

Best kept secret

The foundation of modern rooms: Dry construction with Rigidur flooring elements

No matter whether parquet, laminate, carpet, tiling or vinyl: if you are aiming to discover the true strengths of a floor, you must first uncover the underlying secret: a secure foundation that underlies the quality of floor construction: **Rigidur flooring elements.**

The **Rigidur flooring system** with its optimally tailored system components is the ideal foundation for all floors – a flooring solution that opens up the 3rd dimension in dry construction alongside walls and ceilings.

So when designing modern rooms take a 360 perspective and start your planning by focusing on the floor.



The secret powers under attractive floors

Rigidur flooring elements' strengths may be hidden from view but you can feel the benefit in every step you take. The Rigidur flooring system fulfils all the demands on a high-quality, load-bearing foundation:

- For new builds, renovations and refurbishment of old buildings
- Easy installation thanks to prefabricated elements with rebate edges
- Ideally suited for fire protection requirements - especially for wooden beam ceilings
- Optionally available with laminating, e.g. for high footfall insulation requirements
- Problem-free levelling with Rigidur levelling compound
- High surface hardness (35 N/mm²), suitable for chair casters



✓ Suitable for all floor coverings, as well as for under-floor heating systems (unlaminated flooring elements)

✓ Suitable for wet rooms



✓ Meets noise / heat insulation and fire protection requirements

✓ Low static load for existing ceilings



✓ Quick, clean and dry installation

✓ Low installation height



✓ Contains no hazardous substances, ecological building certificate

Rigips information

All special processing- and laying specifications as well as detailed system recommendations for floor coverings and solutions for all areas of application can be found in the "Floor installation guidelines Rigidur" which can be downloaded at rigidur.com/flooring



Sustainably good

Rigidur gypsum fibreboards and adhesives have been awarded the „tested and recommended“ seal of approval by the Institute for Building Biology (IBR) in Rosenheim. Details and certificates can be found at: rigidur.com/flooring. An Environmental Product Declaration (EPD) is available for this product and can be downloaded at: rigidur.com/flooring.

Rigidur flooring elements – a system perfectly put together

Rigidur flooring elements are safe, high load bearing, flexible and less time consuming to lay than conventional wet screeds. Thanks to the specially developed double-strand nozzle for our **Rigidur screed adhesive**, laying is quick, clean and efficient.

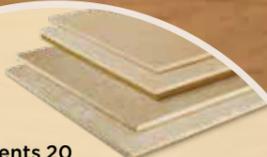
The tested system also includes: **Rigips mineral wool edge insulation strips**, **Rigidur levelling compound** and **Rigidur drywall screws**.



Rigips mineral wool edge insulation strips
For acoustic decoupling from adjacent components:
packet of 60 pieces
format: 10 × 75 × 1,250 mm



Rigidur levelling compound
For levelling out floor unevenness or for adjustment of existing floor heights: 50 l/ sack



Rigidur flooring elements 20
Pre-primed gypsum fibreboards with rebate edges, also suitable for under-floor heating systems:
format: L 1,500 x W 500 x T 20 mm

Rigidur flooring elements 30 MW*
With mineral wool lamination on the reverse: for high fire protection requirements and good sound insulation properties:
format: L 1,500 x W 500 x T 30 mm



Rigidur Nature Line screed adhesive
For bonding of rebate edges and edge areas:
1 kg/ bottle with special double-strand nozzle with handy application angle



Rigidur drywall screws 3.9 × 19 mm
For secure fastening in rebate edges and edge areas:
box: 1,000 pieces



Possible application

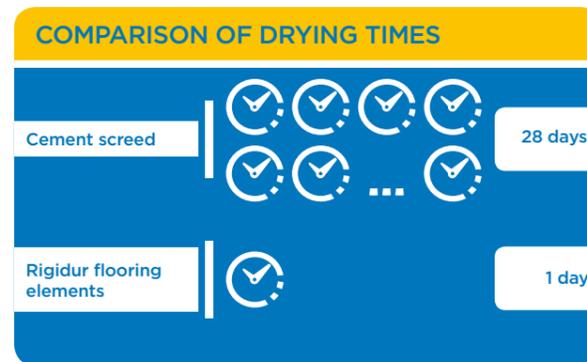
Ideal for wet rooms and under-floor heating

A fact that should no longer be kept secret: **Rigidur flooring elements** are perfectly suited for all wet rooms such as bathrooms and kitchens. Regardless of whether in private housing or public buildings such as hospitals, nursery schools or restaurants, the Rigidur flooring system not only meets the requirements of wet rooms, its secret should be shared for underfloor heating systems, too.



