RESITRIX°

Single-layer waterproofing membranes

SPECIFICATION GUIDELINES





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The specification guidelines below form the basis of the planning preparations for unused and accessible roof waterproofing with the hot-air-weldable, EPDM-based RESITRIX® waterproofing membranes.

All key roof structure and detail formations are described in text form and supplemented with images and drawings. Other local conditions or material combinations not described here may affect the functionality. Designs that vary from the planning guidelines as well as special solutions therefore require prior agreement with our Technical Department.

The information and product descriptions in this publication are based on our experience and test results and are correct to the best of our knowledge and belief. They form the basis of all of the solutions described here. Claims for compensation may not be derived from the contents of this publication. We reserve the right to make technically feasible design and product range modifications in accordance with our high standards regarding quality and continuous advancement.

These specification guidelines replace and supersede all previous editions.

August 2019

1. Basic Information

- The generally accepted technology standards must be complied with. The latest valid editions of all relevant standards, regulations, directives and guidelines apply.
- All RESITRIX® waterproofing membranes comply with the material related requirements for high quality roof waterproofing as per DIN 18531 (property class E1 and application category K2) and the specialist rule for sealing applications (flat roof guideline), with the additional requirements of the applicable set of rules also having to be complied with. They also meet the requirements for the waterproofing of buildings as per DIN 18195 and its follow on standards.
- All prior services from other trades must be suitable for the roof structure in question.
- The specification guidelines cannot take into account all construction related partial or specialist solutions. Applications relating to the waterproofing of buildings are not described in these specification guidelines. Their technical execution should only take place following consultation with our Technical Department.
- In the event of deviations from the general technical regulations, the specifications according to these guidelines may be applied.



2. General planning notes

The choice of suitable RESITRIX® waterproofing membranes and their installation variants, as well as the choice of all other individual layers of the overall roof structure, correlates with the following system proofs for the overall construction:

- Roof structure and wind suction safety as well as static safety
- Proof of heat and moisture protection
- Compliance with the regulations of the energy-saving ordinance
- Fire safety certificate and/or sound insulation certificate
- Proof of root protection in the case of roof vegetation

During the planning of the standard layer structure, as well as detailed solutions, the following individual instructions must be kept in mind:

- In accordance with the set of technical regulations, a minimum tapering of 2% should be planned for waterproofing structures. This can only be deviated from in justified exceptions.
- Please comply with the general substrate requirements for the individual installation variant. In particular, all substrates must be checked for suitability with regard to material compatibility and mechanical stress. Suitable protective layers or separating layers made from non-woven glass fibre, synthetic fleece or bitumen membranes must be laid if necessary.
- Above expansion joints, suitable additional measures must be taken, e.g. through the installation of the RESIFLEX® SK expansion joint sealing strip.
- In front of vertical surfaces, we recommend extending the roof membrane approx. 150 mm upwards, to provide additional security against water seepage.
- Around roof drains, the substrate should be lowered by at least 10 mm on a surface of at least 0.5 m² (0.7 x 0.7 m) to allow the faster drainage of rainfall. Outlets should be centralised as much as possible within a seamless section of the RESITRIX® waterproofing membranes.

- If metal components are required, we recommend the use of stainless steel (for the exact type, please consult the relevant manufacturer), aluminium or the use of suitable synthetic for the construction of drainage elements. No warranty claims will be considered in the event of signs of corrosion on unprotected drainage elements made from zinc or zinc alloys as a result of adverse environmental conditions e.g. acid mist or rain.
- Depending on the individual layers, additional measures may need to be taken in conjunction with the roof geometry to prevent slide-off.
- For all of the roof structures referred to in these specification guidelines with the various RESITRIX® waterproofing membranes, the proofs of resistance to flying sparks and radiating heat (hard roof covering) as per DIN 4102, part 7 or for B Roof (t1) as per DIN CEN/TS 1187 are available.

The waterproofing systems not only include the listed waterproofing membranes, but also the following complementary products and accessories:

- Adhesives / primers for substrate bonding
- RESIFLEX® SK + RESIFLEX® 3D expansion joint tape
- Pull-over sleeves for round roof ducts
- Punched parts for forming corners
- BLIFIX® lightning conductor bracket system
- Stainless steel accessories with integrated RESITRIX® sleeves for interior drainage and for pipe ducts

Please refer to the product data sheets inside the RESITRIX® product catalogue for detailed information.

As a vapour barrier membrane on profiled steel decking and on wood / timber decking, we recommend installing self-adhesive aluminium vapour-barrier membranes ALUTRIX® FR or ALUTRIX® 600. The tear resistant and puncture resistant membranes have an equivalent air layer thickness (sd value) of > 1,500 m and a fuel value of less than 11,600 kJ/m². ALUTRIX® FR also has a thermal value of below 10,500 kJ/m² and therefore meets fire safety requirements as per DIN 18234 and the Industrial Buildings Directive (IndBauRL).

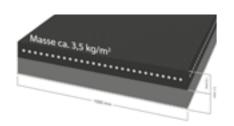
- ALUTRIX® FR meets FM Standard Class No. 4470 (FM Approval). Further information on ALUTRIX® vapour barrier membranes can be found in the relevant datasheet and the ALUTRIX® installation instructions.
- In cases of direct renovations of material susceptible to shrinkage, prior consultation with our Technical Department is required.
- When installing thermal insulation made from polystyrene hard foam boards under exposed seals, the temperature resistance of EPS of a maximum of 70 to 85 °C (long-term) and a maximum of 100 °C (briefly) must be noted. Since this temperature resistance can be exceeded in local areas of the roof with increased heat accumulation, for example in front of heat reflecting light or glazed façades, we recommend the additional arrangement of a ballast or the use of alternative insulation.
- Roof waterproofings are exposed to a range of internal and external influences, especially of a mechanical and thermal nature. The high flexibility of RESITRIX® waterproofing membranes, coupled with their practical, shrink-free behaviour, prevents the build-up of material tension and therefore the premature ageing of the seal compared to many other shrink prone materials. However, it is not always possible to exclude optical changes in the form of unevenness or waviness while in use. This primarily affects bonded RESITRIX® waterproofing membranes on old roofs with residual moisture, on timber deck with natural domestic moisture and on insulation prone to movement and shrinkage. The functional safety of the entire seal is however not impaired by the modified installation appearances.
- To ensure the maximum service life of the entire waterproofing installation, regular servicing, inspections and maintenance should be undertaken in accordance with the relevant national regulations. In this regard, we advise taking out a suitable inspection and/or maintenance contract.

