

Controlit[®]
FACTORY

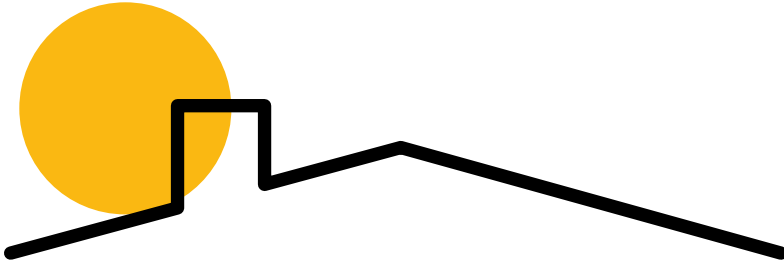


CONTROLIT CONDUCTIVE UNDERLAYS
DESIGNING PRINCIPLES



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Controlit solution is applicable to a variety of roofing and waterproofing applications, including exposed flat roofs, green roofs, loaded roofs, balconies, podium decks, exploitable terraces, swimming pools, and civil engineering solutions. Its versatility and effectiveness make it a preferred choice for construction projects that require the highest levels of quality control and safety.

Furthermore, Controlit solution can help maintain energy efficiency and thermal insulation in roofing structures for a long time, reducing energy consumption and promoting sustainability. By proactively caring for roofs and addressing any issues promptly, building owners can save costs and reduce environmental impact.

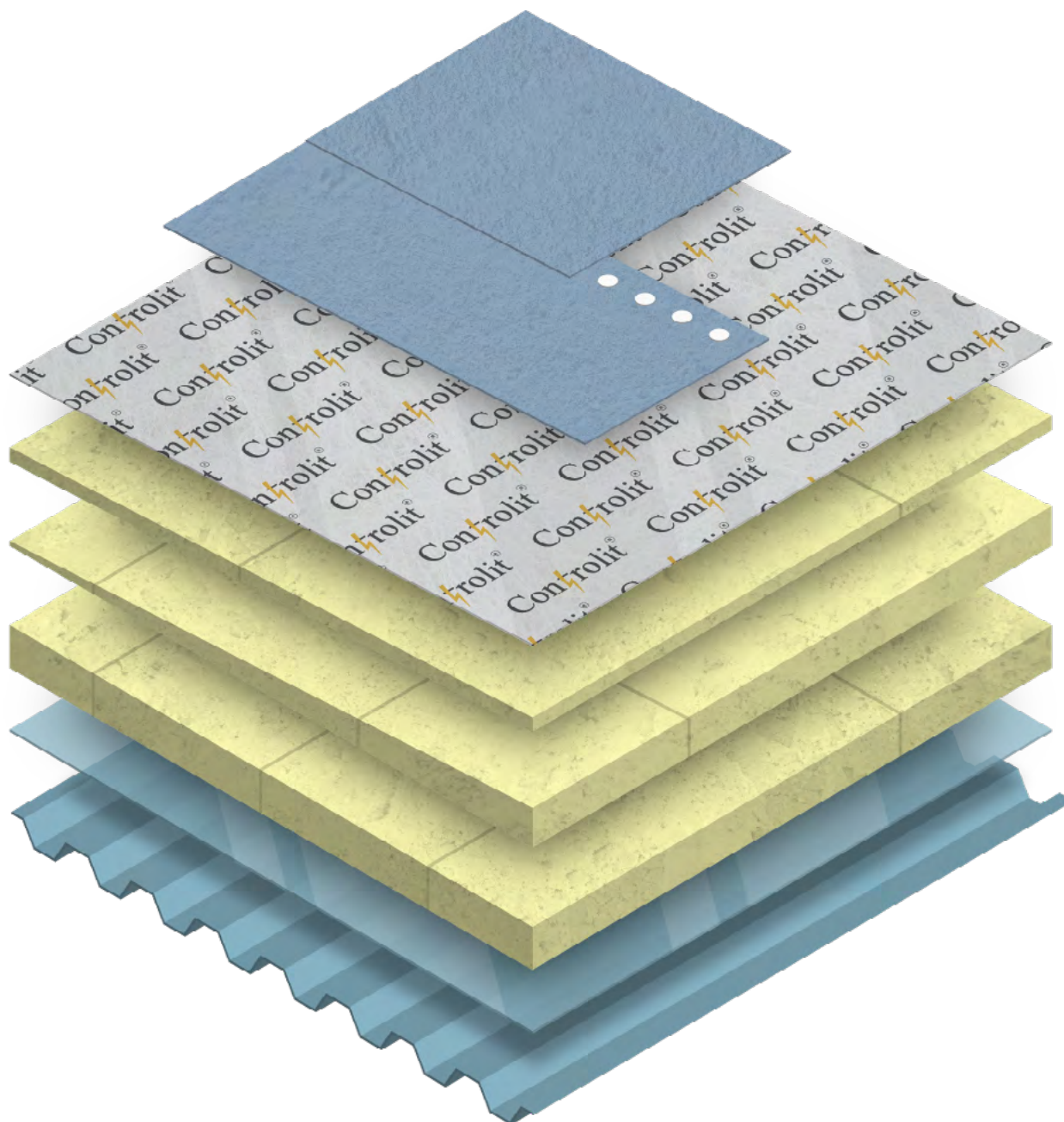
When installing Controlit underlay:

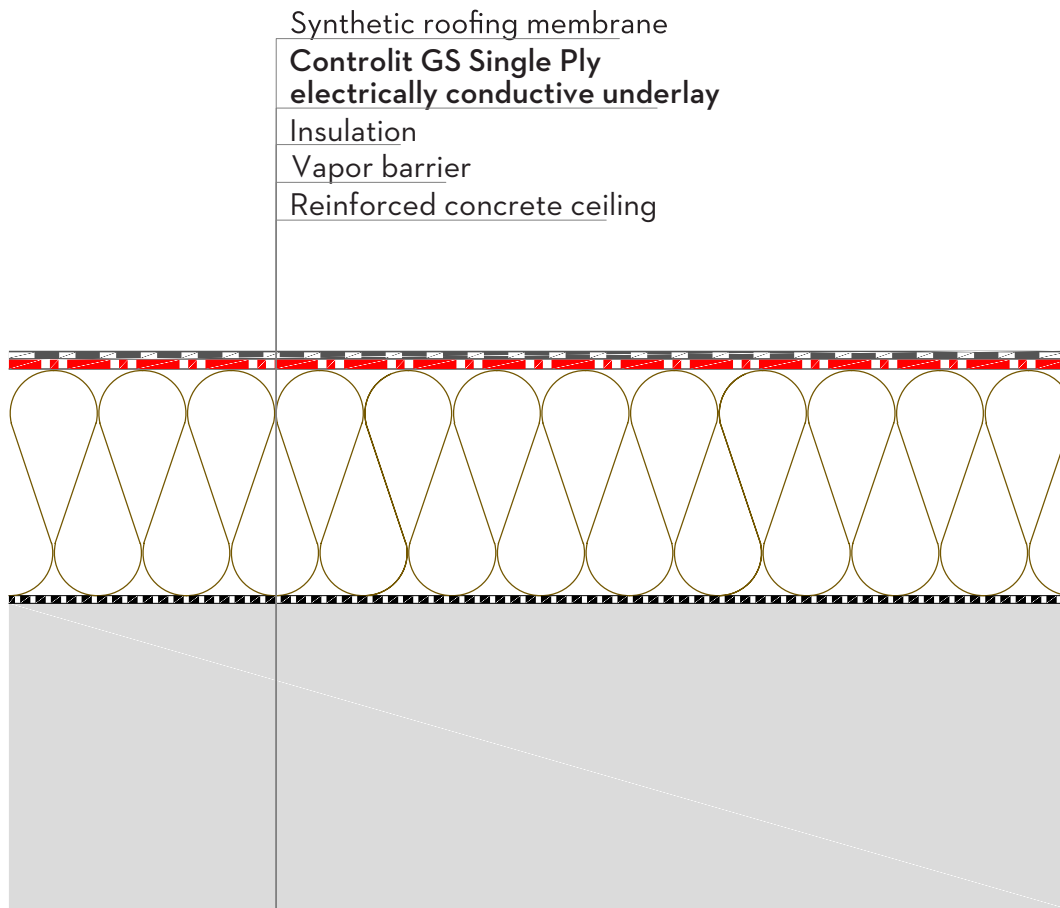
- Install a non-conductive waterproofing membrane.
- Install Controlit® simultaneously with the waterproofing membrane, following the manufacturer's instructions.
- Controlit® is installed loose laid with 10cm overlap.
- Piercing Controlit® does not affect its mechanical strength, conductivity, or testing properties.
- Cuts and damage do not have an impact on Controlit® functional performance.
- No sensors, wires, or data collection units are involved, minimizing the risk of damage and system failure.
- For synthetic membranes, Controlit® GS Single Ply or Controlit PK are mechanically fastened with the waterproofing membrane fasteners.
- For bituminous waterproofing, Controlit® GS is fastened or torched with the first bituminous layer.
- Controlit® underlays can be used as a separation layer between old bituminous and thermoplastic single-ply waterproofing membranes.
- Controlit GS can be torch-treated if needed to fix the first layer of bituminous membrane to the thermal insulation.

The installation of Controlit electroconductive underlay should be done simultaneously with the waterproofing membrane, following the membrane installation instructions issued by the manufacturer.

CONTROLIT GS SINGLE PLY - INSTALLATION PRINCIPLE

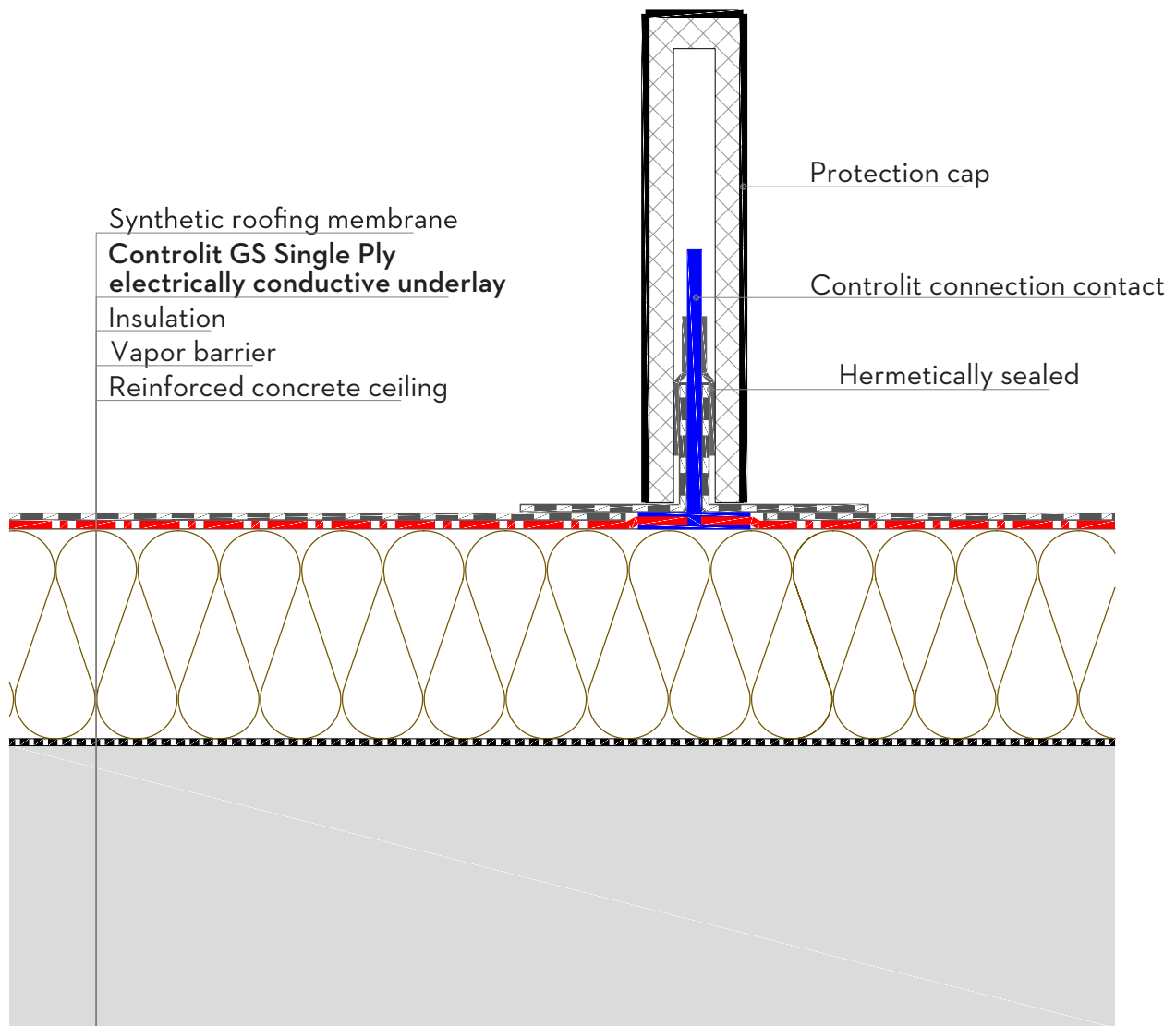
UNDER SYNTHETIC WATERPROOFING





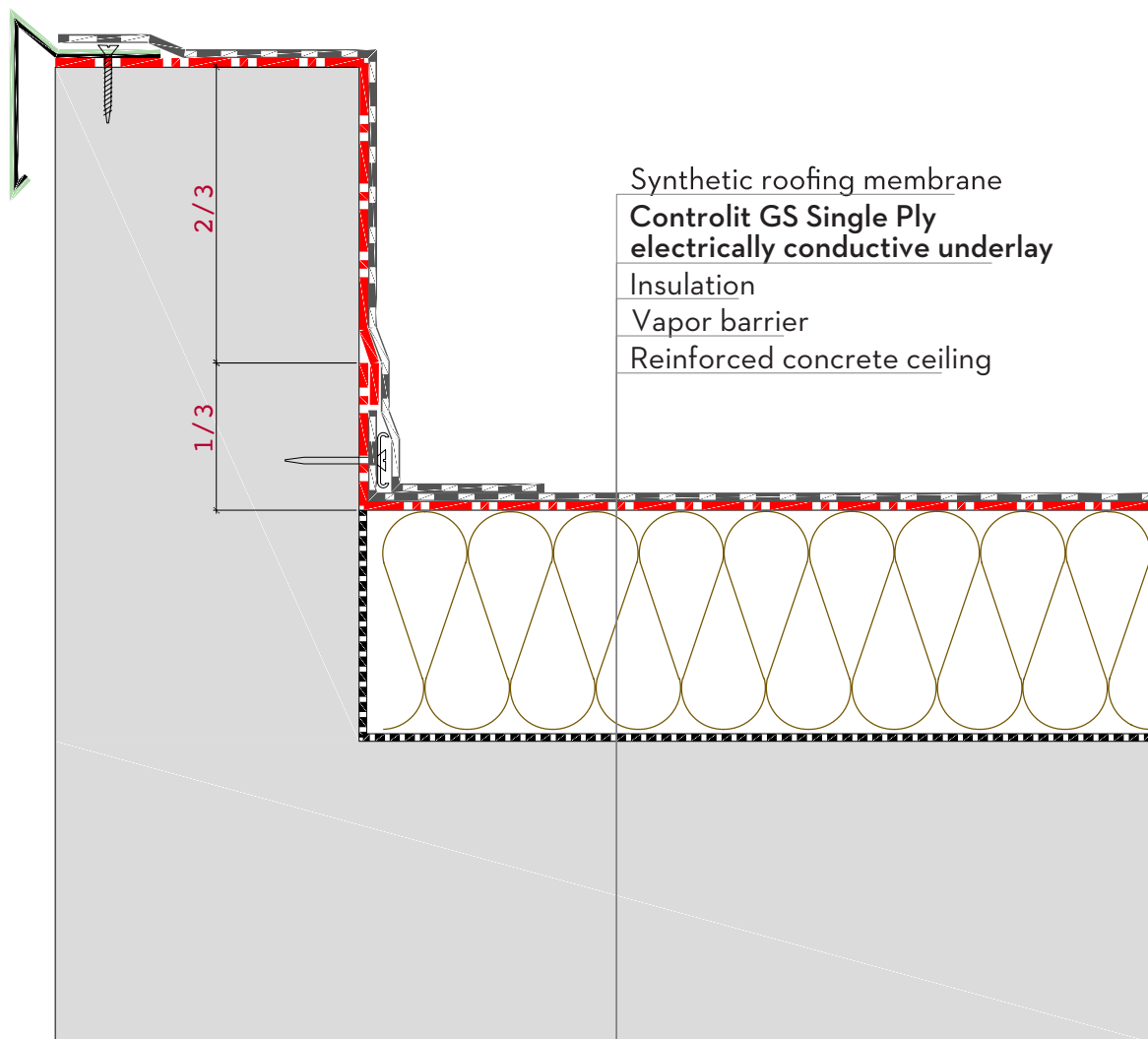
Notes:

- Controlit GS Single Ply - electrically conductive underlay 165 gsm.
- Reaction-to-fire behavior A2-s1, d0.
- Controlit underlay provides waterproofing scanning quickly and non-destructively using voltage electronic leak detection (ELD) method. For non-conductive waterproofing membranes.
- Install right under inspectable waterproofing.
- Controlit connection contacts provide connection between inspection device and electrically conductive Controlit underlay.
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- All connection contacts must be in the zone of lightning protection.
- To ensure the watertightness of contact, a special collar for synthetic waterproofing must be used.



