of glass wool production by the name of SAGLAN
1999 New glass wool facility that allows an even more flexible production and thus tailor made
2001 Commissioning of the innovative 3D cutting facility for SAGEX
2008 The business sections SAGER insulation material and polymer profiles are converted to independent shareholder companies
2008 Start of production of the pipe section range PIPELANE for building technology and industrial facilities
2010 Production of SAGEX Zebra facade insulation slabs
2011 New building and inauguration of the SAGER administration building
2014 New SAGEX Zebra facility (fully automated)
2018 SAGLAN goes eco – with new binder

The three product lines of SAGER

**SAGLAN**
Better insulation is more important than ever these days – and our SAGLAN glass wool made of natural quartz sand is the optimum insulation material for construction in Minergie. SAGLAN has outstanding sound and thermal insulation properties. The SAGLAN cutting service is very valuable and covers large insulation thicknesses up to 300 mm. All products can be lined with different coatings.

**SAGEX**
The brand SAGEX is the epitome for expanded polystyrene. The building construction and civil engineering industry cannot do without SAGEX. Its application fields are manifold and it helps to solve almost any thermal insulation problem. Besides the white SAGEX, we also produce dark grey SAGEX Nero, an advanced development with even better insulation properties.

**PIPELANE**
After all, each system is only as good as the technical insulation of its pipelines. Whether for heating systems, warm water pipes, industrial facilities or air conditioning ducts – PIPELANE ensures thermal and sound insulation as well as fire protection. The outstanding material properties ensure reliable and permanent insulation and allow full utilisation of available energy savings potentials. PIPELANE is available with or without aluminium lining.
Insulation products by SAGER are the perfect solution for your high demands. With our long-standing experience with glass wool as an insulation material, we are your competent partner to cover all your special needs.

- Our product quality gives builder-owners, planners and processors the necessary security for handling the technical insulation.
- Our unique service will convince you.

Our SAGLAN insulation slabs and rolls are made of natural quartz sand and are therefore resistant to ageing and rotting. They have outstanding material properties, are water-repellent, moisture-resistant, dimensionally stable and highly secure in case of a fire. At the same time, glass wool is light and elastic. They do not impair your health due to their high biosolubility, which is confirmed by the quality seals EUCEB and RAL.

SAGER is the Swiss premium brand for innovative thermal and sound insulation. We offer custom-tailored solutions as well as a fast and reliable service. SAGER represents more living comfort and high energy efficiency, protects the environment and helps to save costs.

- Individually cut to specifications
- High quality
- Sustainable products
- Unbeatable service
- Reliable and customer-oriented
- International certifications
- Strategic partner and memberships

The notices, suggestions and examples contained in this publication are based on our present state of knowledge and refer to normal application cases often encountered in practice. It is the responsibility of the planners to take all influences into account and apply our specifications accordingly. We cannot assume any responsibility for individual cases with this publication.

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