RESITRIX®

RESITRIX°CL

Classically bonded using PU.

RESITRIX® CL is the classic EPDM waterproofing membrane that can be welded using hot air, preferably bonded onto the substrate using PU adhesives, which have proven themselves to be outstanding on numerous flat roofs for many years.



Total membrane thickness: 3,1 mm

CE certification acc. to DIN EN 13956 and DIN EN 13967

Meets the requirements under DIN 18531, the specialist rule for sealing applications (flat-roof guideline) and DIN 18195 and their subsequent standards DIN 18532, DIN 18533, DIN 18534 and DIN 18535



EPDM

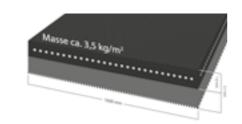
OOO INTEGRAL GLASS-FIBRE

POLYMER MODIFIED BITUMEN (SELF-ADHESIVE) POLYMER-MODIFIED BITUMEN

RESITRIX MB

Mechanically fixed.

RESITRIX® MB is the EPDM waterproofing membrane that can be welded using hot air, particularly for mechanical fixing and loose installation. It additionally meets FM Standard Class No. 4470 (FM Approval).



Total membrane thickness: 3,1 mm

CE certification acc. to DIN EN 13956 and DIN EN 13967

Meets the requirements under DIN 18531, the specialist rule for sealing applications (flat-roof guideline) and DIN 18195 and their subsequent standards DIN 18532, DIN 18533, DIN 18534 and DIN 18535

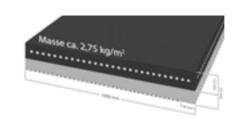


FINE QUARTZ SANDED FINISH



Self-adhesive and root-resistant across the full surface.

RESITRIX® SK W Full Bond is a EPDM waterproofing membrane that is self-adhesive and root-resistant across the full surface. It can be welded using hot air and is FLL test certified and licenced under DIN EN 13948.



Total membrane thickness: 2,5 mm

CE certification acc. toDIN EN 13956 and DIN EN 13967

Root-resistant according to the FLL test report of the Institute of Horticulture, FG/FU Weihenstephan and DIN EN 13948

Meets the requirements under DIN 18531, the specialist rule for sealing applications (flat-roof guideline) and DIN 18195 and their subsequent standards DIN 18532, DIN 18533, DIN 18534 and DIN 18535

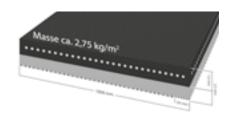




Partially self-adhesive.

This EPDM waterproofing membrane that can be welded using hot air is partially self-adhesive.

RESITRIX® SK Partial Bond can be used on materials that are susceptible to movement and substrates with residual moisture.



Total membrane thickness: 2,5 mm

CE certification acc. to DIN EN 13956 and DIN EN 13967

Meets the requirements under DIN 18531, the specialist rule for sealing applications (flat-roof guideline) and DIN 18195 and their subsequent standards DIN 18532, DIN 18533, DIN 18534 and DIN 18535



RESITRIX® Specification Guidelines

RELEASE FILM

4. Overall summary of installation possibilities



INSTALLATION VARIANT	MECHANICAL FIXING	INSTALLATION USING BALLAST	FULL SURFACE OR PARTIAL SELF-ADHESIVE	STRIP-WISE COLD ADHESIVE SEALING	FULL SURFACE HOT ADHESIVE SEALING	INSTALLATION UNDER VEGETATION
RESITRIX® waterproofing membrane	RESITRIX® MB RESITRIX® CL	RESITRIX® MB RESITRIX® CL RESITRIX® SK Partial Bond RESITRIX® SK W Full Bond	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	RESITRIX® CL	RESITRIX® CL	RESITRIX® SK W Full Bond
Fixing method	individual fastener	loose or adhered	surface primer FG35, if necessary without surface primer* Special primer FG 40 (only on EPS without lamination or initial covering)	polyurethane adhesive PU-LMF-02	hot bitumen	with/without surface primer FG35, if necessary mechanical fixing with / without special primer FG 40 (only on EPS without lamination or initial covering)
Overlap	at least 10 cm, at least 13 cm on unfaced EPS foam	at least 5 cm, at least 8 cm on unfaced EPS foam	at least 5 cm , at least 8 cm on unfaced EPS foam	at least 5 cm, at least 8 cm on unfaced EPS foam	at least 5 cm	depending on installation type, at least 5 to 13 cm
Seam connection	hot-air welding		hot-air welding			
Welding width	100 mm minimum	50 mm minimum	50 mm minimum			depending on installation type, at least 50 mm to 130 mm

^{*} See also: Tables 5.2, 5.4 and 5.5 in which cases primer can be dispensed with.





Within the following summaries, all installation possibilities for RESITRIX® waterproofing membranes are set out as a function of conventional substrates and

ballasts, wear layers or vegetation. There is a wide range of variants available. The preferred versions from an installation technology perspective are highlighted in colour for each of these installation possibilities. The other variants may however also be perfectly suitable or necessary taking account of

further framework conditions, such as changed weathering behaviour or the construction of temporary water-proofing.

5.1 SELF-ADHESIVE RESITRIX® WATERPROOFING MEMBRANES ON MINERAL WOOL BOARDS (MW)

INSULATION TYPE AS	LAMINATION / BRAND	PRIMER	WATERPROOFING MEMBRANE	USAGE OF FG 35 IN	g/m²	ROOF PITCH	COMMENTS
PER DIN EN 13162	LAMINATION / BRAND	FRIMER		SPRAY	MANUAL	ROOFPIICH	
DAA-dm Only for unused roofs	top-side fleece lamination at the factory Only the following brand: • HARDROCK Multi-fix (DD)	FG 35, full surface	RESITRIX® SK W Full Bond	approx. 140	approx. 200	any	Note the installation conditions of the insulation manufacturer. If necessary, take additional measures against slide-off and to secure against wind suction.
	inorganic, fibre-reinforced coating applied at the factory Only the following brands: • Rockwool-Megarock	FG 35, full surface	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	approx. 140	approx. 200	up to 20°	