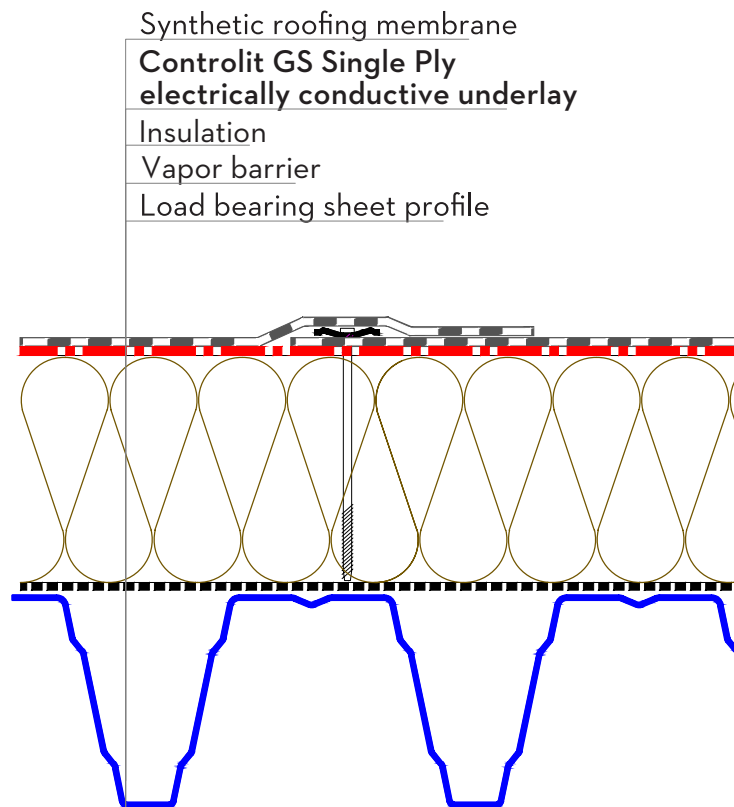
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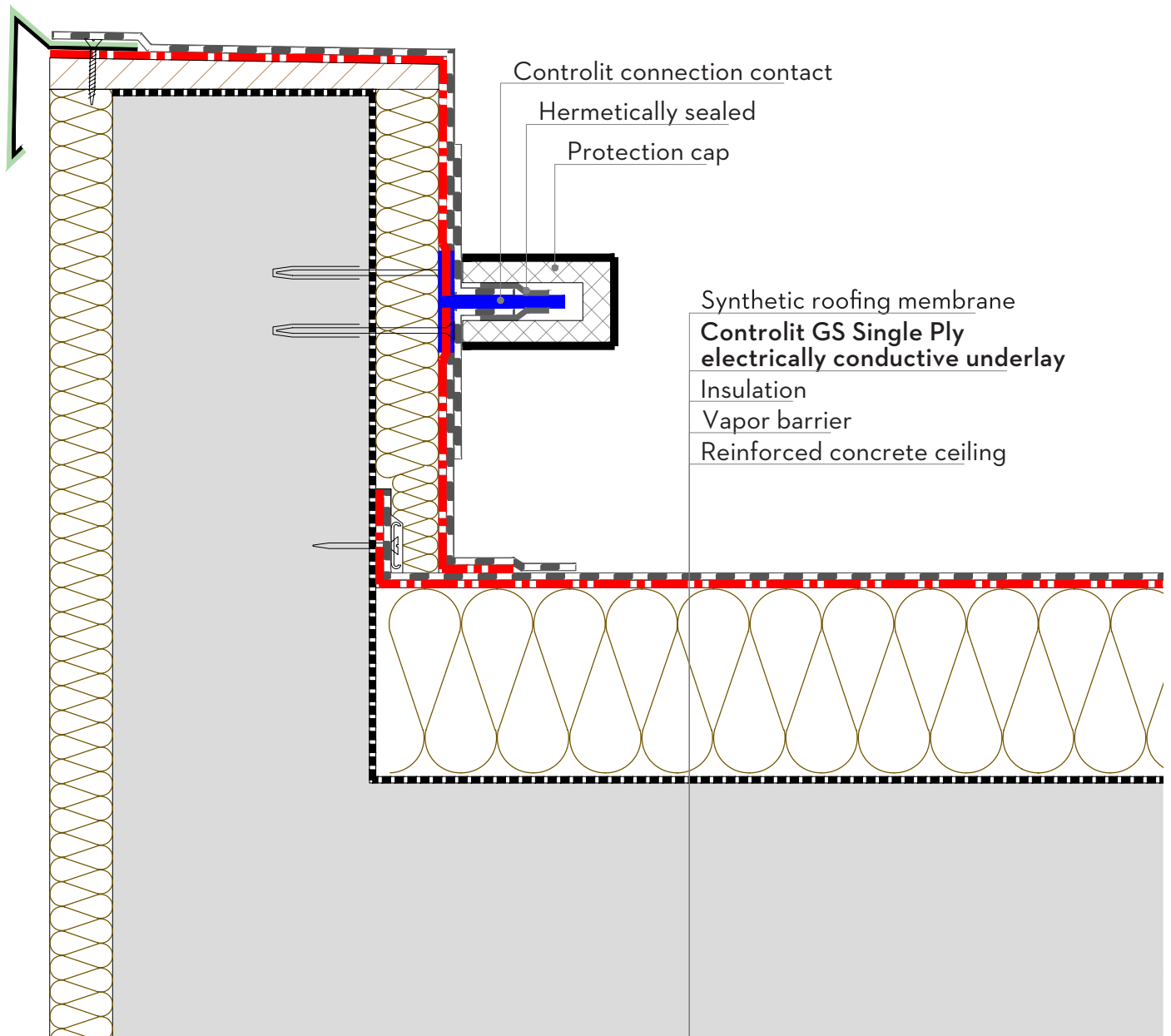
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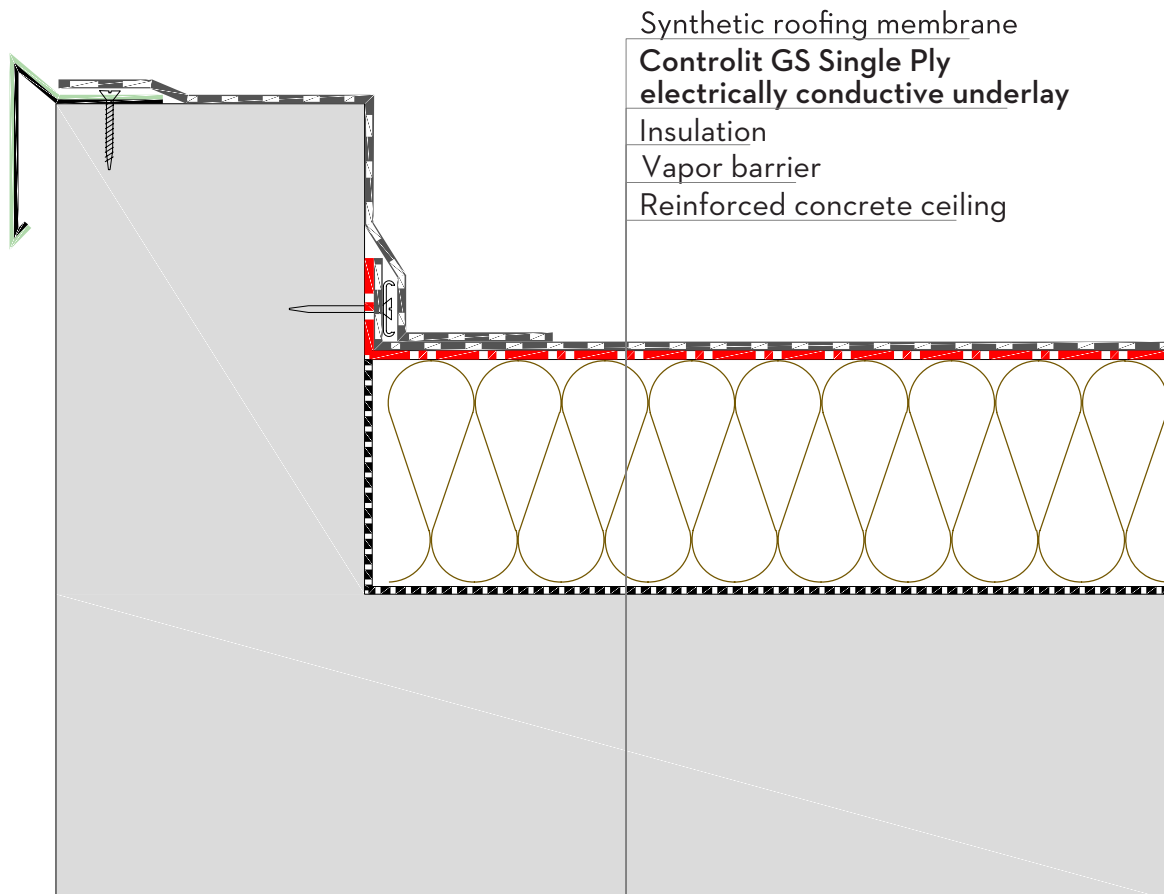
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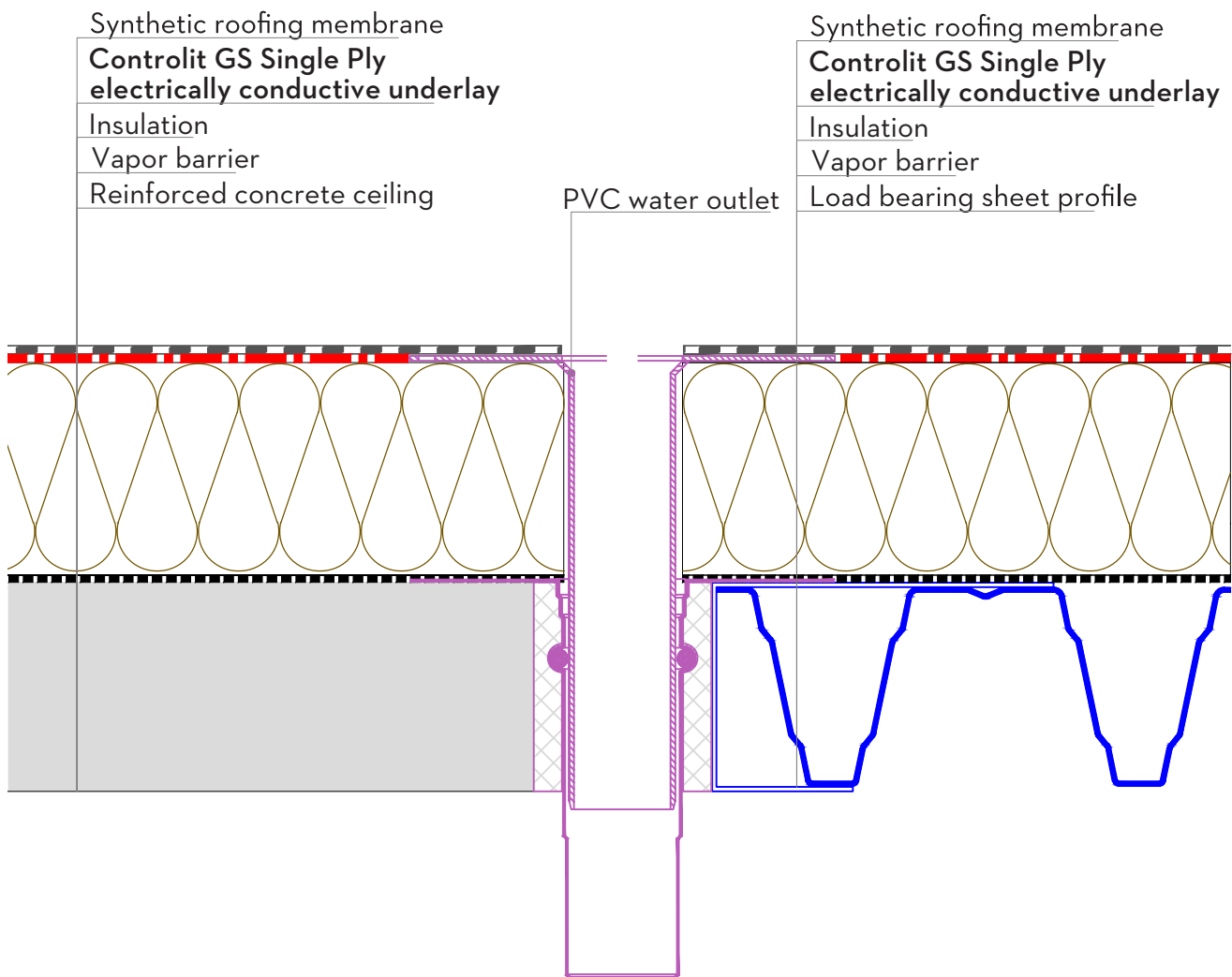
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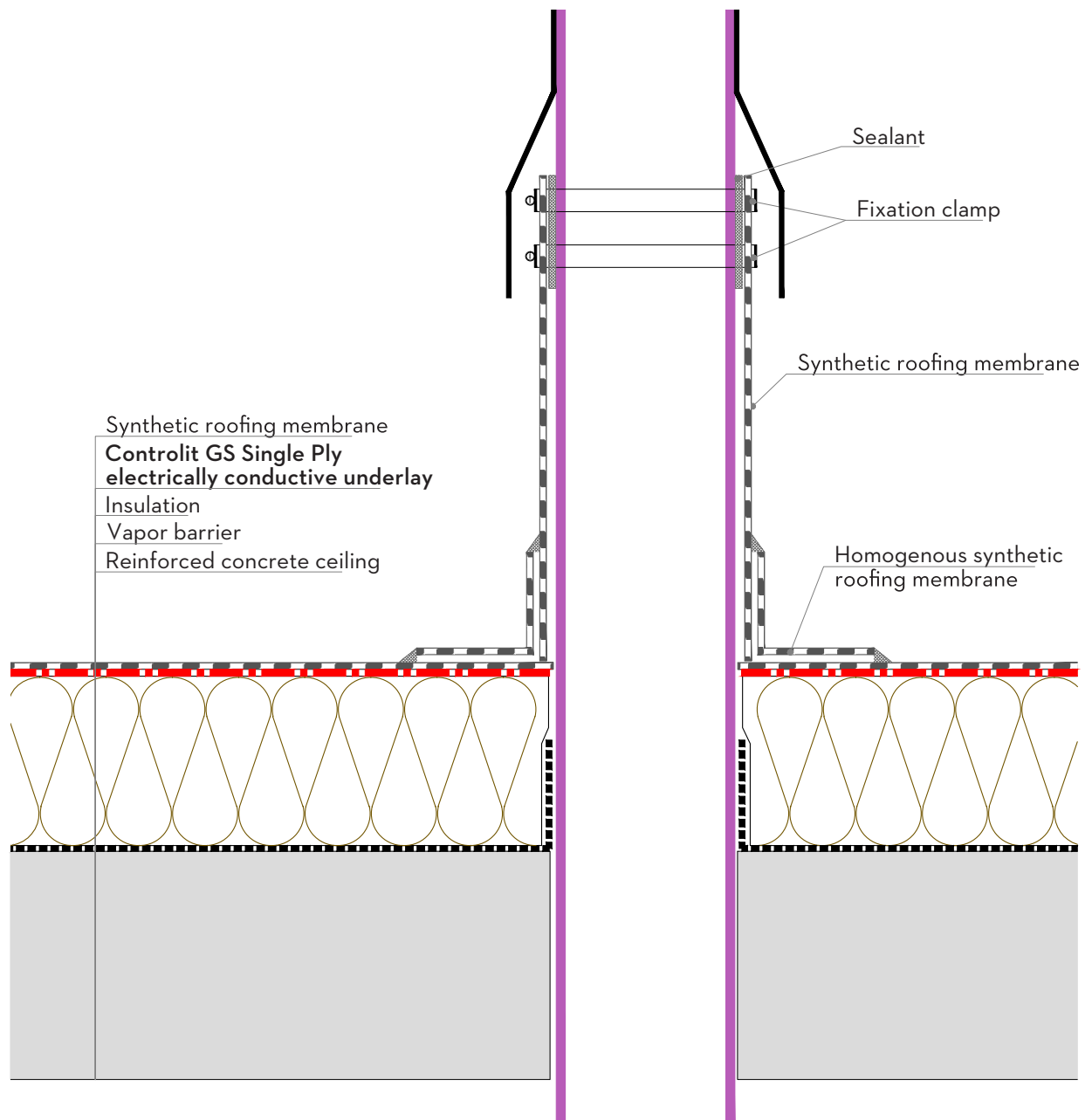
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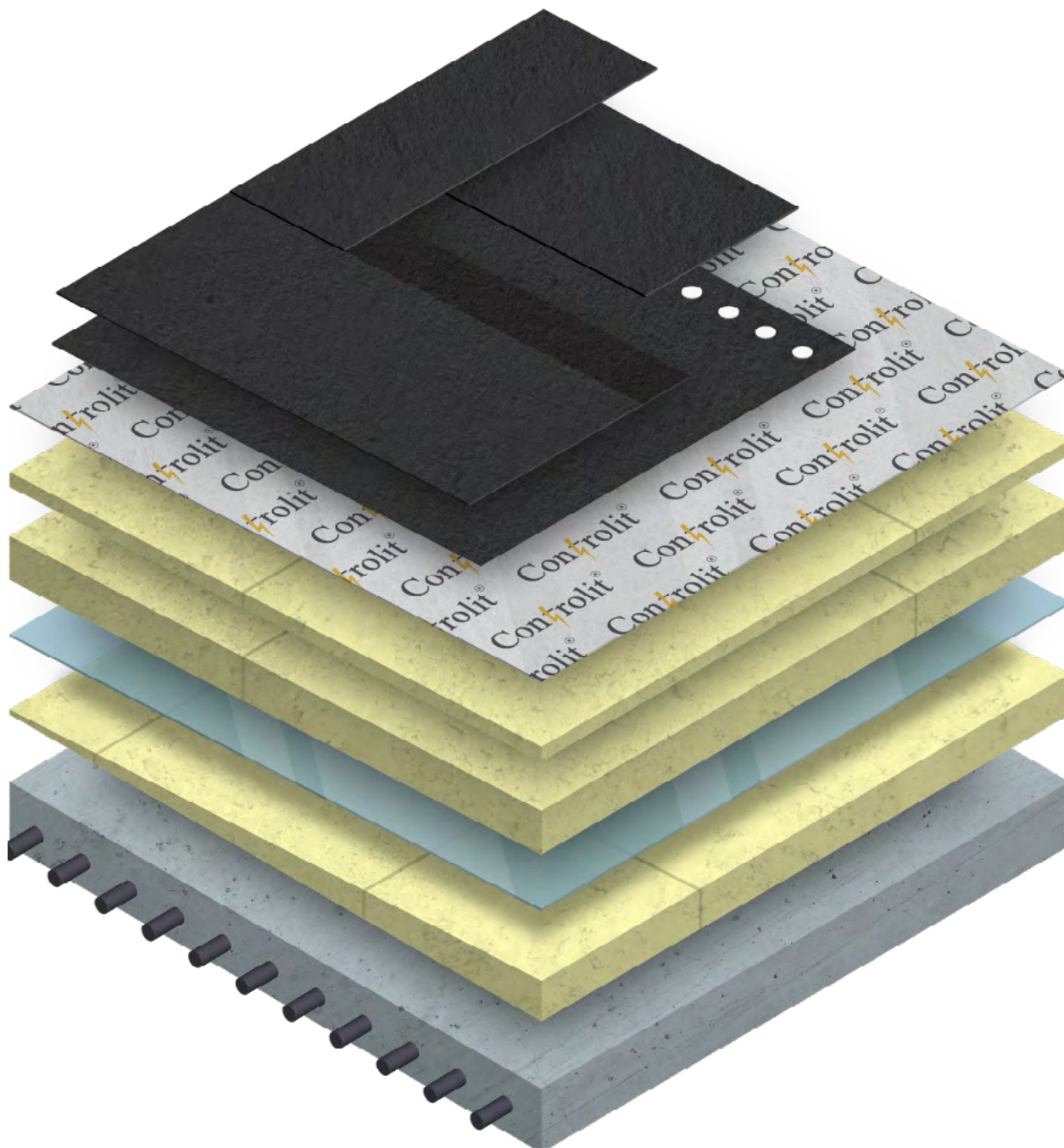