Shorter drying times mean you can move in quicker

One of the outstanding advantages of the **Rigidur flooring system** compared to conventional screed is the extremely short construction time. While cement screeds require approx. 28 days to dry out because of their high moisture, for dry screeds it is possible to lay floor coverings as soon as 24 hours after construction. So move in faster with dry screed.

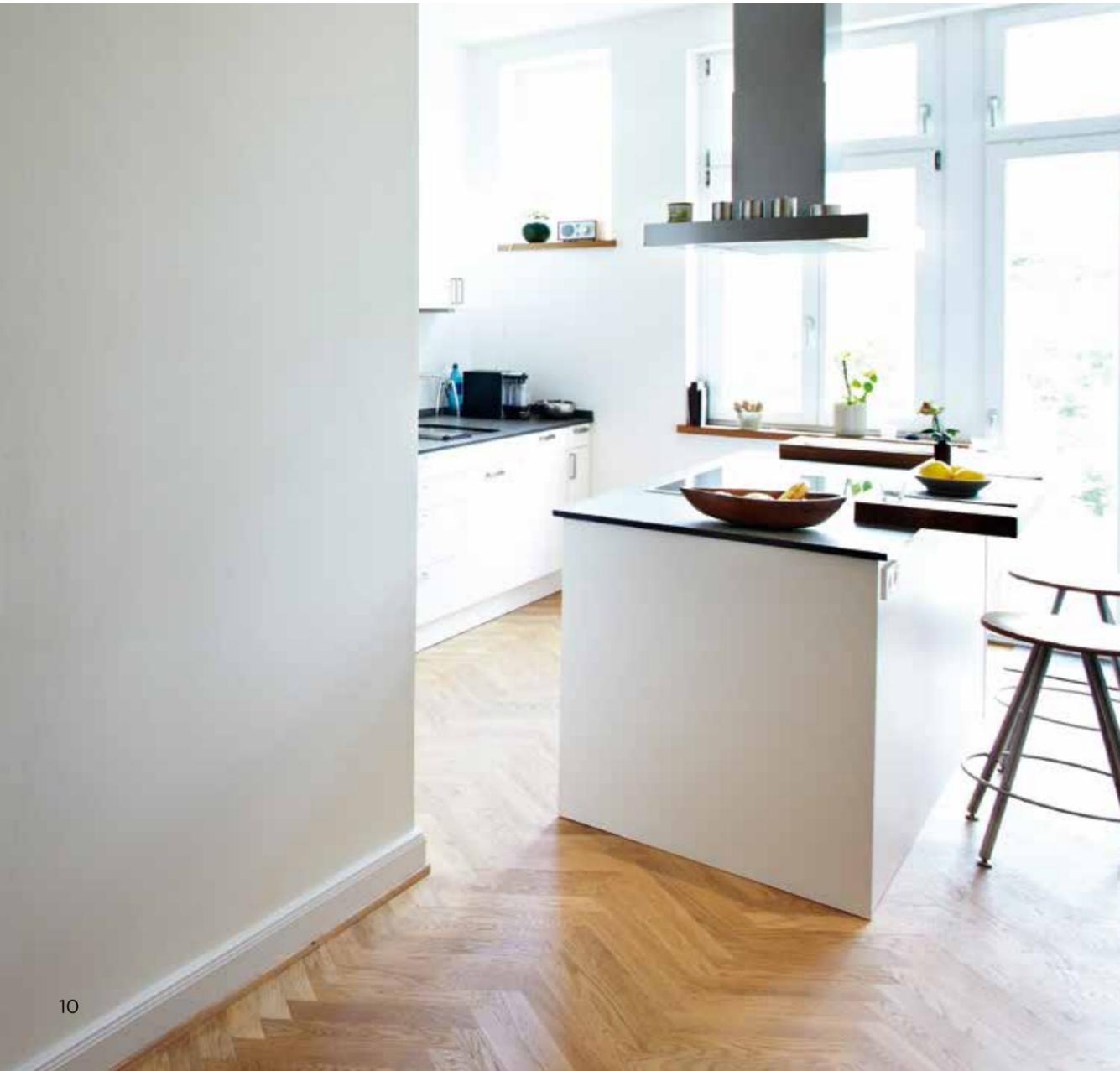


Less weight, higher flexibility

COMPARISON OF WEIGHT



Weigh up a further advantage of dry screed: ***Rigidur flooring elements** weigh less than half as much as cement screed of the same height. This significantly lower ceiling load goes hand in hand with greater flexibility in designing your floor.