Preferred installation variant

5.2 SELF-ADHESIVE RESITRIX® WATERPROOFING MEMBRANES ON EPS FOAM BOARD

INSULATION TYPE AS	LAMINATION / BRAND	PRIMER	WATERPROOFING MEMBRANE	USAGE OF PRIMER	IN g/m²	ROOF PITCH	COMMENTS	
PER DIN EN 13163	LAMINATION / BRAND	FRIMER	WATERI ROOTING MEMBRANE	SPRAY	MANUAL	ROOFFICE	COMMENTS	
DAA-dm Only for unused roofs	unfaced or without deck	FG 40, full surface	RESITRIX® SK W Full Bond	approx. 70–100	not required	any	Note the installation conditions of the insulation and bitumen membrane manufacturer; if	
DAA-dh Also for used roofs, accessible	factory coated lamination made from bitumen membrane, sand or talc covered	FG 35, full surface	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	approx. 140	approx. 200		necessary take addition against slide-off and to temperature resistance	necessary take additional measures against slide-off and to prevent the temperature resistance of EPS being exceeded (see also instructions under
	factory coating lamination from bitumen membrane with flamed PE release film	primer should always be used	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	not applicable			Section 3, General planning notes).	
	unfaced with deck made from cold self-adhesive bitumen membrane and flamed PE release film	primer should always be used	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	not applicable				

Preferred installation variant

5.3 SELF-ADHESIVE RESITRIX® WATERPROOFING MEMBRANES ON POLYURETHANE/POLYISO FOAM BOARD (PUR/PIR)

INSULATION TYPE AS	LAMINATION / BRAND	PRIMER	WATERDROOFING MEMPRANE	WATERPROOFING MEMBRANE	USAGE OF FG PRIMER I	N g/m²	ROOF PITCH	COMMENTS
PER DIN EN 13163	LAMINATION / BRAND	FRIMER	WATER ROOTING MEMBRANE		SPRAY	MANUAL	ROOF FILEN	COMMENTS
DAA-dh and DAA-ds Also for used roofs, accessible	In the factory on mineral fleece lamination or	FG 35, full surface	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond		approx. 140	approx. 200	up to 20°	Note the installation conditions of the insulation and bitumen membrane manufacturer.
	Non-laminated or							If necessary, take additional
	 In the factory with aluminium lamination, 							measures against slide-off.
	Only with the following brands:							
	• Linitherm PAL							
	• Linitherm PAL FD							
	Linitherm PAL for slopes							

5.4 SELF-ADHESIVE RESITRIX® WATERPROOFING MEMBRANES ON CELLULAR GLASS BOARD (CG)

INSULATION TYPE AS PER DIN EN 13167	LAMINATION / DECK	PRIMER	WATERPROOFING MEMBRANE	USAGE OF PRIMER IN g/m²	ROOF PITCH	COMMENTS
DAA-ds Also for used roofs, accessible -	unfaced, without deck and with layer of bitumen	primer should always be used	RESITRIX® SK W Full Bond	not applicable	up to 20°	Note the installation conditions of the insulation and bitumen membrane manufacturer. If necessary, take additional measures against slide-off.
	coated top-side with bitumen at the factory, without deck brand: • Foamglas-Ready Board	primer should always be used	RESITRIX® SK W Full Bond	not applicable	up to 20°	

5.5 SELF-ADHESIVE RESITRIX® WATERPROOFING MEMBRANES ON SUPPORTING STRUCTURES, UN-INSULATED

SUBSTRATES / SUP-	INITIAL COVERING	PRIMER	WATERPROOFING	USAGE OF PRIMER IN g	/m²	ROOF PITCH	COMMENTS
PORTING STRUCTURE	INTIAL COVERING	PRIMER	MEMBRANE	SPRAY	MANUAL	ROOFFIICH	COMMENTS
Wooden form-work, tongue-and-groove type / timber deck	without deck	FG 35, full surface	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	approx. 140	approx. 200	any	Additional measures and / or selection of deck dependent on the type and state of the supporting
	deck made from tear-resistant bitumen membrane, sand or talc covered, nailed-on	FG 35, full surface	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	approx. 140	approx. 200		structure and following coordination with our Technical Department
	deck made from cold self-adhesive bitumen membrane with flamed PE release film	primer should always be used	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	not applicable			
Reinforced concrete Pumice concrete	without deck	FG 35, full surface	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	approx. 200	approx. 300		
Porous concrete	deck made from tear-resistant bitumen membrane, sand or talc covered	FG 35, full surface	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	approx. 140	approx. 200		
	deck made from cold self-adhesive bitumen membrane with flamed PE release film	primer should always be used	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	not applicable			
Profiled steel decking	corrugation eaves filler (not EPS)	FG 35, full surface	RESITRIX® SK W Full Bond	approx. 140	approx. 200		

Preferred installation variant

5.6 SELF-ADHESIVE RESITRIX® WATERPROOFING MEMBRANES ON EXISTING ROOFS (RENOVATION WITHOUT ADDITIONAL INSULATION)

EXISTING SEAL	DECK / ADDITIONAL MEASURES	PRIMER	WATERPROOFING MEMBRANE	USAGE OF PRIMER IN g/m²		ROOF PITCH	COMMENTS
				SPRAY	MANUAL	ROOTTHEII	COMMENTS
Normal bitumen Elastomer bitumen	Remove bubbles, creases, dirt or unevenness.	FG 35, full surface	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	approx. 140	200	any	If necessary, take additional measures against slide-off.
 APP bitumen Plastic systems (softener-free) Elastomer membranes Liquid-applied plastic system PU in-situ foam 	Subsequent shrinkage processes must be ruled out; for this reason, installation is only possible on seals with a functioning horizontal fastening in the roof edge area and in front of vertical surfaces.						Installation and additional measures only following consultation with our Technical Department.

5.7 BONDING WITH RESITRIX® CL ON MINERAL WOOL BOARDS (MW)

INSULATION TYPE AS PER DIN EN 13162	LAMINATION / BRAND	TYPE OF BOND-	WATERPROOFING MEMBRANE	USE OF ADHESIVE IN g/m²	ROOF PITCH	COMMENTS
DAA-dm Only for unused roofs	factory coated lamination made from bitumen membrane, sand covered	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	up to 20°	Note the insulation manufacturer's installation conditions. If necessary, take additional
		full surface bonding using hot bitumen	RESITRIX® CL	approx. 1500	up to 20°	measures against slide-off. Full surface bonding in the edge and corner area.
	top-side fleece lamination at the factory or inorganic coating Only the following brands: • Rockwool-Bondrock MV • Rockwool-Georock MV • Rockwool-Keprock MV • Rockwool-Megarock • HARDROCK Multi-fix (DD)	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	any	cuge and comer area.