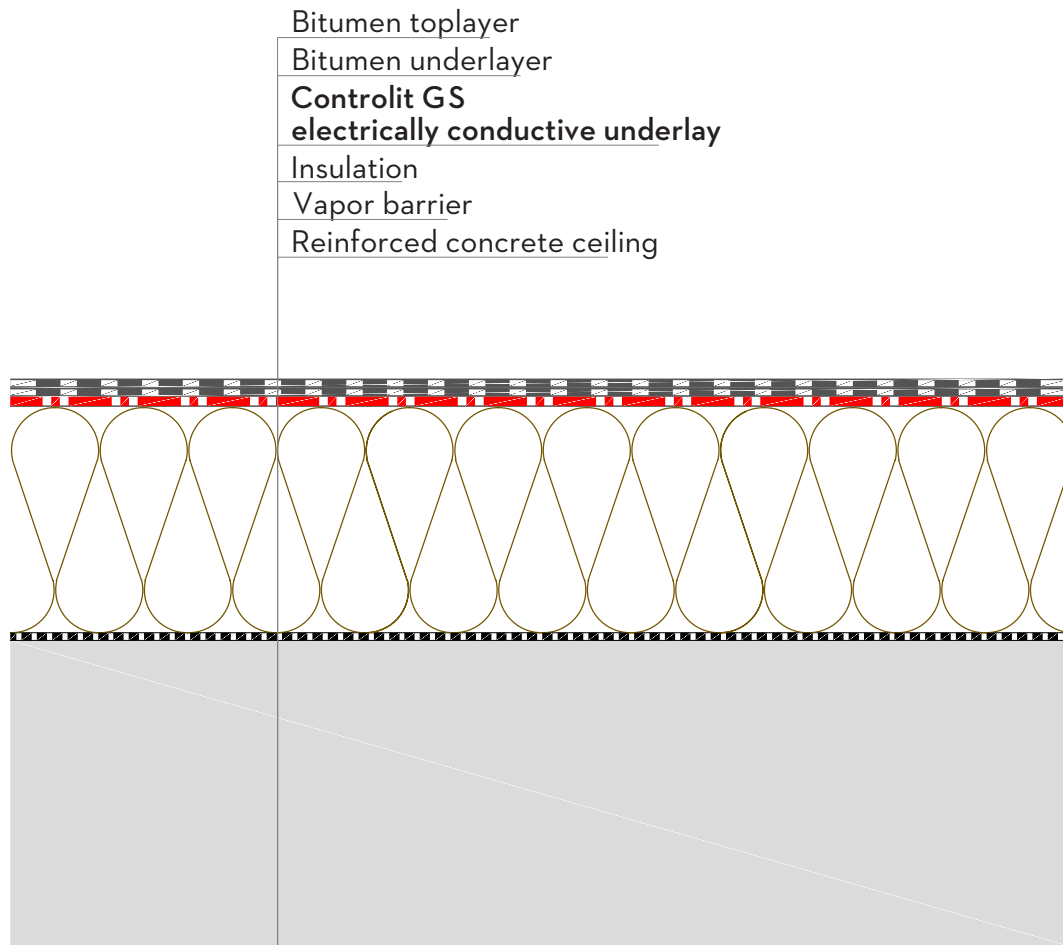
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CONTROLIT GS - INSTALLATION PRINCIPLE