Optimising noise insulation for wooden beam ceilings

It is an open secret that noise insulation is a basic comfort factor for relaxation, well-being and concentration. It's good to know that ***Rigidur flooring elements** considerably reduce impact noise and therefore make a substantial contribution to quietness. A reduction in the sound pressure level of 6 dB - 10 db roughly corresponds to perceiving half of the sound level. This makes the Rigidur flooring system an ideal choice of screed for wooden beam ceilings.

COMPARISON OF NOISE

Wooden beam ceiling with Rfe* 30 MW and 60 mm levelling compound

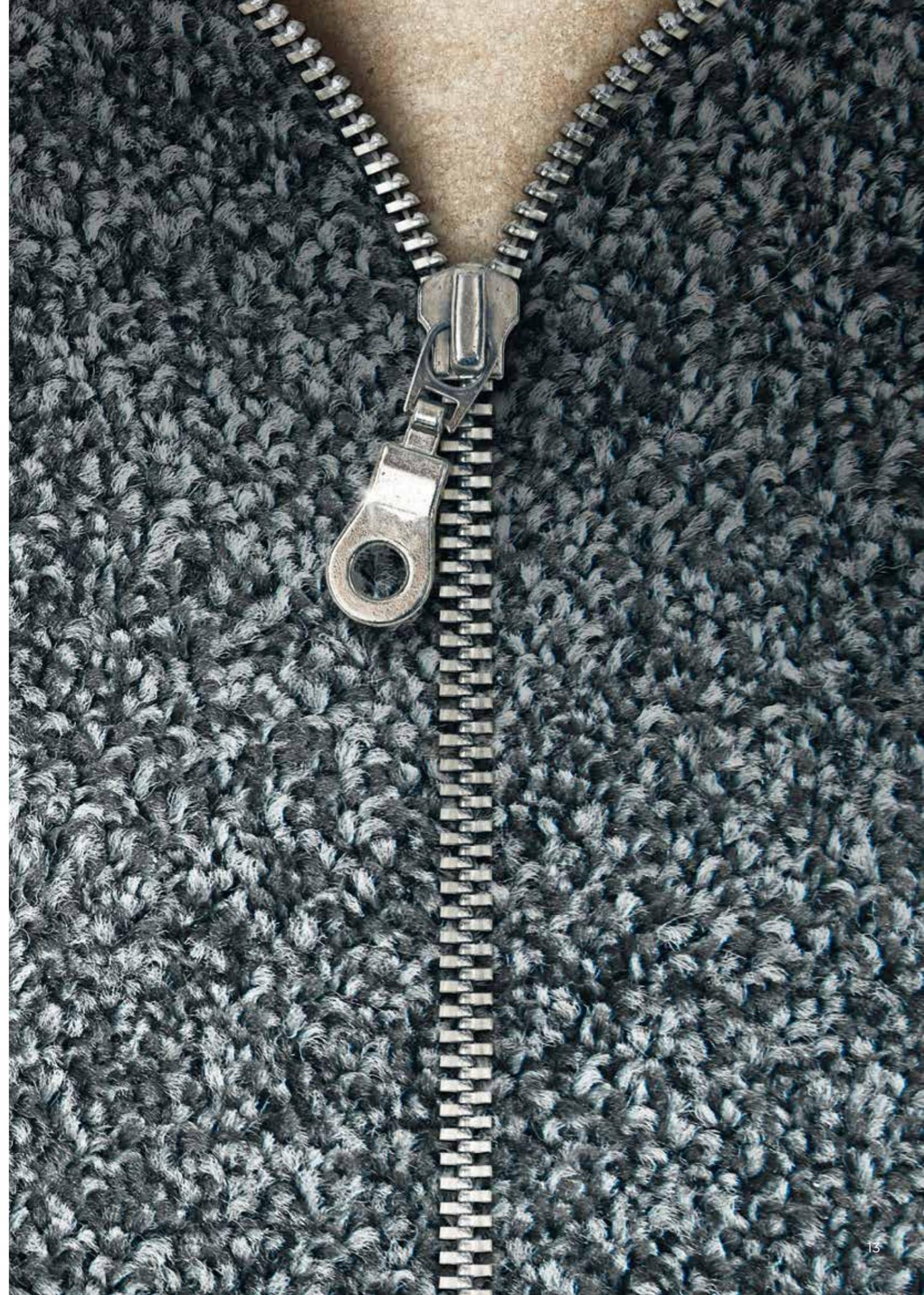


43 dB

Wooden beam ceiling with 50 mm cement screed and 40 mm insulation



49 dB





Simple, clean and safe to lay

Laying **Rigidur flooring elements** is extremely simple. Thanks to the perfectly put together system components all the requirements of acoustic decoupling from the levelling of unevenness up to precise and clean laying of the flooring elements can be mastered easily.