Preferred installation variant

5.8 BONDING WITH RESITRIX® CL ON EPS FOAM BOARD

INSULATION TYPE AS PER DIN EN 13163	LAMINATION / BRAND	TYPE OF BONDING	WATERPROOFING MEMBRANE	USE OF ADHESIVE IN g/m²	ROOF PITCH	COMMENTS
DAA-dm Only for unused roofs DAA-dh Also for used roofs, accessible	deck made from tear-resistant bitumen membrane, sand or talc covered	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	any	Note the installation conditions of the insulation and bitumen membrane manufacturer. If necessary, take additional measures against slide-off and to prevent the temperature resistance of EPS being exceeded (see also instructions under Section 3, General planning notes).
		full surface bonding using hot bitumen	RESITRIX® CL	approx. 1,500	any	
	deck made from cold self-adhesive bitumen membrane with flamed PE release film	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	any	
		full surface bonding using hot bitumen	RESITRIX® CL	approx. 1,500	any	
	unfaced, without deck	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	up to 20°	

5.9 BONDING WITH RESITRIX® CL ON POLYURETHANE / POLYISO FOAM BOARD (PUR/PIR)

INSULATION TYPE AS PER DIN EN 13162	LAMINATION / BRAND	TYPE OF BONDING	WATERPROOFING MEMBRANE	USE OF ADHESIVE IN g/m²	ROOF PITCH	COMMENTS
DAA-dh Also for accessible roofs	unfaced or fleece-laminated at the factory	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	up to 20°	Note the insulation manufacturer's installation conditions. If necessary, take additional measures against slide-off.

Preferred installation variant

5.10 BONDING WITH RESITRIX® CL ON CELLULAR GLASS BOARD (CG)

INSULATION TYPE AS PER DIN EN 13162	LAMINATION / BRAND	TYPE OF BONDING	WATERPROOFING MEMBRANE	USE OF ADHESIVE IN g/m²	ROOF PITCH	COMMENTS
Also for accessible	unfaced with deck made from bitumen membrane, sand or talc covered	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	up to 20°	Note the installation conditions of the insulation and bitumen membrane manufacturer.
		full surface bonding using hot bitumen	RESITRIX® CL	approx. 1.500	up to 20°	If necessary, take additional measures against slide-off.
	unfaced, without deck and with layer of bitumen	full surface bonding using hot bitumen	RESITRIX® CL	approx. 1.500	any	
top-side coated at the factory with bitumen and with deck made from bitumen membrane, sand or talc covered brand: • Foamglas-Ready Board top-side coated with bitumen at the factory, without deck brand: • Foamglas-Ready Board	with bitumen and with deck made from bitumen membrane,	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	up to 20°	
	full surface bonding using hot bitumen	RESITRIX® CL	approx. 1.500	up to 20°		
	at the factory, without deck brand:	full surface bonding using hot bitumen	RESITRIX® CL	approx. 1.500	any	

Preferred installation variant

5.11 BONDING WITH RESITRIX® CL ON SUPPORTING STRUCTURE, UN-INSULATED

TYPE OF SUPPORTING STRUCTURE	LAMINATION / BRAND	TYPE OF BONDING	WATERPROOFING MEMBRANE	USE OF ADHESIVE IN g/m²	ROOF PITCH	COMMENTS
Wooden formwork, tongue-and-groove type / timber deck	deck made from tear resistant, sand covered bitumen membrane, nailed on	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200	any	Additional measures and / or selection of deck dependent on the type and state of the supporting structure and following coordination with our Technical Department
		full surface bonding using hot bitumen	RESITRIX® CL	approx. 1,500	_	
	deck made from cold self-adhesive bitumen membrane with flamed PE release film	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200		
		full surface bonding using hot bitumen	RESITRIX® CL	approx. 1,500		
Reinforced concrete Pumice concrete	deck made from bitumen weld membrane	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200		
Porous concrete		full surface bonding using hot bitumen	RESITRIX® CL	approx. 1,500		
	deck made from cold self-adhesive bitumen membrane with flamed PE release film	strip bonding with PU-LMF-02	RESITRIX® CL	approx. 200		
		full surface bonding using hot bitumen	RESITRIX® CL	approx. 1,500		

Preferred installation variant

5.12 BONDING WITH RESITRIX® CL ON EXISTING ROOFS (RENOVATION WITHOUT ADDITIONAL INSULATION)

EXISTING SEAL	PRE-TREATMENT	TYPE OF BONDING	WATERPROOFING MEMBRANE	USE OF ADHESIVE IN g/m²	ROOF PITCH	COMMENTS
Normal bitumenElastomer bitumenPU in-situ foam	remove bubbles, creases, dirt or unevenness	strip bonding with PU-LMF-02	RESITRIX® <mark>CL</mark>	approx. 200	any	If necessary, take additional measures against slide-off.

5.13 LOOSE INSTALLATION WITH MECHANICAL FIXING USING RESITRIX® MB/RESITRIX® CL

SUBSTRATE	PROTECTIVE LAYER / MEASURES REQUIRED	WATERPROOFING MEMBRANE	ROOF PITCH	COMMENTS
Mineral wool plates (MW) as per DIN EN 13162 Type DAA-dm only for unused roofs	unfaced or uncoated	RESITRIX® MB RESITRIX® CL	any	Note the installation conditions of the insulation manufacturer. If necessary take additional measures against the
EPS foam board as per DIN 13163 Type DAA-dm only for unused roofs Type DAA-dh Also for used roofs, accessible	unfaced or uncoated and also non-woven glass fibre, approx. 120 g/m²	RESITRIX® MB RESITRIX® CL	any	temperature resistance of EPS being exceeded (see also instructions under Section 2, General planning notes). Be aware of the increased membrane overlap and the welding width of 8 cm.
Polyurethane / Polyiso board (PUR/PIR) as per DIN 13165 Type DAA-dh Also for used roofs, accessible	unfaced or faced at the factory	RESITRIX® MB RESITRIX®CL	up to 20°	
Supporting structure, uninsulated, made from • wooden framework, tongue-and-groove type/timber deck • reinforced concrete • pumice concrete • porous concrete	without protective layer or with non-woven glass fibre approx. 120 g/m² or with polyester fleece, approx. 300 g/m² (depending on the condition of the supporting structure)	RESITRIX® MB RESITRIX® CL	any	
Profiled steel decking	corrugation eaves filler, non-flammable	RESITRIX® MB RESITRIX® CL	any	
Existing seal (existing roof), softener-free	Remove bubbles, creases, dirt and unevenness; subsequent shrinkage processes must be ruled out; for this reason, installation is only possible on waterproofing with a functioning horizontal fastening in the roof edge area and in front of vertical surfaces.	RESITRIX® MB RESITRIX® CL	any	