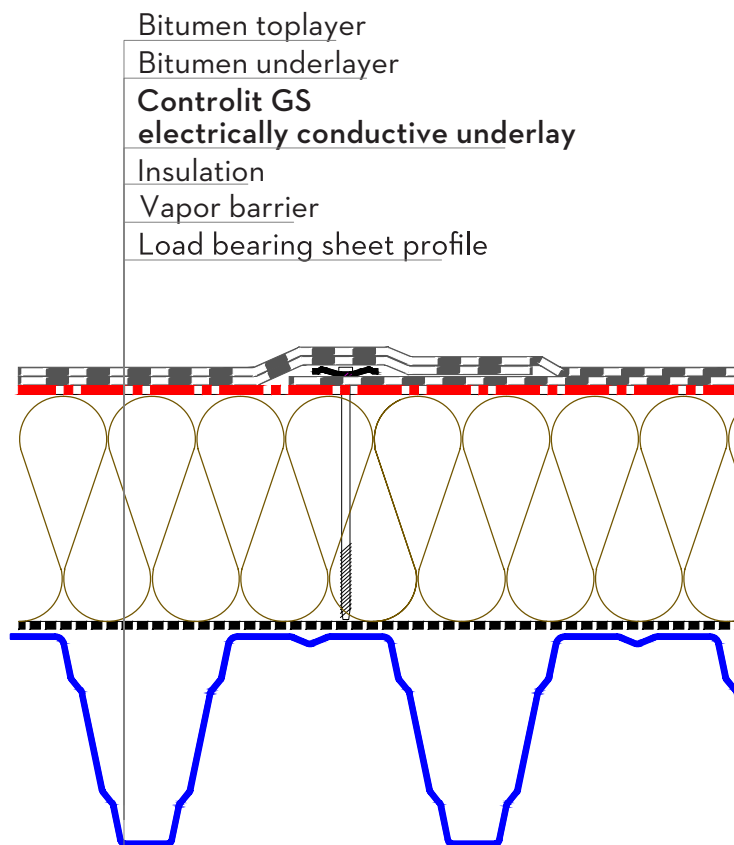
UNDER BITUMINOUS WATERPROOFING





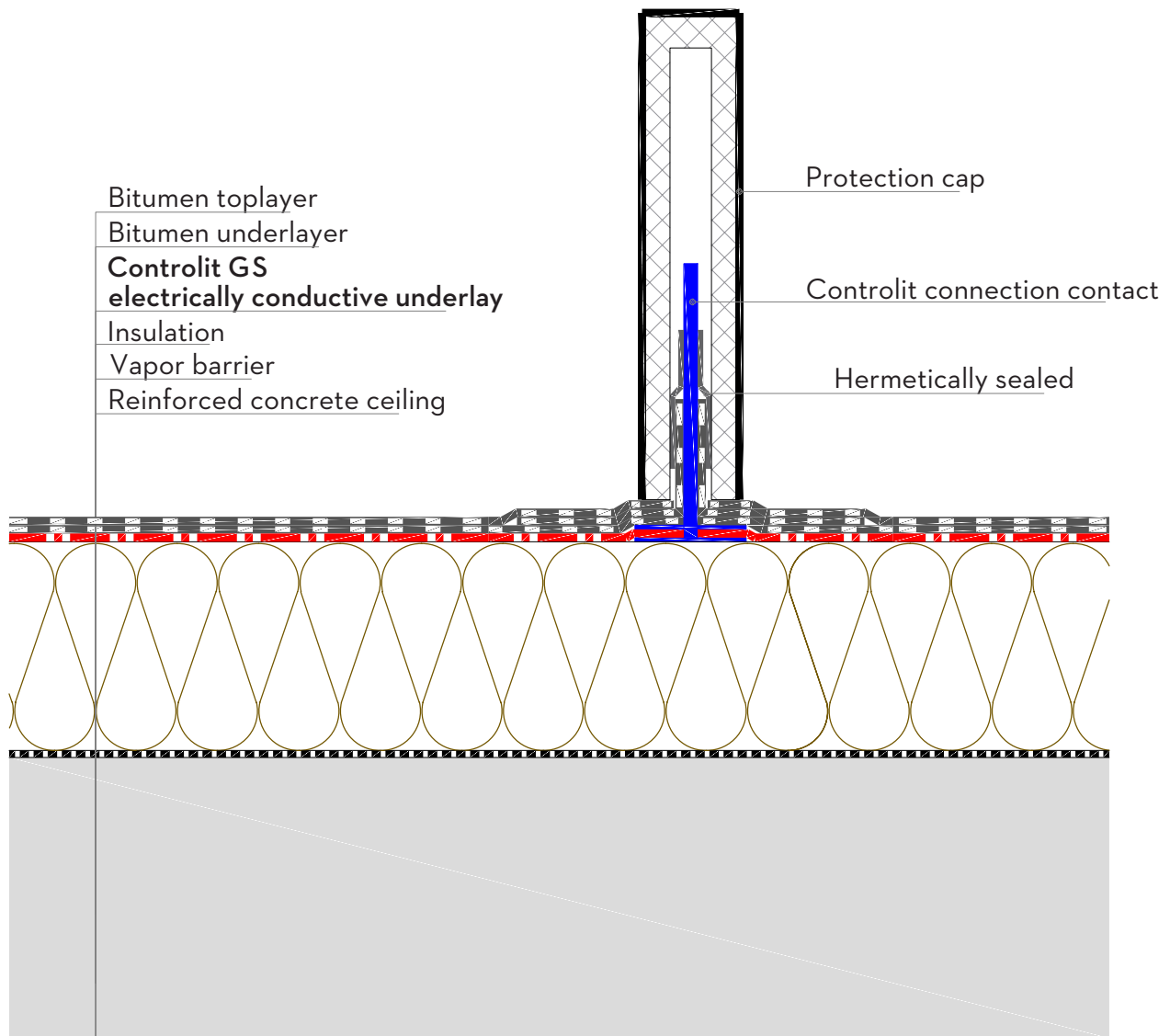
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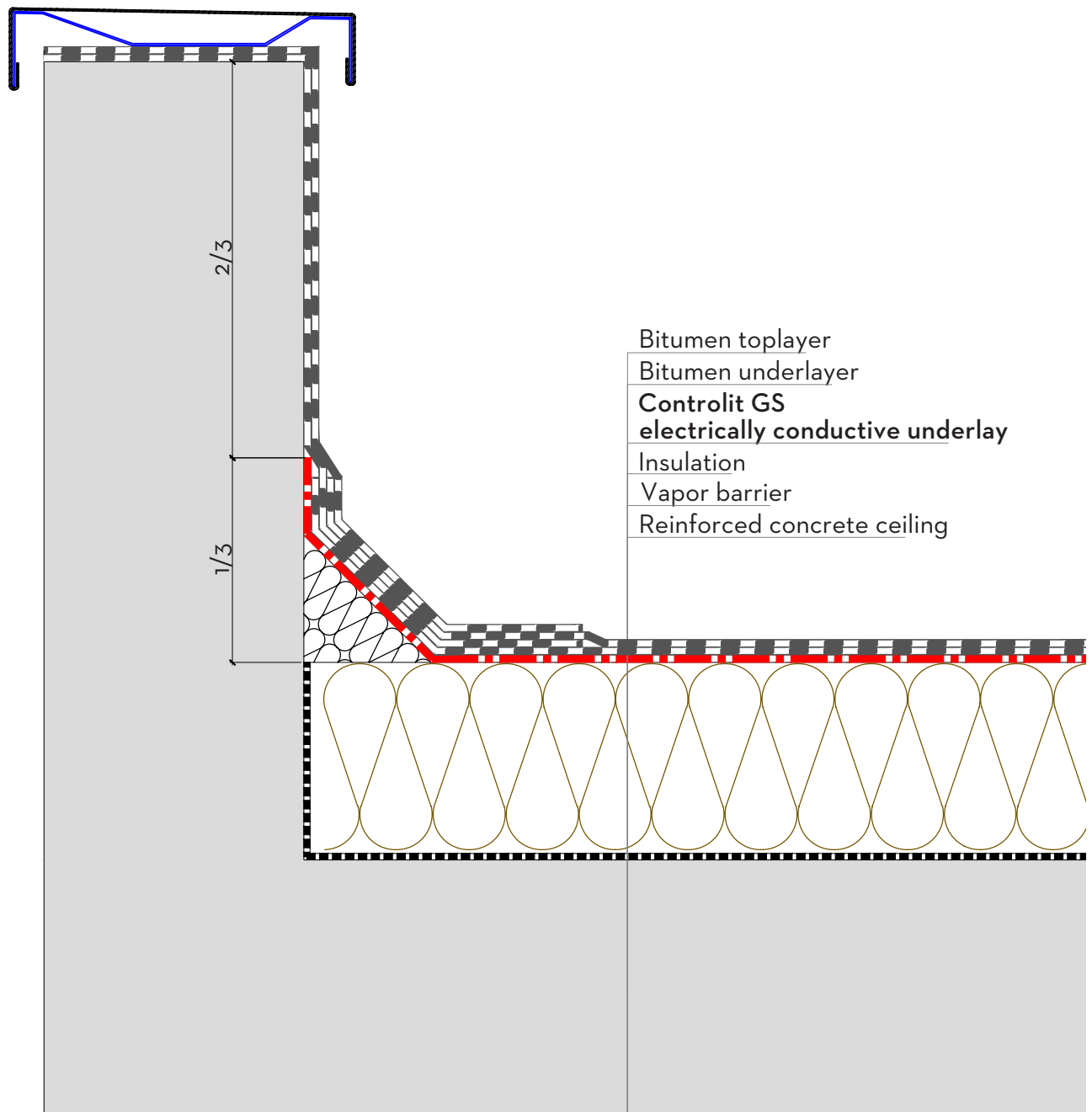
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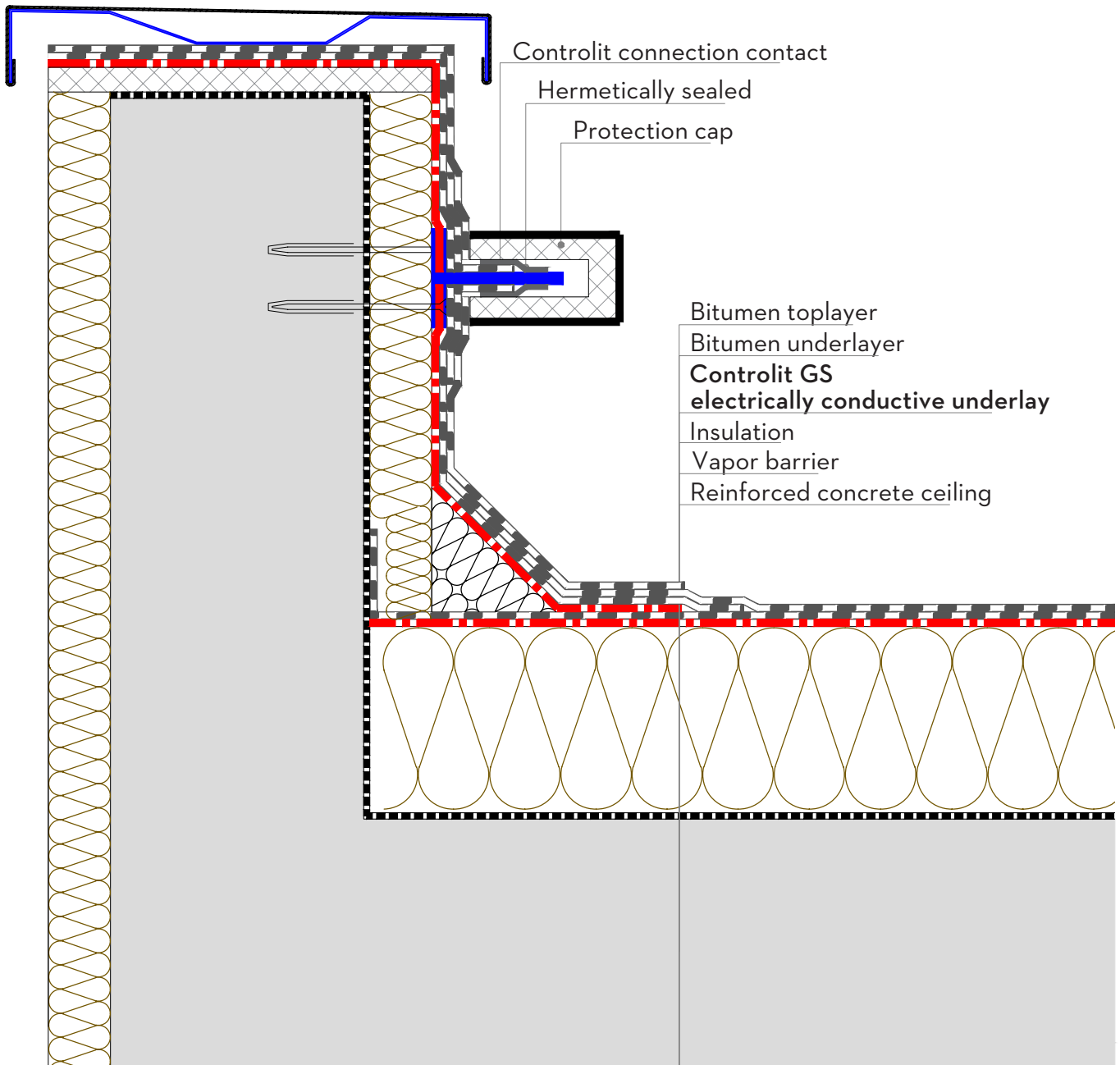
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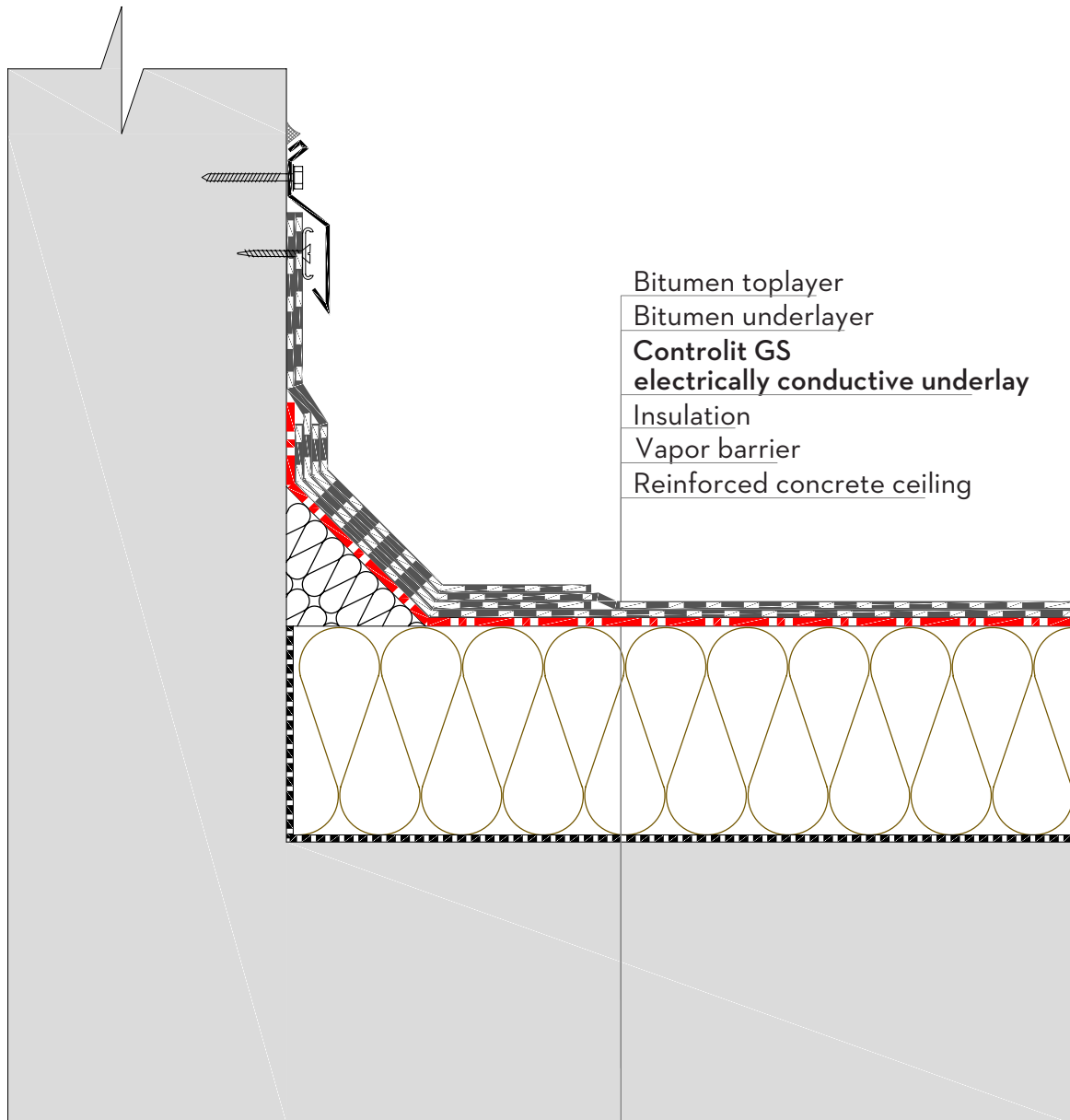
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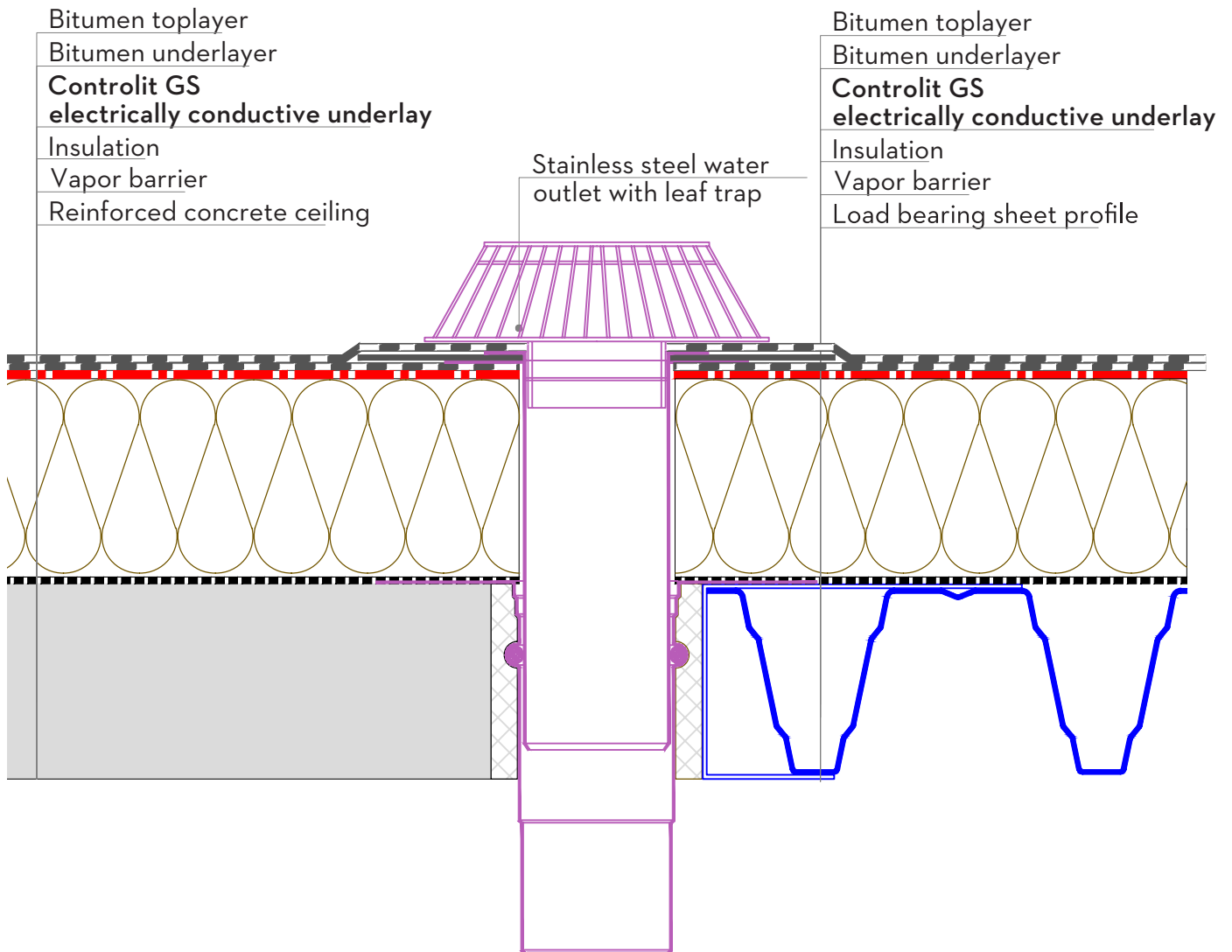
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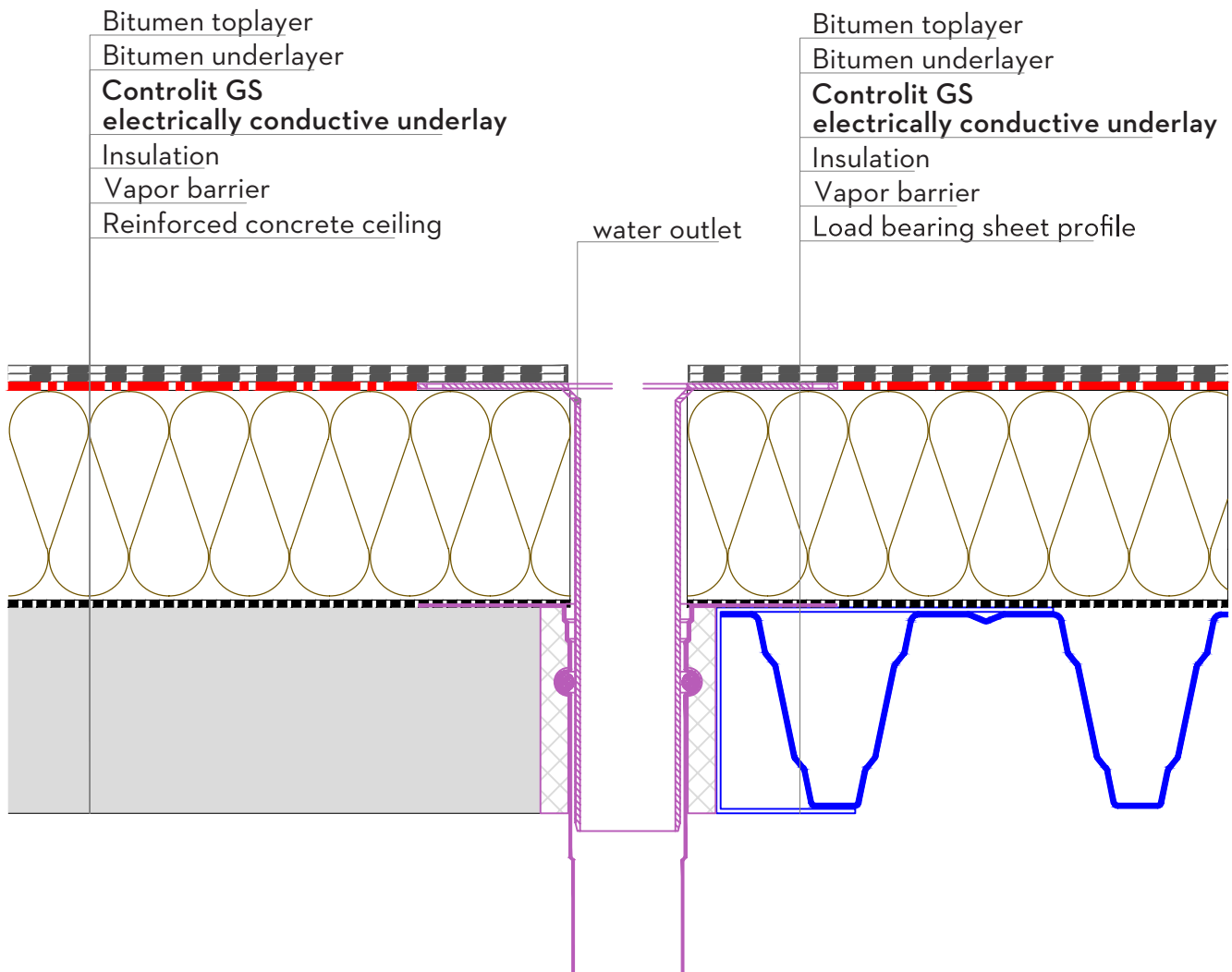
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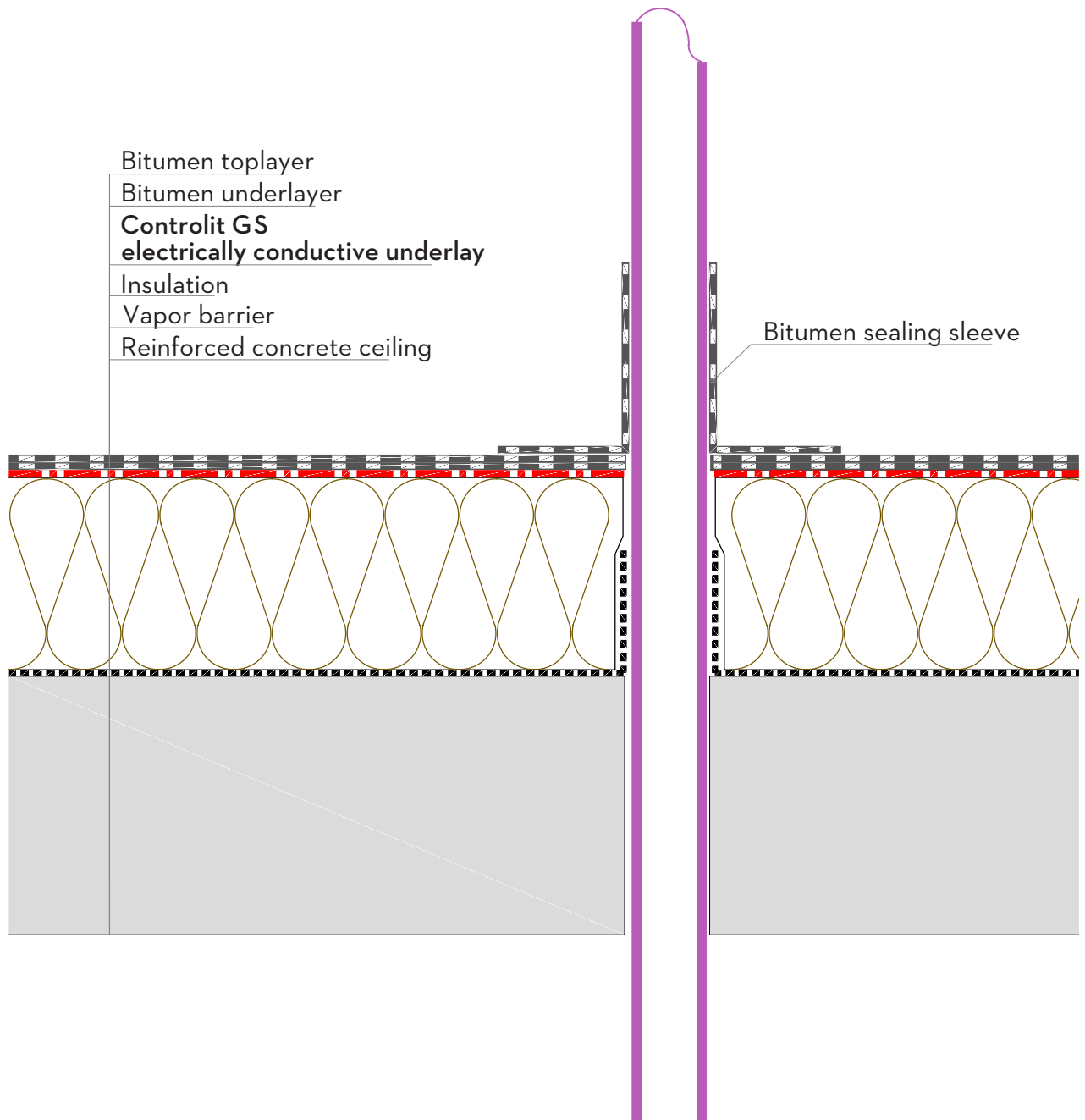
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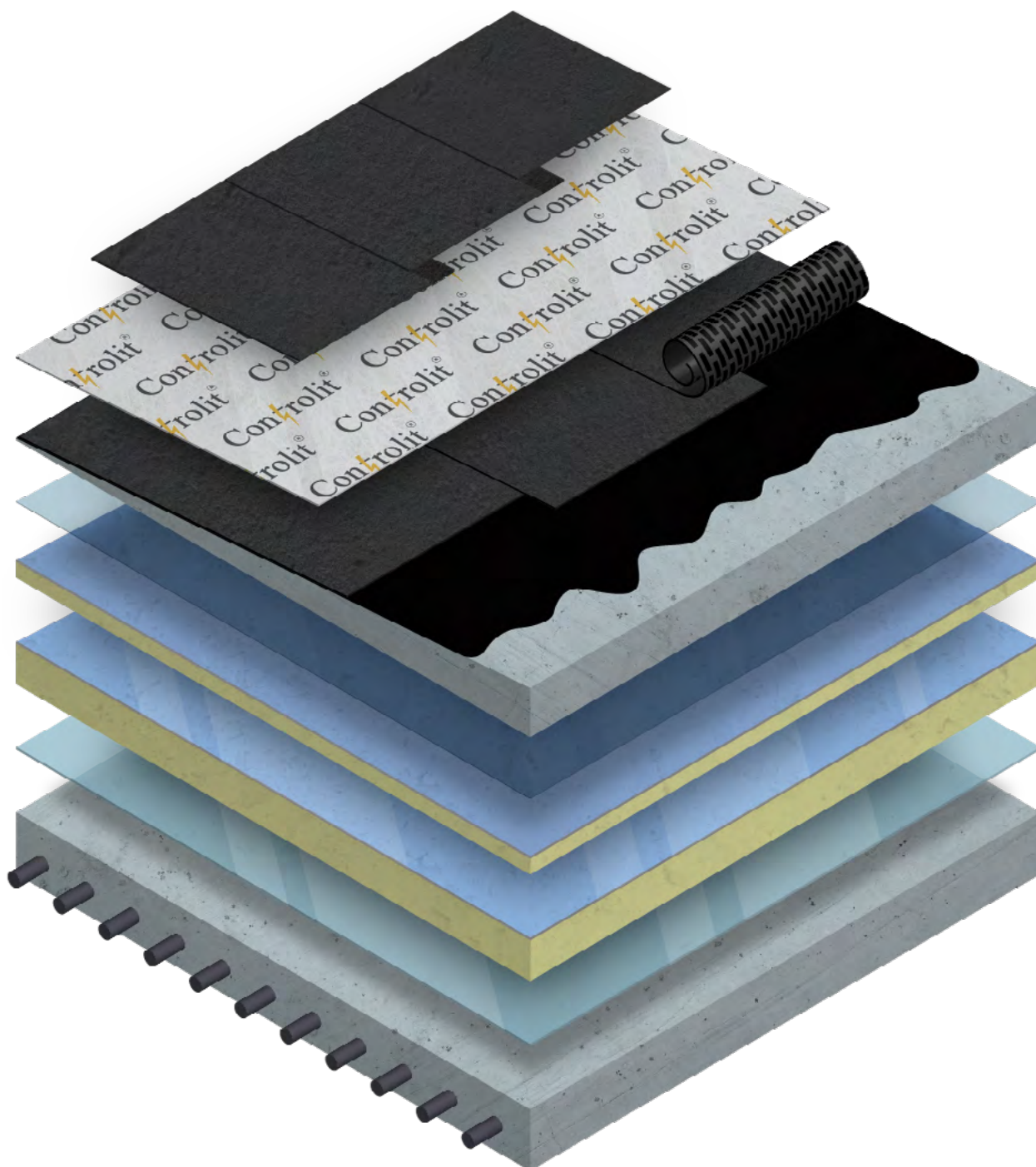
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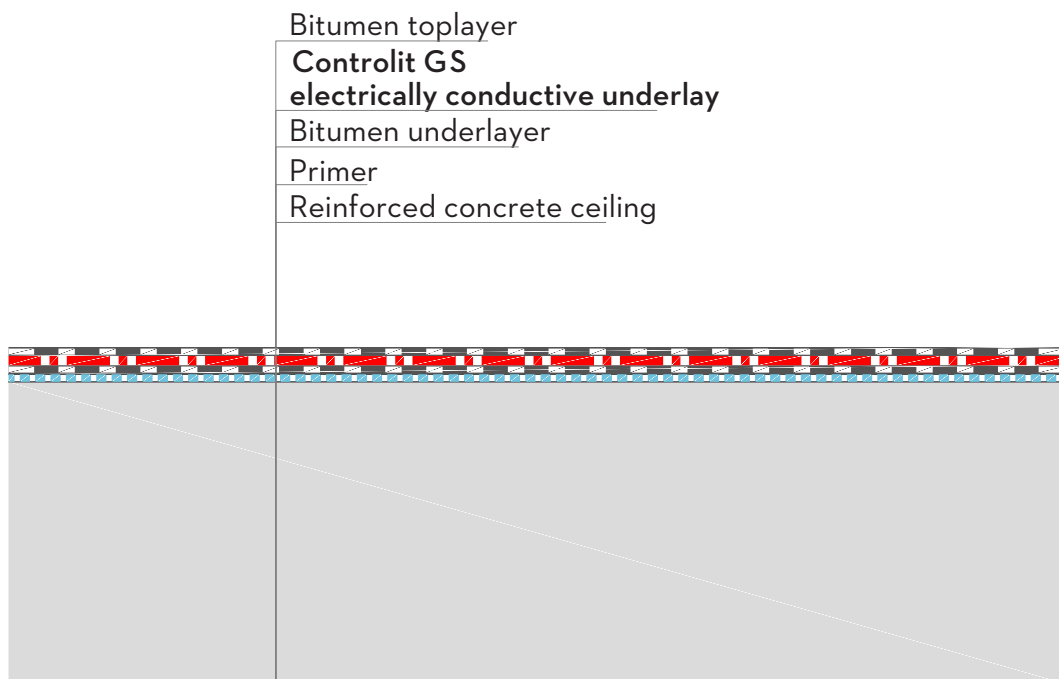