The substrate that you are covering with Rigidur flooring elements must not give or be elastic. And it must be dry and able to bear loads. First, prepare the substrate. In case of a wooden beam ceiling fasten loose boards, etc.



Raise two parallel banks at the desired levelling height, lay levelling boards on them and align the latter.



Smooth out and level the surface with a smoothing gauge over the levelling boards. Then remove the boards.



To avoid footfall sound transmission from floor to wall, lay a Rigips mineral wool edge insulation strip circumferentially. Pay particular attention to the wall corners.



For concrete concrete floors directly bordering on the ground, lay a PE film with approx. 30 cm overlap. On wooden substrates we recommend permeable paper roll as trickle protection.



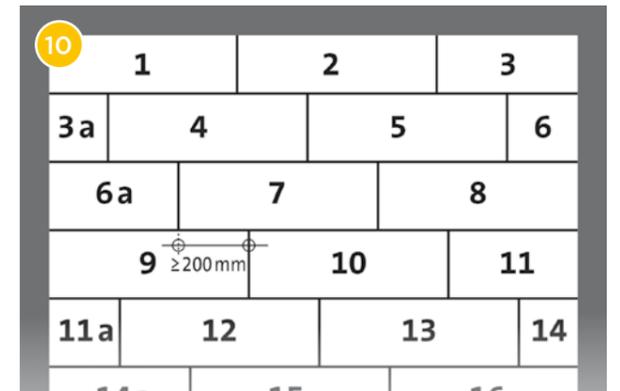
Place the levelling compound sack on the floor, cut it open at the bottom and lift the sack upwards. Then spread the compound on the floor space.



Level out unevenness and inclined floors with Rigips levelling compound. Levelling height: 10 to 100 mm.



You will now have a flat surface.



Lay the Rigidur flooring elements longitudinally. The transverse joints of the elements must be offset by at least 20 cm. (Rigidur element 3a = remainder of element 3.) Alternatively, you can also begin in the front right hand corner in order to avoid treading on the levelled fill.



Cut the rebate edges off the first flooring element at the wall connections of the longitudinal and transverse side.





12 Now start laying the Rigidur flooring elements in the back left corner of the room. If necessary, lay out stepping surfaces made of Rigidur flooring elements to avoid stepping on the dry compound.



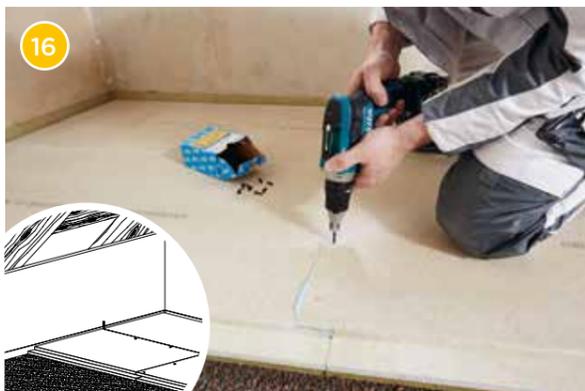
13 Lay the Rigidur flooring elements in rows longitudinally.



14 Apply the Rigidur Nature Line screed adhesive with the double-strand nozzle on the edge of the panel and on the rebate edges of the Rigidur flooring element.



15 Now lay more Rigidur flooring elements and screw the elements in rows throughout. The transverse joints of the elements must be at least 20 cm apart.



16 Connect the Rigidur flooring elements at the rebate edge with Rigidur drywall screws at intervals of approx. 25 cm.



17 Residual adhesive can be scraped off along the joint to create a smooth and flat surface. The adhesive will have hardened fully after approx. 24 hours and floor coverings can be laid.

Now you know the best kept flooring secret!

Use the 3rd dimension in dry construction to leverage all possibilities for success in planning and building modern living spaces.

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