Preferred installation variant

5.14 INSTALLATION OF ALL RESITRIX® WATERPROOFING MEMBRANES UNDER BALLAST OR WEAR LAYER

USAGE	SUBSTRATE / INSULATION TYPE	BALLAST / VEGETATION	WATERPROOFING MEMBRANE	COMMENTS
Not used	insulation type DAA-dm or DAA-dh DUK-dh (for inverted roof) or supporting structure without thermal insulation	gravel	RESITRIX® MB RESITRIX® CL RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	 Types or brands of insulation for PUR / PIR as with mechanical fixation. Note the installation conditions of the insulation manufacturer. No separating layers are required between the insulating layer and the waterproofing membrane. Protective layers may be required between the
	or existing roof	extensive vegetation	RESITRIX® SK W Full Bond	 waterproofing membrane and the ballast / vegetation. If necessary, take additional measures against slide-off. The type and dimensions of the ballast are dependent on the use, wind suction load and static strength of the supporting structure.
Used, accessible	insulation type DAA-dh DUK-dh (for inverted roof) or supporting structure	roofs that can be walked on (e.g. terrace structure)	RESITRIX® MB RESITRIX® CL RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	 When renovating old roofs, the condition of the existing roof structure must be checked first. In the case of intensive vegetation, the individual layers including RESITRIX® SK W Full Bond should also be bonded across their full surfaces (compact roof).
	without thermal insulation or	extensive vegetation, intensive vegetation	RESITRIX® SK W Full Bond	 In the case of inverted roofs, the RESITRIX® roof waterproofing should also be bonded across its entire surface.

6. Additional notes for the individual installation variants



6.1 LOOSE INSTALLATION WITH MECHANICAL FIXING

General substrate requirements	even, free from tension, bubbles, creases, sharp edges, burrs and rough sections, damaging joints, etc.
	 If necessary, suitable separating layers should be installed on unsuitable substrates.
	 additional base tie-in with individual fasteners
Information about mechanical fixation	Number and arrangement of individual fasteners following consultation with our Technical Department
Overlap width of the sealing layers	 at least 10 cm at least 13 cm on unfaced rigid polystyrene foam with non-woven glass fibre, building material class A2, at least 120 g /m²
Seam connection	hot-air welding
Welding width	at least 100 mm

6.2 INSTALLATION WITH BALLASTING / WEARING LAYER (FOR GREEN VEGETATION, SEE SECTION 6.4)

General substrate requirements	 even, free from tension, bubbles, creases, sharp edges, burrs and rough sections, damaging joints, etc. 			
	• If necessary, suitable separating layers should be installed on unsuitable substrates.			
	Additional edge fixation with individual fasteners on			
	supporting shell made of trapezoidal steel profile,			
	• on EPS rigid foam insulation and			
Ballasting / wearing layer	gravel (unused roof)	wear layer for accessible roof		
Thickness / weight	complies with DIN EN 1991; at least 5 cm	complies with DIN EN 1991		
Protective layer above sealing layer	Protective layer required	protective layer and drainage layer as per the planner's specifications		
Roof pitch	max 5°			
Overlap width of	• at least 5 cm			
the sealing layers	• at least 100 mm on unfaced rigid polysty	rene foam		
Seam connection	hot-air welding			
Welding width	at least 50 mm			



If the construction is an inverted roof with extruded polystyrene hard foam (XPS), type DUK-dm, dh, ds, the specifications as per the relevant building control certification must also be observed.

6.3 BONDED DESIGNS

Substrate bonding	self-adhesive with full surface primer	full surface bonding using hot bitumen	strip bonding with PU adhesive PU-LMF-02
Waterproofing membrane(s)	RESITRIX® SK W Full Bond RESITRIX® SK Partial Bond	RESITRIX® CL	RESITRIX® CL
General substrate requirements	•	h individual fasteners on rapezoidal steel profile, on and	
	dry	free of visible water	
	ury		fog or dew moisture possible
Roof pitch	Unlimited, if the substrate is stable and wind suctionresistant.	Over a pitch of 5°, stable bitumen must be used.	Unlimited, if the substrate is stable depending on the roof pitch. Otherwise if necessary also carry out mechanical fixation to the upper edge of the membrane as a temporary slide-off guard.
Overlap width	• at least 5 cm		
	• at least 8 cm on unfaced rig	id polystyrene foam	
Seam connection	hot-air welding		
Welding width	at least 50 mm		

6.4 INSTALLING RESITRIX® SK W FULL BOND UNDER ROOF VEGETATION

Installation variant	full surface self-adhesive with primer	loose installation without surface primer, including mounting tacking	loose installation without surface primer, with mechanical fixing
General substrate requirements	•	individual fasteners on apezoidal steel profile, and	
	 dry frost-free (ambient temperature at least +5 °C) 	If necessary, suitable separat must be arranged on non-su	•
Information regarding specialist installation variant	tem used, especially with regar mechanical fixing to profiled st or to ensure positional stability	teel decking). To avoid water leak r, full surface self-adhesive is rec	e of SFS fasteners in the case of
Information on roof	Extensive and intensive vegeta	tion are possible in single and m	nulti-laver constructions

Information on roof Extensive and intensive vegetation are possible in single and multi-layer constructions.

vegetation The installation regulations of the respective vegetation manufacturer must also be observed.

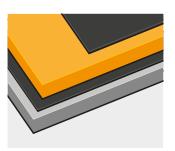
7. Selected roof structures | Examples of installation



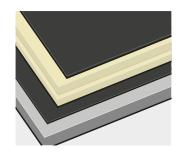
7.1 BONDED INSTALLATION

SUPPORTING STRUCTURE

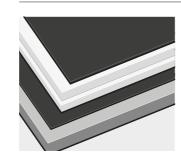
Reinforced concrete / pumice concrete / porous concrete



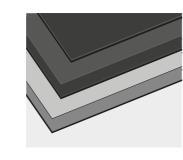
- RESITRIX® SK W Full Bond with FG 35
- mineral wool, coated on the top side
- bituminous vapour barrier membrane on undercoat
- concrete



- RESITRIX® SK W Full Bond with FG 35
- PUR/PIR foam
- bituminous vapour barrier membrane on undercoat
- concrete

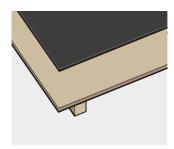


- RESITRIX® SK W Full Bond with FG 40
- unfaced rigid polystyrene foam
- bituminous vapour barrier membrane on undercoat
- concrete