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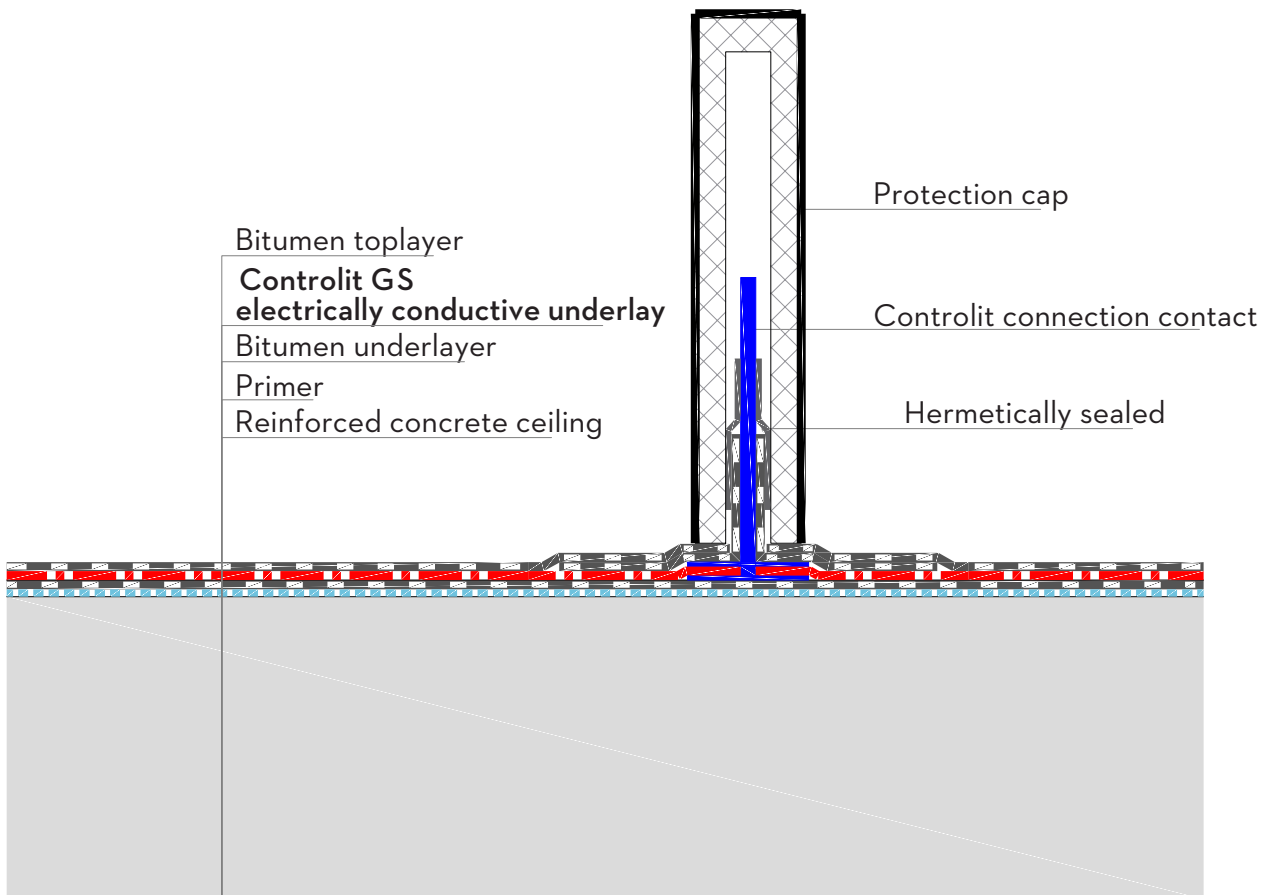
CONTROLIT GS - INSTALLATION PRINCIPLE BETWEEN BITUMINOUS WATERPROOFING