- RESITRIX® SK W Full Bond with FG 35
- cellular glass in hot bitumen, with deck made from bitumen membranes in hot bitumen
- concrete

Wooden formwork, tongue-and-groove type / timber deck

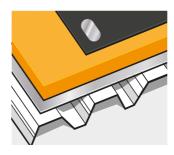


- RESITRIX® SK W Full Bond with FG 35
- timber

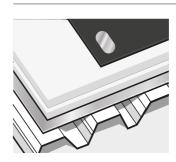
7.2 MECHANICAL FIXING

SUPPORTING STRUCTUR

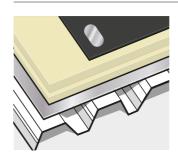
Profiled steel decking (coated)



- RESITRIX® MB
- mineral wool
- ALUTRIX®600 / ALUTRIX®FR
- profiled steel decking

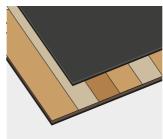


- RESITRIX® MB
- Non-woven glass fibre
- EPS foam
- ALUTRIX®600 / ALUTRIX®FR
- profiled steel decking



- RESITRIX® MB
- PUR / PIR foam
- ALUTRIX®600 / ALUTRIX®FR
- profiled steel decking

Wooden formwork, tongue-and-groove type / timber deck

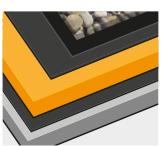


- RESITRIX® MB
- non-woven glass fibre
- timber

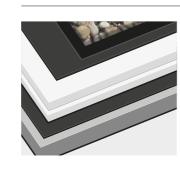
7.3 LOOSE INSTALLATION WITH GRAVEL BALLAST

SUPPORTING STRUCTURE

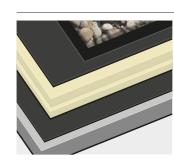
Reinforced concrete / pumice concrete / porous concrete



- gravel
- protective layer
- RESITRIX® MB
- mineral wool
- bituminous vapour barrier membrane on undercoat
- concrete



- grave
- protective layer
- RESITRIX® MB
- EPS foam
- bituminous vapour barrier membrane on undercoat
- concrete

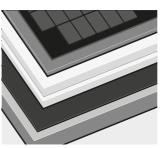


- gravel
- · protective layer
- RESITRIX® MB
- PUR/PIR foam
- bituminous vapour barrier membrane on undercoat
- concrete

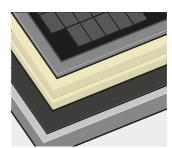
7.4 ACCESSIBLE ROOFS

SUPPORTING STRUCTUR

Reinforced concrete / pumice concrete / porous concrete



- terrace construction on suitable protective layer
- RESITRIX® MB / RESITRIX® SK W Full Bond
- EPS foam
- bituminous vapour barrier membrane on undercoat
- reinforced concrete

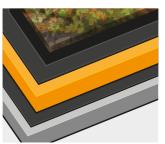


- terrace construction on suitable protective layer
- RESITRIX® MB / RESITRIX® SK W Full Bond
- PUR/PIR foam
- bituminous vapour barrier membrane on undercoat
- reinforced concrete

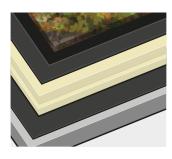
7.5 INSTALLATION UNDER VEGETATION

SUPPORTING STRUCTURE

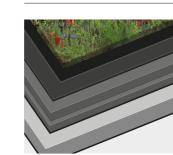
Reinforced concrete / pumice concrete / porous concrete



- vegetative roof system (extensive)
- RESITRIX® SK W Full Bond
- mineral wool
- bituminous vapour barrier membrane on undercoat
- concrete



- vegetative roof system (extensive or intensive)
- RESITRIX® SK W Full Bond
- PUR/PIR foam
- bituminous vapour barrier membrane on undercoat
- concrete



 vegetative roof system (extensive or intensive)

EPS foam

undercoat

• concrete

• RESITRIX® SK W Full Bond

• vegetative roof system

(extensive or intensive)

• RESITRIX® SK W Full Bond

bituminous vapour

barrier membrane on

- cellular glass with deck made from bitumen membranes in hot bitumen
- reinforced concrete

(timber tongue and groove framework / timber deck)

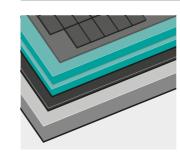


- lightweight roof vegetative roof system (extensive)
- RESITRIX® SK W Full Bond
- timber

7.6 INSTALLATION IN THE INVERTED ROOF AREA

SUPPORTING STRUCTUR

Reinforced concrete



- / slab paving on suitable protective layer
- / XPS foam
- / RESITRIX® SK W Full Bondwith FG 35
- / reinforced concrete



8.1 CONSTRUCTION OF CONNECTIONS AND TERMINATIONS ON PITCHED AND VERTICAL SURFACES

Connection or termination variant ³⁾	full surface / partial self-adhesive on surface primer	full surface welding with hot-air hand-held welding device ¹⁾			
Material type of the	RESITRIX® SK W Full Bond	RESITRIX® MB			
separate flashing strips	RESITRIX® SK Partial Bond	RESITRIX® CL			
		RESITRIX® SK W Full Bond			
		RESITRIX® SK Partial Bond			
Area of application	on pitched and vertical conr	nection surfaces			
General substrate requirements	9	ener-free, even, free from tension, bubbles, and rough sections, damaging joints			
	dry and frost free (ambient temperature at least 5°C)				
Substrate variants ²⁾	metallic substrates, uncoated				
	bituminous materials				
	 absorbent or porous substrates (concrete, brick, plaster, timber deck) 				
	hard PVC, polyester, polycarbonate, polyurethane, mineral wool (faced)				
	• various plastic and rubber	membranes, only with inlays or lamination , EPS (see below)			
	PIB, ECB, alternative EPDM, FPO, NBR, liquid-applied plastic systems, glass	PIB ECB			
Seam connection	hot-air welding	-			
Overlap width	at least 5 cm				
Welding width	at least 50 mm				

¹⁾ Only useful for small areas that require welding.