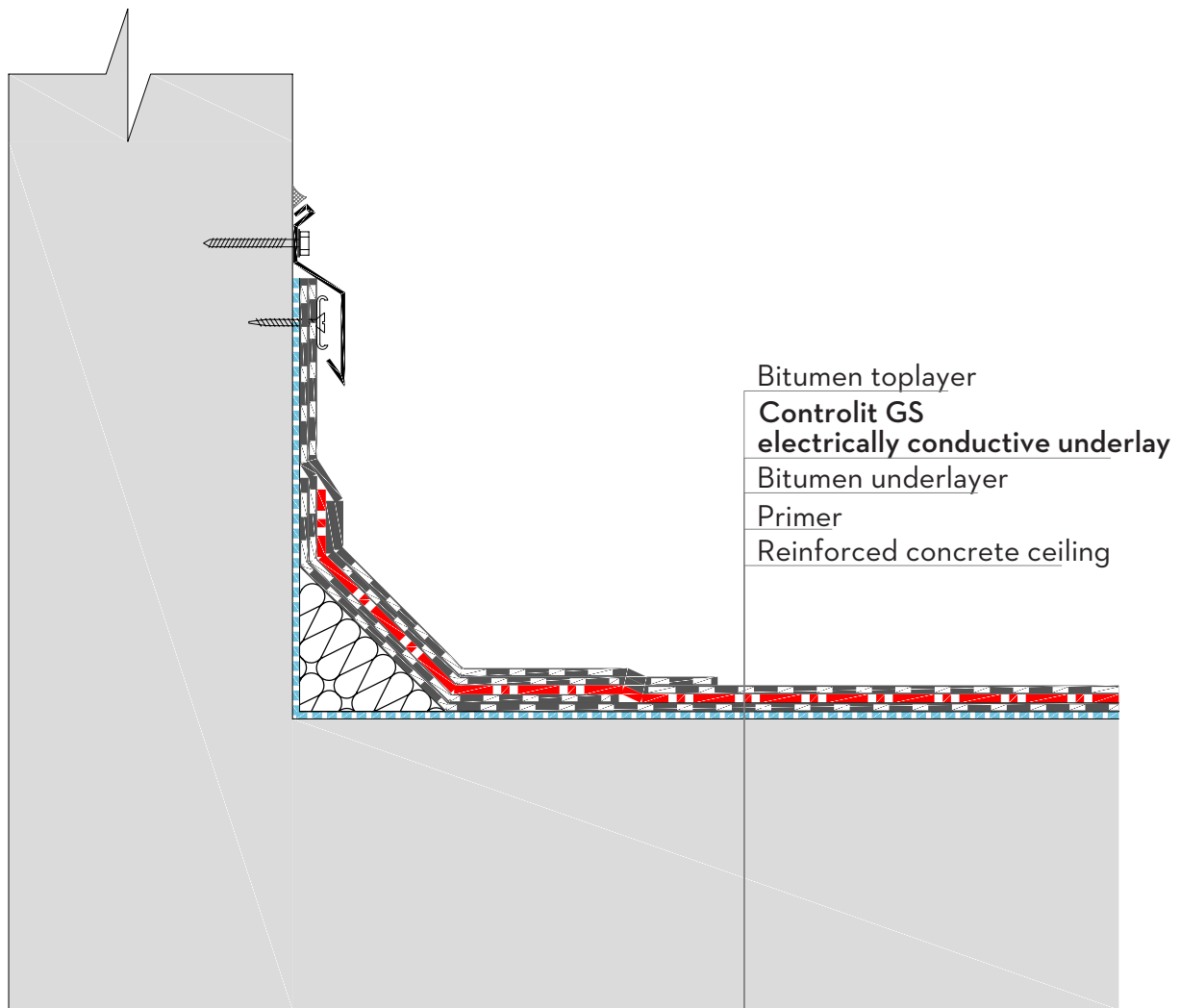
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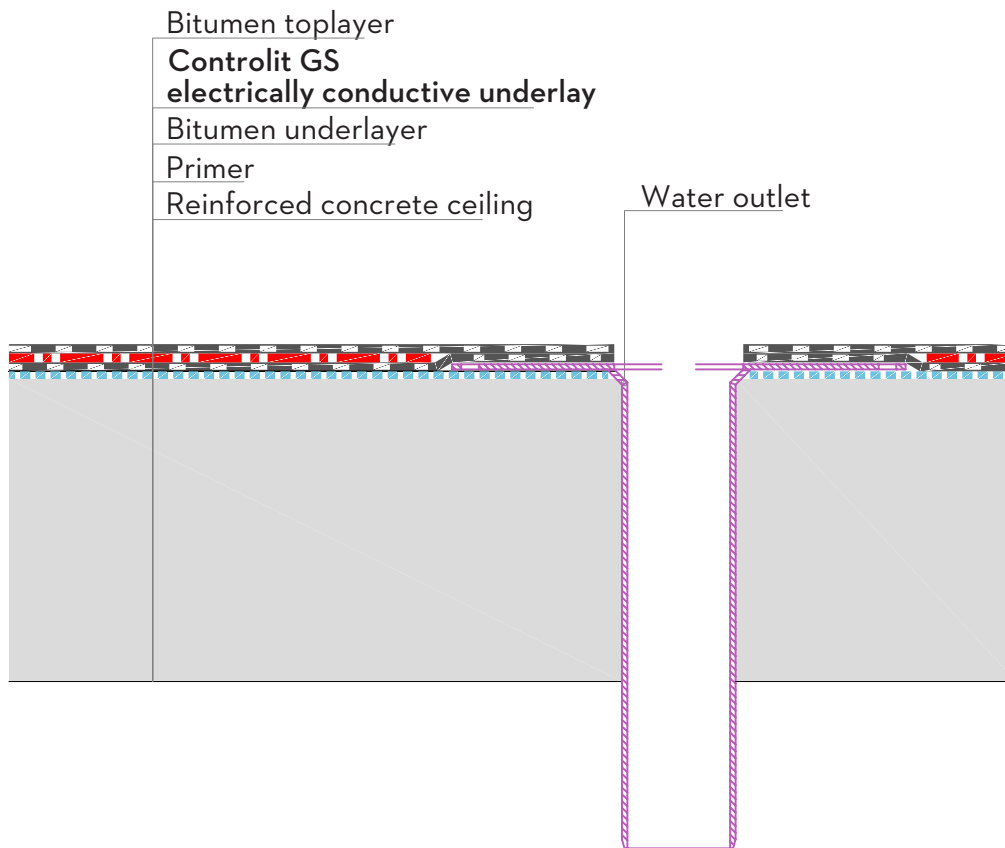
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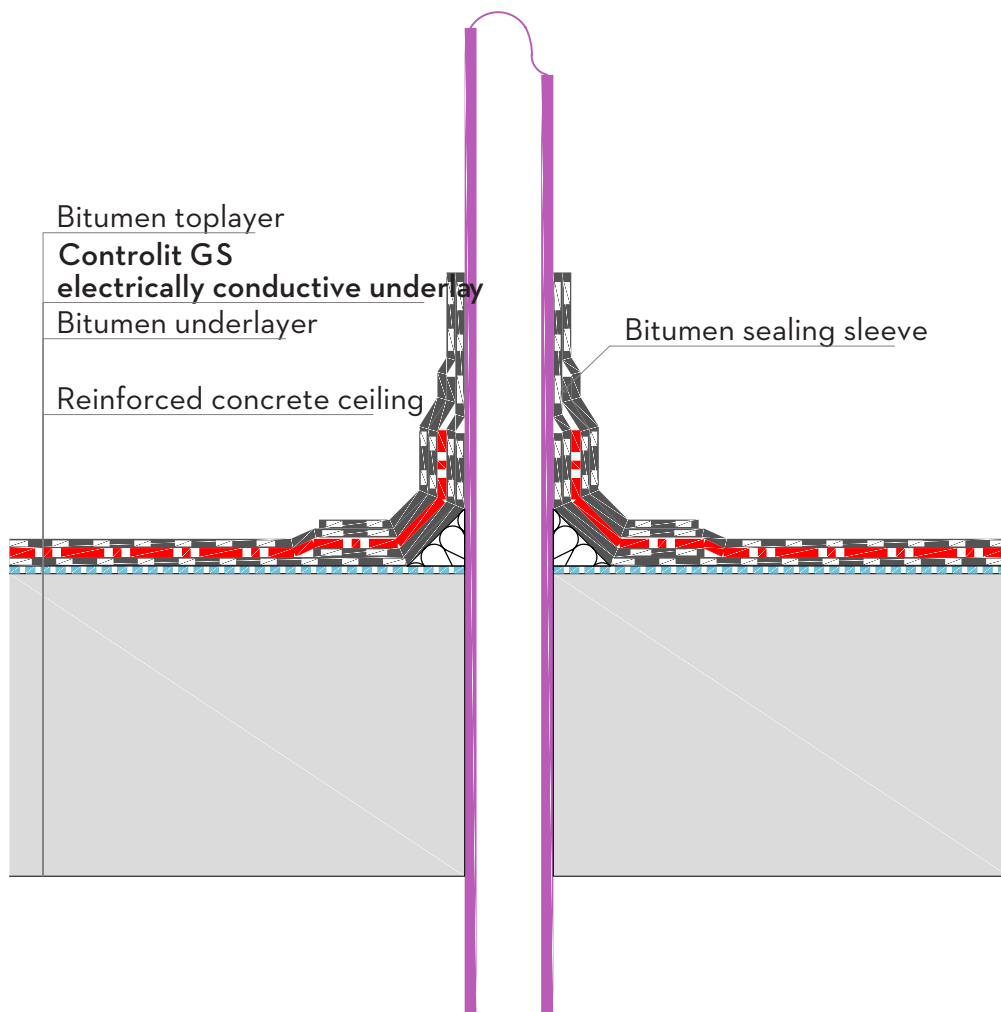
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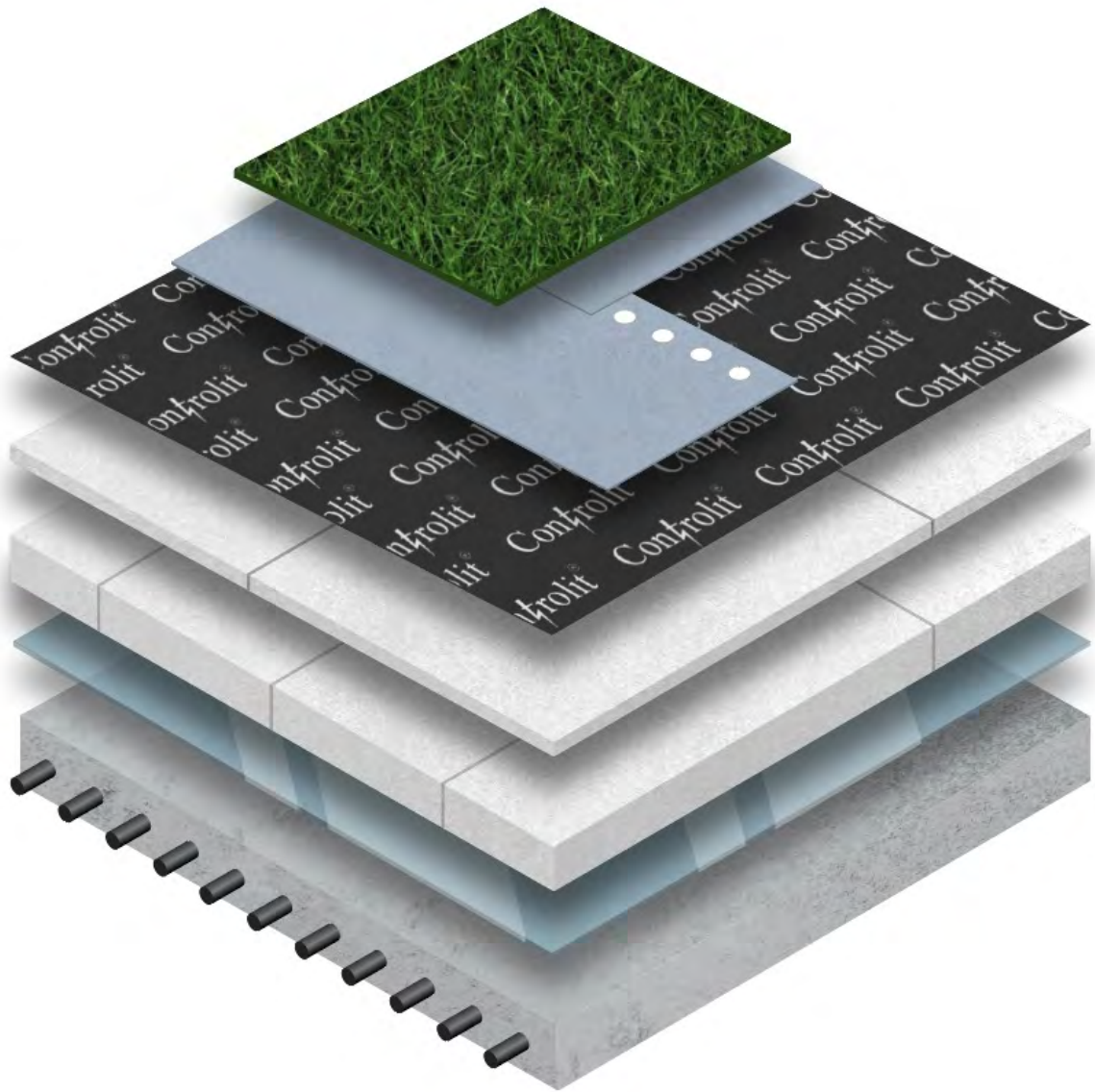