8.2 CONSTRUCTION OF CONNECTIONS/TRANSITIONS WITHIN THE WATER-CARRYING LAYER

Substrate variant	connection or termination at metallic materials ¹⁾	connection or termination at plastics ¹⁾	connection to alternative seals, bitumen-compatible, softener-free ¹⁾²⁾
	 zinc copper stainless steel aluminium	 unsaturated polyester resin, fibreglass-reinforced (UP-GFK) hard PVC polypropylene 	 normal bitumen elastomer bitumen APP bitumen PIB ECB liquid-applied plastic systems
Material type of the sealing layer	RESITRIX® SK W Full Bond / RE	ESITRIX® SK Partial Bond	
Pretreatment of the cleaned substrate	degreasing with G 500 clean	ner no surface primer	priming with FG 35
Connection with transitional area	hot-air welding		
Overlap width	at least 5 cm		
Welding width	at least 50 mm		
-			

 $^{^{\}rm 1)}$ Connections and terminations require prior consultation with our Technical Department.

²⁾ Transitions to alternative materials affect the whole system and therefore cannot be safeguarded with one material warranty. Technical execution should only take place following consultation with our Technical Department.

³⁾ Connections to non stable, non wind suction resistant or non adherable substrates can be carried out loosely with mechanical fixing on the top side. In the case of connection heights above 50 cm, mechanical intermediate fixing is required.

²⁾ Connections to alternative seals cannot be safeguarded with one material warranty, since differences in the formula used within alternative seals, associated with changes within the physical parameters, cannot be ruled out.

10. Technical drawings, standard details



Corners are best formed with flat, pre-fabricated cut sections made from RESIFLEX® SK. These cut sections are punched ready-moulded and therefore allow the fast, reliable and convenient construction of internal and external corners. The corner sections comprise 3 parts, a circle with a cut-out notch, a full circle and an oval tongue.

The required cut sections can also be simply cut to size directly on the construction site from the membrane materials so that there is virtually no loss of material.

To maintain the overlap width, the diameter and width of the cut sections must be at least 180 mm.

The individual cut sections are welded to the full surface of the flashing strips with an overlap width of at least 40 mm using hot air. Hot-air welding is also used to weld the seam connections of the individual cut pieces.



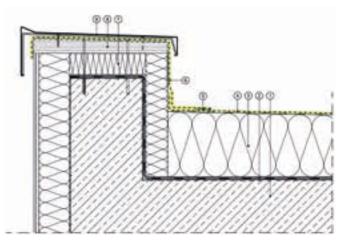
Further information on the positioning and installation of cut sections can be found in the RESITRIX® installation instructions.



10.1 FASCIA CAPS

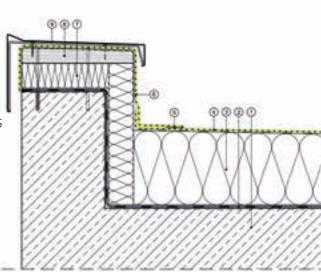
10.1.1 EIFS parapet upstand (fascia cap)

- 1. Concrete layer
- 2. Vapour barrier membrane, e.g. V6o S4 AI, bituminous undercoat
- 3. PUR/PIR insulation, bonded as per the manufacturer's specifications
- 4. RESITRIX® SK W Full Bond, bonded to surface primer FG 35
- 5. RESITRIX® SK W Full Bond welded to roof membrane
- 6. RESITRIX® SK W Full Bond bonded across its full surface to surface primer FG 35
- 7. Pressure-resistant insulation
- 8. Multi layer board throughout
- 9. Aluminium parapet covering or similar, mechanically fastened



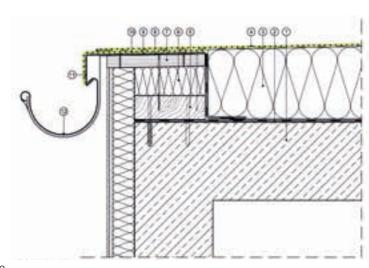
10.1.2 Parapet upstand

- 1. Concrete layer
- 2. Vapour barrier membrane, e.g. G200 S4 AI, bituminous undercoat
- 3. PUR/PIR insulation, bonded as per the manufacturer's specifications
- 4. RESITRIX® SK W Full Bond, bonded to surface primer FG 35
- 5. RESITRIX® SK W Full Bond welded to surface membrane
- 6. RESITRIX® SK W Full Bond bonded across its full surface to surface primer FG 35
- 7. Pressure-resistant insulation
- 8. Multilayer board throughout
- 9. Aluminium parapet covering or similar, mechanically fastened



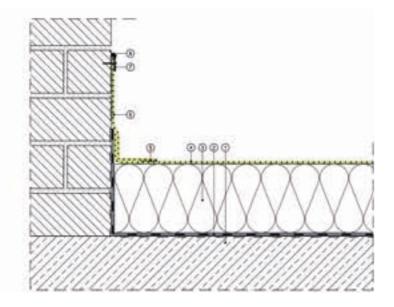
10.2 DRAINAGE I GUTTER

- 1. Concrete component
- 2. Vapour barrier membrane, e.g. V6o S4 Al, bituminous undercoat
- 3. PUR/PIR insulation, bonded as per the manufacturer's specifications
- 4. RESITRIX® SK W Full Bond, bonded to surface primer FG 35
- 5. Wooden plank
- 6. Pressure-resistant insulation
- 7. Multilayer board throughout
- 8. Iron brackets
- 9. Metal closure
- 10. RESITRX® SK W Full Bond bonded to metal closure
- 11. FG 35 surface primer to metal closure
- 12. Eaves gutter, e.g. stainless steel



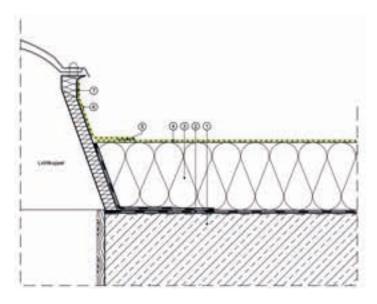
10.3 TERMINATION BAR

- 1. Concrete layer
- 2. Vapour barrier membrane V6o S4 AI, bituminous undercoat
- 3. PUR/PIR insulation, bonded as per the manufacturer's specifications
- 4. RESITRIX® SK W Full Bond, bonded to surface primer FG 35
- 5. RESITRIX® SK W Full Bond welded to surface membrane
- 6. RESITRIX® SK W Full Bond bonded across its full surface to surface primer FG 35
- 7. Termination bar detail
- 8. Elastic sealant