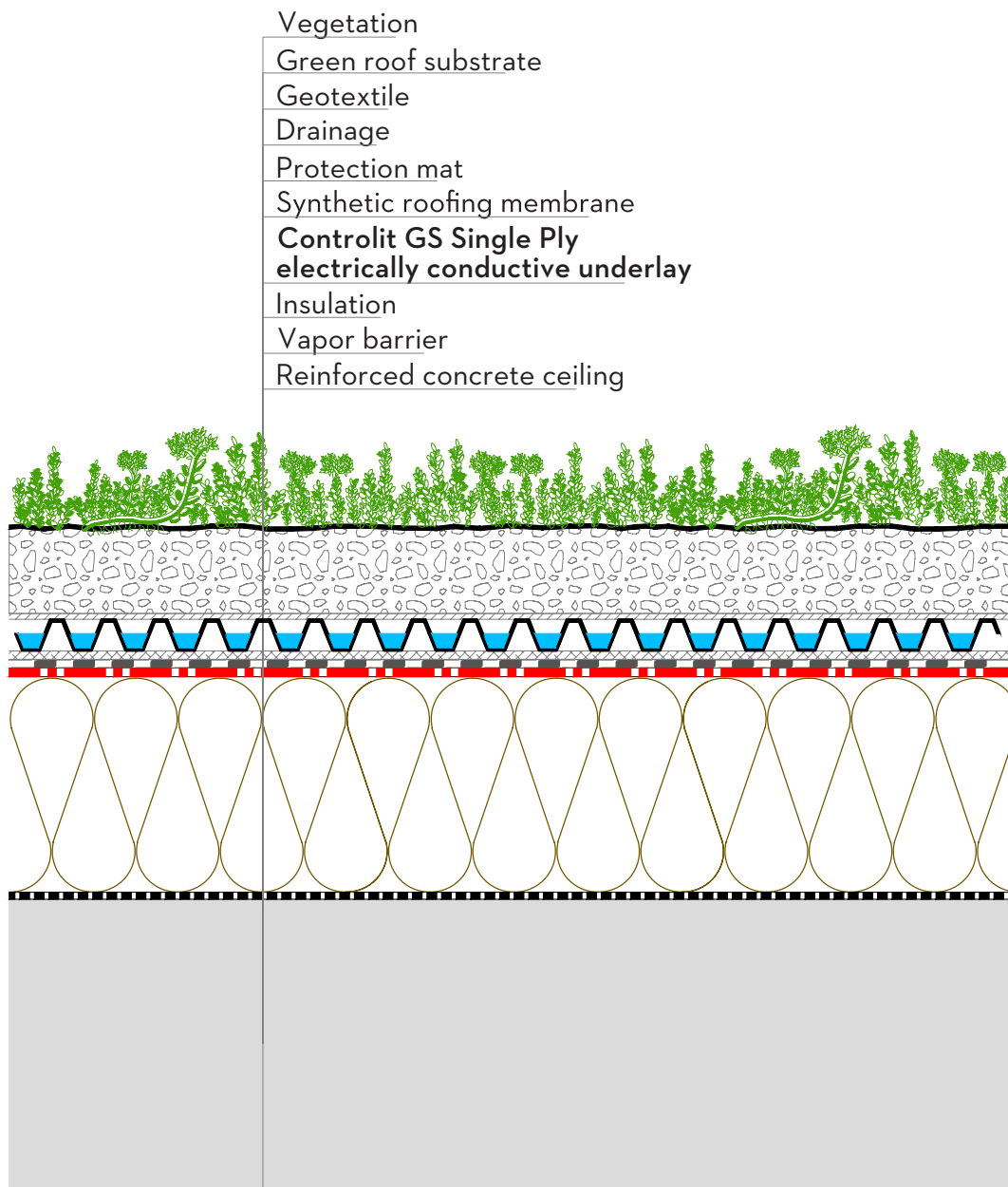
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CONTROLIT FOR GREEN ROOFS

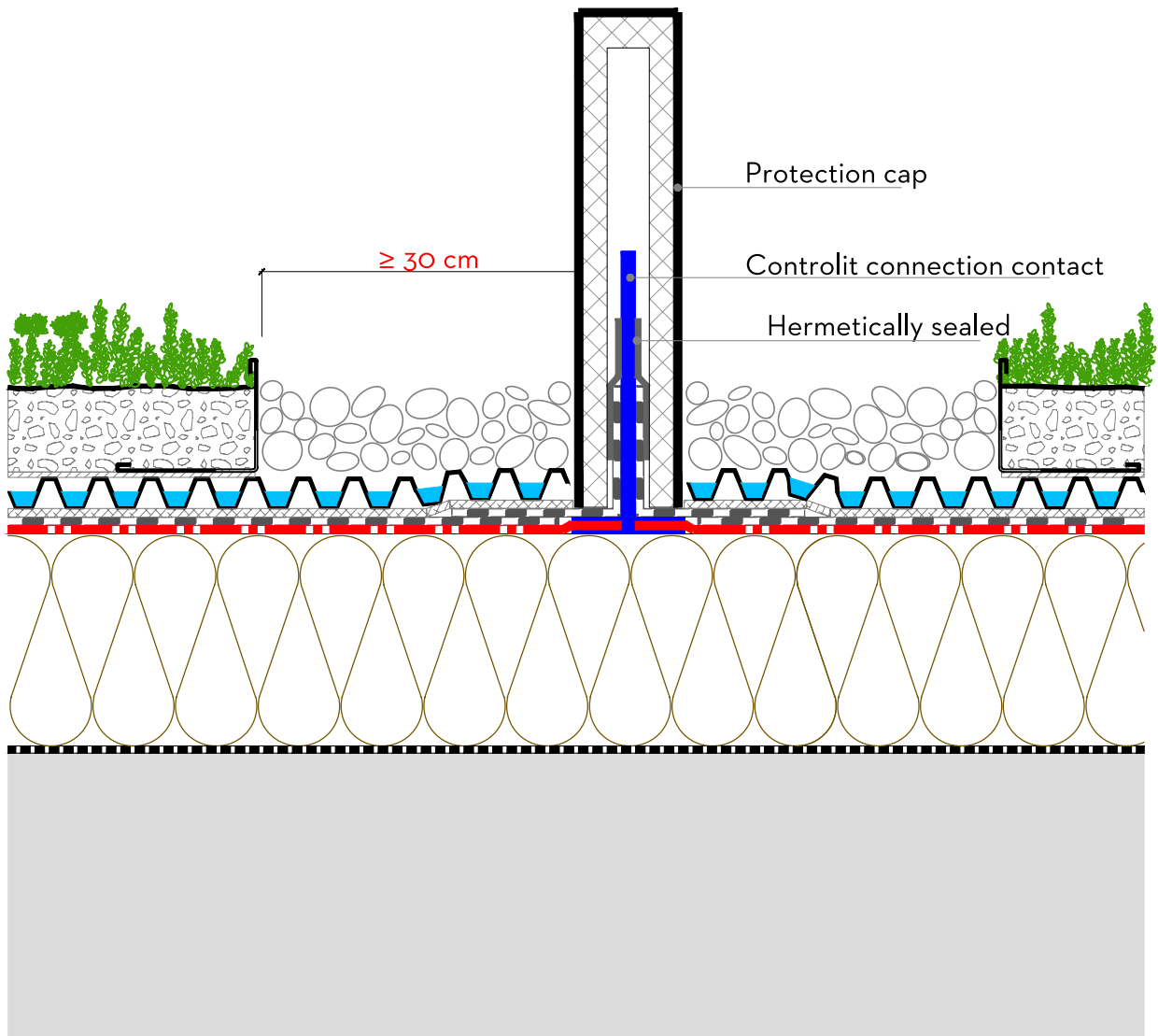
INSTALLATION PRINCIPLES





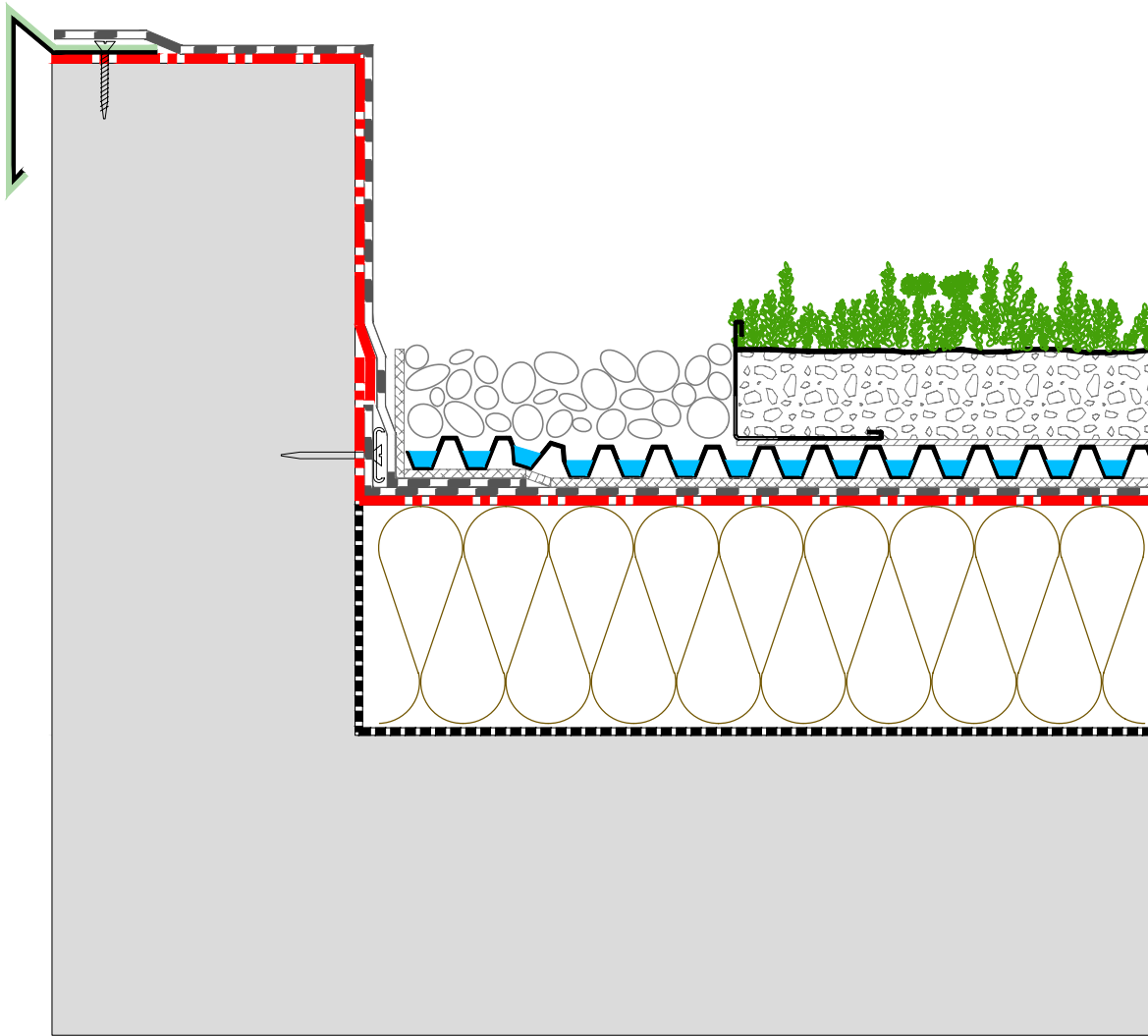
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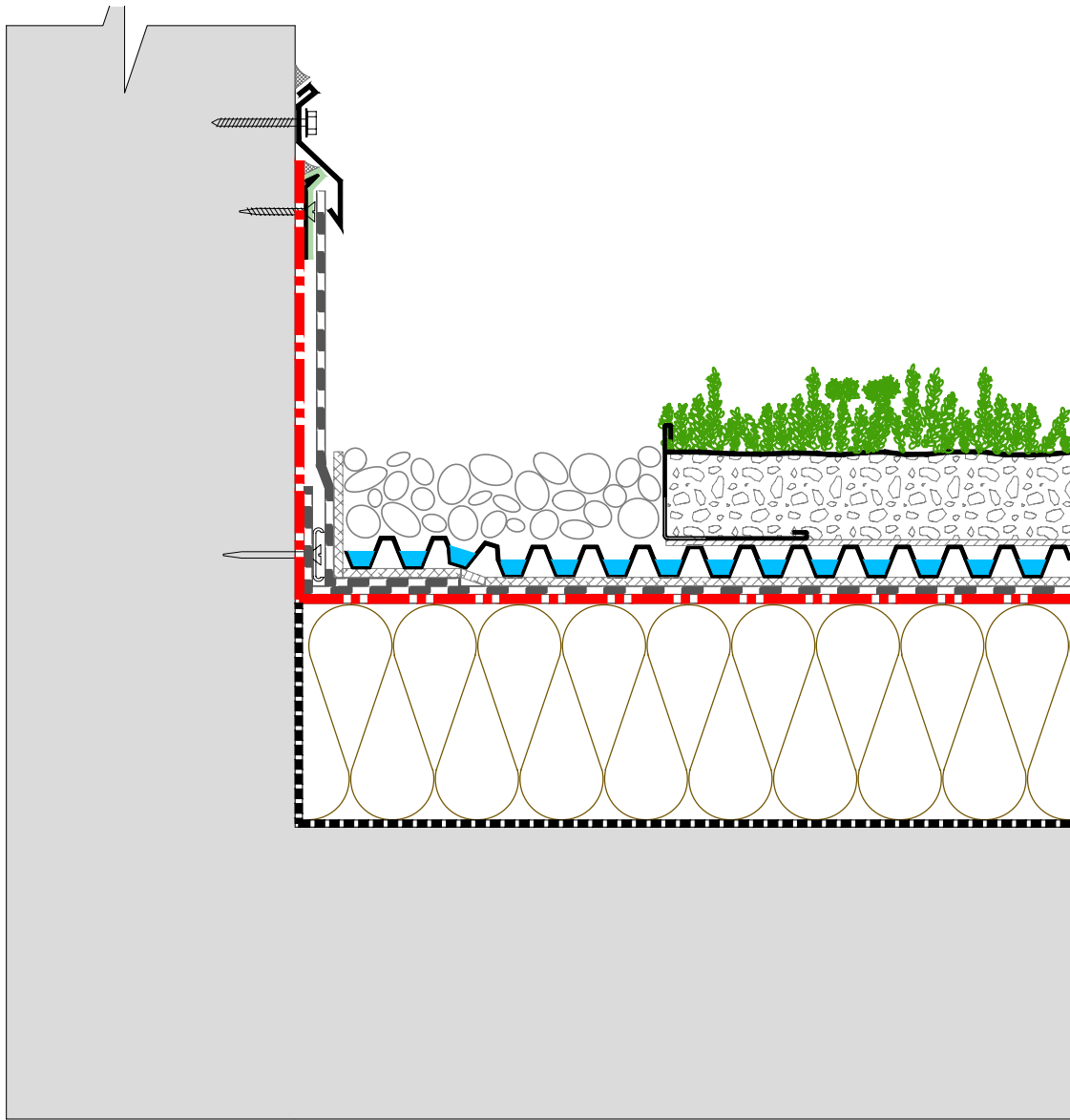
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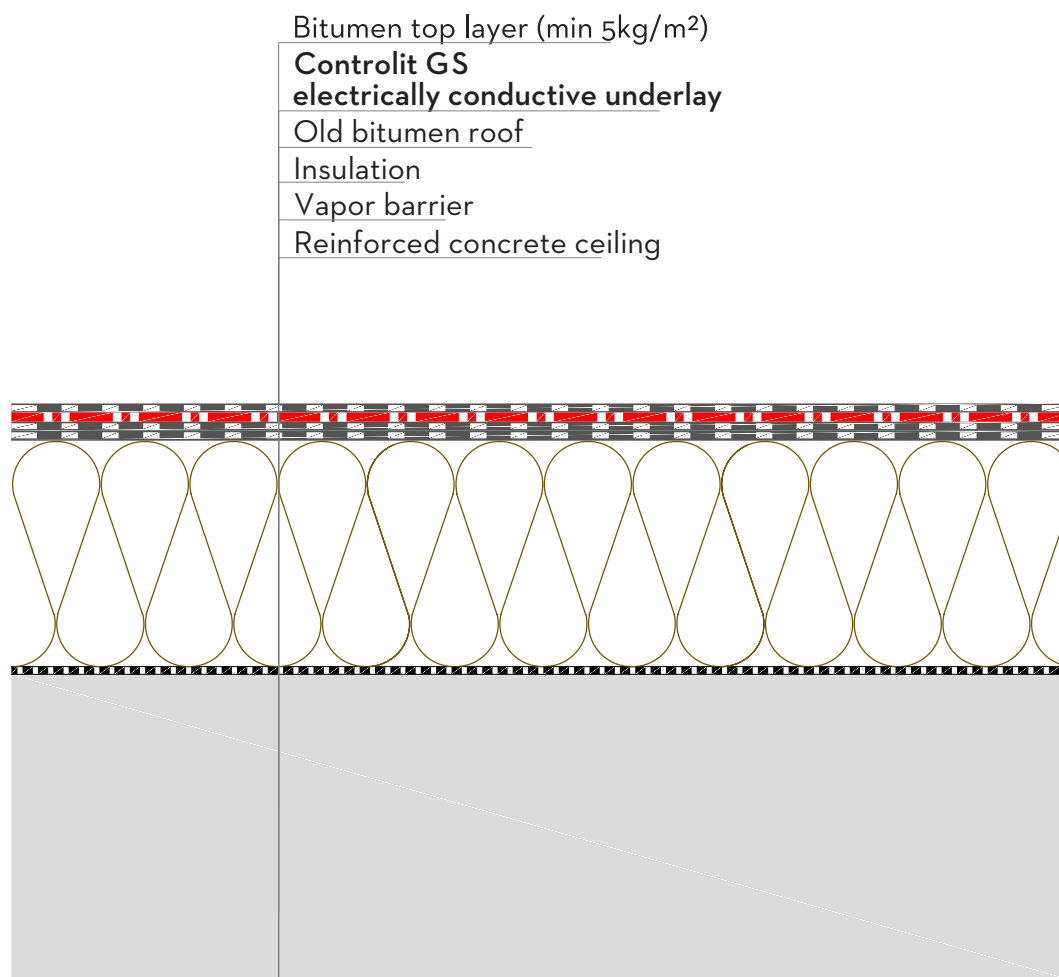
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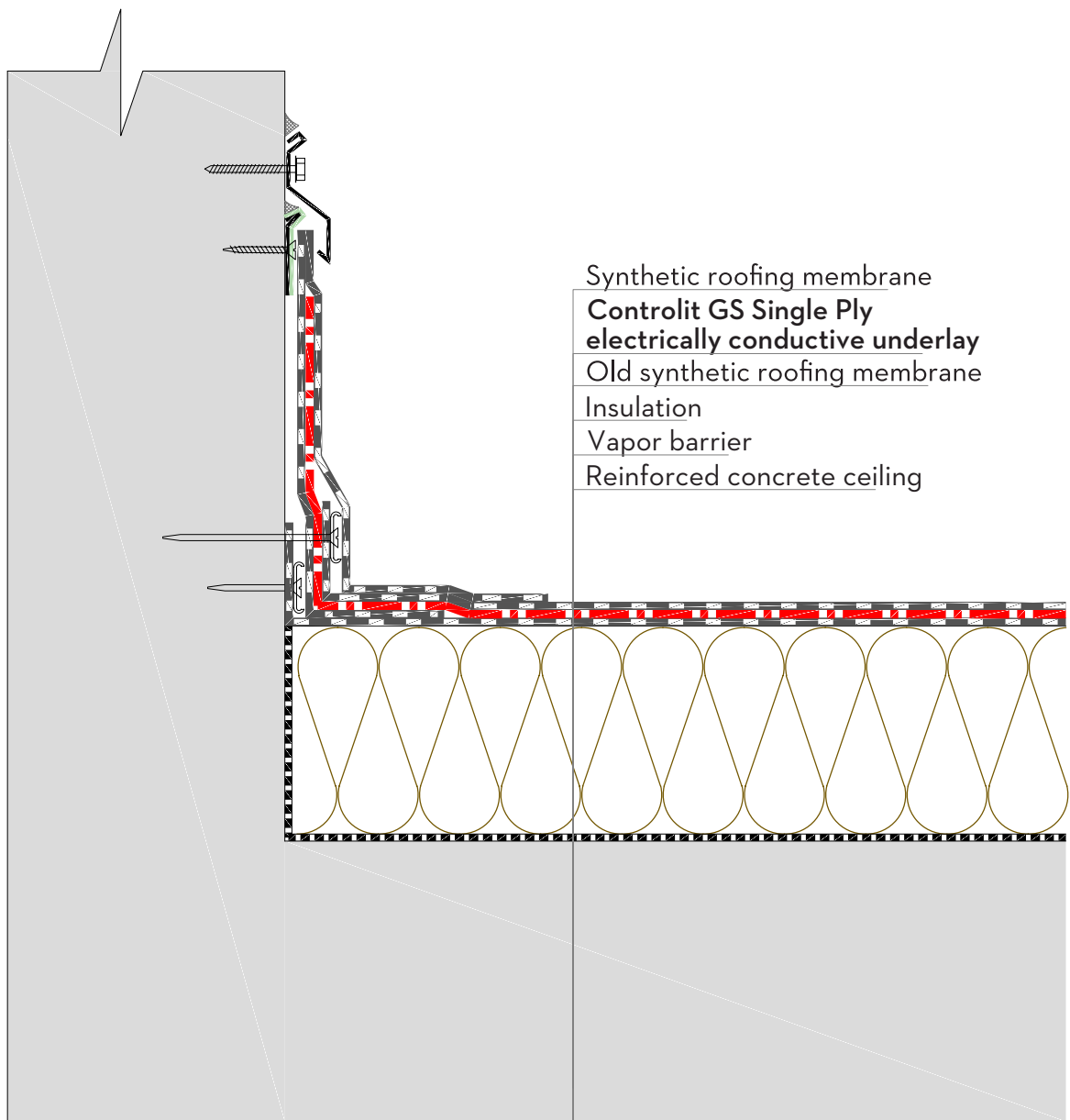
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- The base of Controlit connection contact must be connected with the electrically conductive Controlit underlay.
- All connection contacts must be in the zone of lightning protection
- To ensure the watertightness of contact, a special collar for synthetic waterproofing must be used.