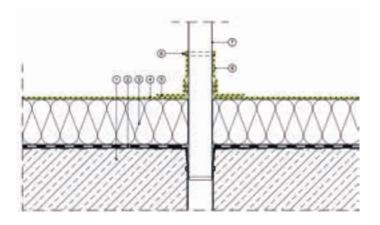
10.4 ROOFLIGHT WATERPROOFING

- 1. Concrete layer
- 2. Vapour barrier membrane V6o S4 Al, bituminous undercoat
- 3. PUR/PIR insulation, bonded as per the manufacturer's specifications
- 4. RESITRIX® SK W Full Bond, bonded to surface primer FG 35
- 5. RESITRIX® SK W Full Bond welded to surface membrane
- 6. RESITRIX® SK W Full Bond flashing strips bonded to rooflight
- 7. Upper termination 4 cm welded



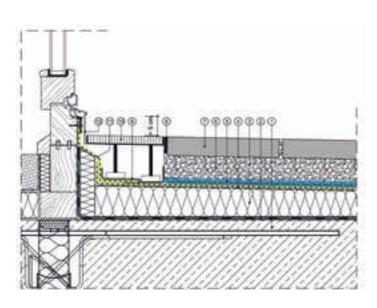
10.5 PENETRATION | VENT PIPE

- 1. Concrete layer
- 2. Vapour barrier membrane, e.g. G200 S4 AI, bituminous undercoat
- 3. PUR/PIR insulation, bonded as per the manufacturer's specifications
- 4. RESITRIX® SK W Full Bond, bonded to surface primer FG 35
- 5. RESITRIX® SK W Full Bond sleeve welded to surface membrane
- 6. Hose clamp
- 7. Vent pipe
- 8 . RESITRIX® SK W Full Bond flashing strips bonded to surface primer FG 35



10.6 TERRACE DOOR SEALING

- 1. Concrete layer
- 2. Vapour barrier membrane V6o S4 Al bituminous undercoat
- 3. PUR/PIR insulation, bonded as per the manufacturer's specifications
- 4. RESITRIX® SK W Full Bond, bonded to surface primer FG 35
- 5. Drainage mat
- 6. Compensation layer
- 7. Concrete plate
- 8. Compressed joint sealing strip
- 9. Synthetic fleece
- 10. Grating
- 11. RESITRIX® SK W Full Bond welded to surface membrane
- 12. Step protection sheet

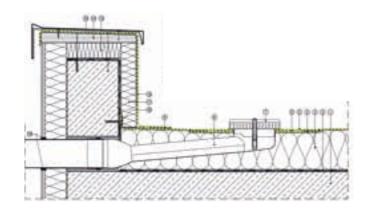


10.7 OUTLETS | ROOF DRAINS

11.7.1 Two-part outlet

- 1. Concrete layer
- 2. Vapour barrier membrane, e.g. G200 S4 Al, bituminous undercoat
- 3. PUR/PIR thermal insulation
- 4. RESITRIX® MB mechanical fastened
- 5. Factory-side connecting sleeve 500 x 500 mm
- 6. Horizontal base plate
- 7. M leaf trap
- 8. Parapet drain outlet \emptyset 110
- 9. RESITRIX® SK W Full Bond welded to surface membrane
- 10. Base tie-in by means of bent metal sheet
- 11. Vertical insulation
- 12. RESITRIX® SK W Full Bond bonded across its full surface to surface primer

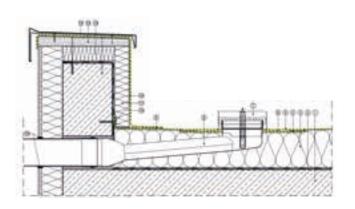
- 13. Pressure-resistant insulation
- 14. Multilayer board throughout
- 15. Aluminium parapet covering or similar, mechanically
- 16. Compriband with permanently elastic sealing



10.7.2 Safety drain

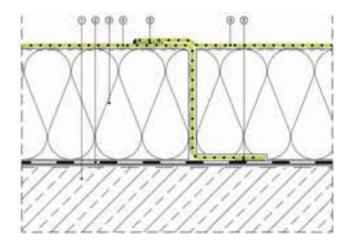
- 1. Concrete layer
- 2. Vapour barrier membrane, e.g. G200 S4 AI, bituminous undercoat
- 3. PUR/PIR thermal insulation
- 4. RESITRIX® MB mechanical fastened
- 5. Factory-side connecting sleeve 500 x 500 mm
- 6. Horizontal base plate
- 7. M leaf trap with retaining element
- 8. Parapet drain outlet Ø 110
- 9. RESITRIX® SK W Full Bond welded to surface membrane
- 10. Base tie-in by means of bent metal sheet
- 11. Vertical insulation (PUR/PIR)
- 12. RESITRIX® SK W Full Bond bonded across its full surface to surface primer FG 35

- 13. Pressure-resistant insulation
- 14. Multilayer board throughout
- 15. Aluminium parapet covering or similar, mechanically fastened
- 16. Compriband with permanently elastic sealing



10.8 SEALING-OFF

- 1. Concrete layer
- 2. Vapour barrier membrane, e.g. G200 S4 AI, bituminous undercoat
- 3. PUR/PIR insulation, bonded as per the manufacturer's specifications
- 4. RESITRIX® SK W Full Bond, bonded to surface primer FG 35
- 5. RESITRIX® SK W Full Bond, weld with hot air

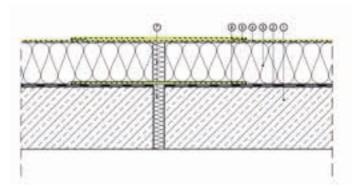


11. Notes



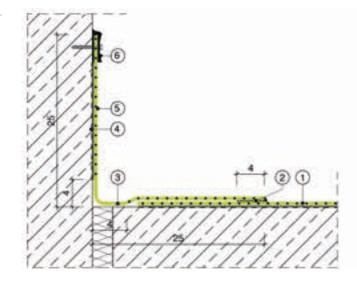
10.9 EXPANSION JOINT WITH RESIFLEX®

- 1. Concrete ceiling
- 2. V6o S4 Al vapour barrier membrane, bituminous primer
- 3. PUR/PIR thermal insulation, bonded according to the manufacturer's specifications
- 4. RESITRIX® SK Partial Bond, bonded to FG 35 surface primer
- 5. RESIFLEX® SK, welded onto base membrane
- 6. RESIFLEX® SK
- 7. Soft insulation



10.10 FLEXIBLE WALL CONNECTION WITH RESIFLEX®

- 1. RESITRIX® SK W Full Bond, fully bonded to FG 35 surface primer
- 2. RESIFLEX® SK, welded onto RESITRIX® SK W Full Bond
- 3. Reinforcement and adhesive-free zone
- 4. Full-surface primer with FG 35
- 5. RESIFLEX® SK expansion joint tape
- 6. Wall connection profile with finish on the upper side



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