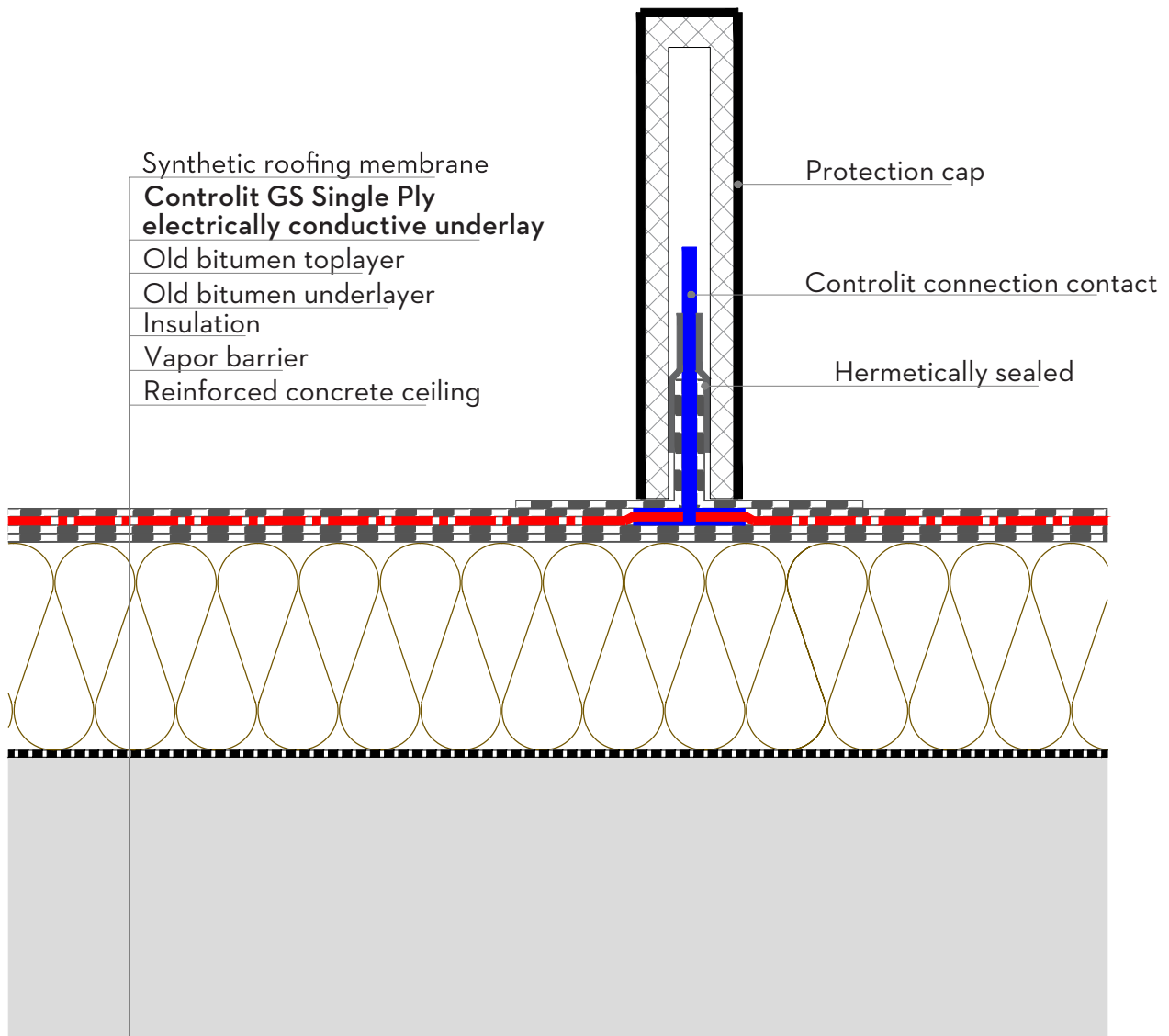
Notes:

- Controlit GS - electrically conductive underlay 165 gsm.
- Reaction-to-fire behavior A2-s1, d0.
- Electrical resistivity < 1000 Ohms/sq.
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- Controlit underlay provides waterproofing scanning quickly and non-destructively using the high voltage electronic leak detection (ELD) method. For non-conductive waterproofing membranes.
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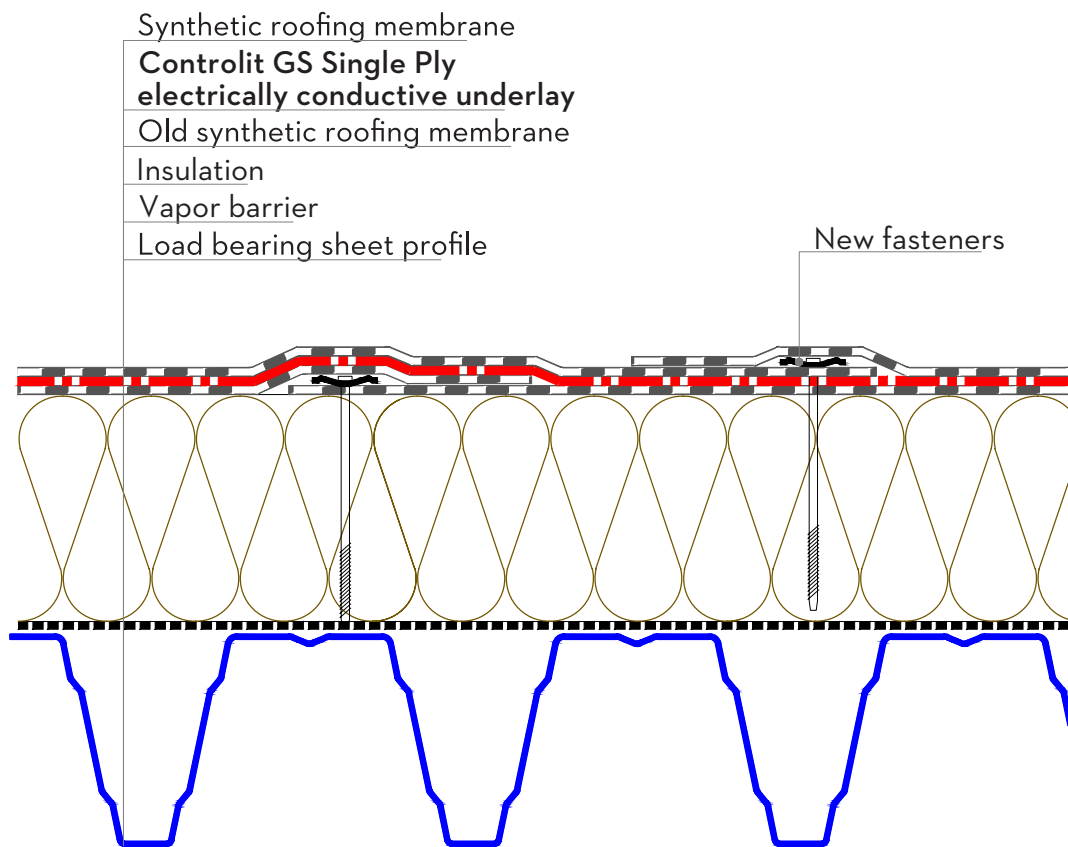
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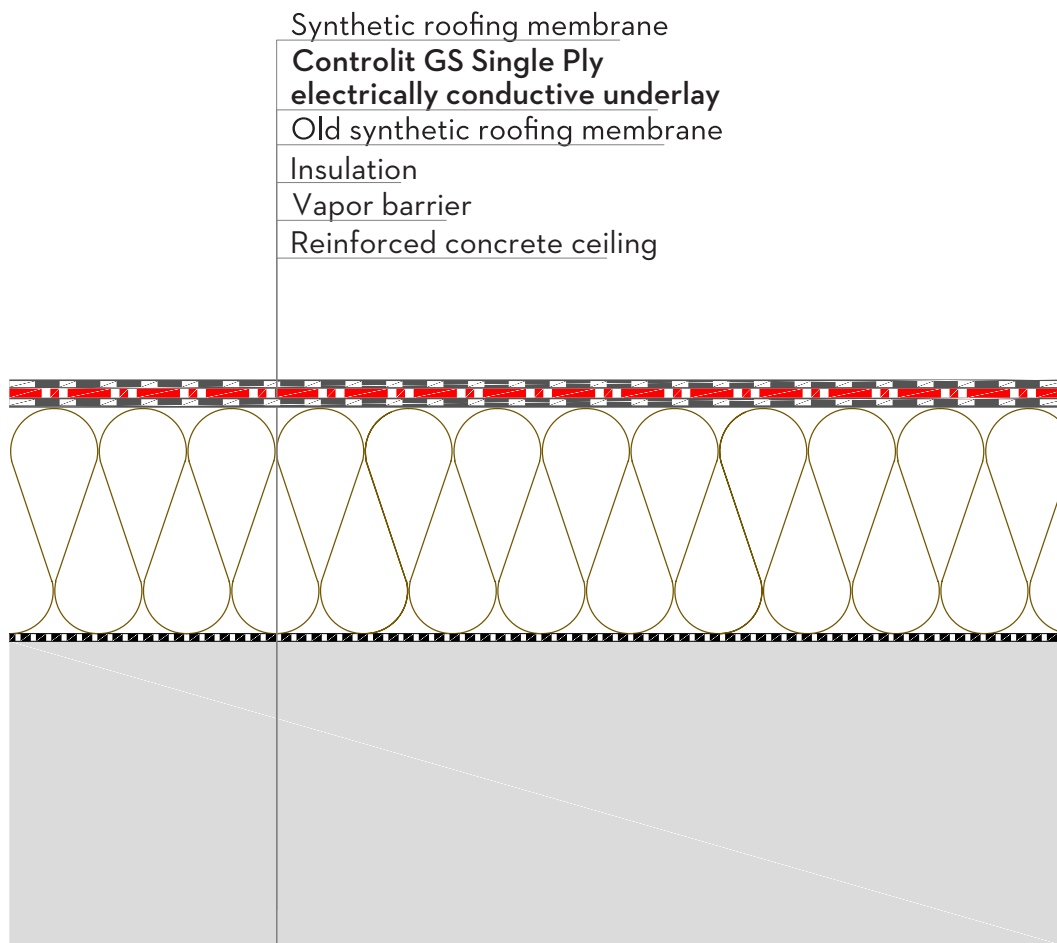
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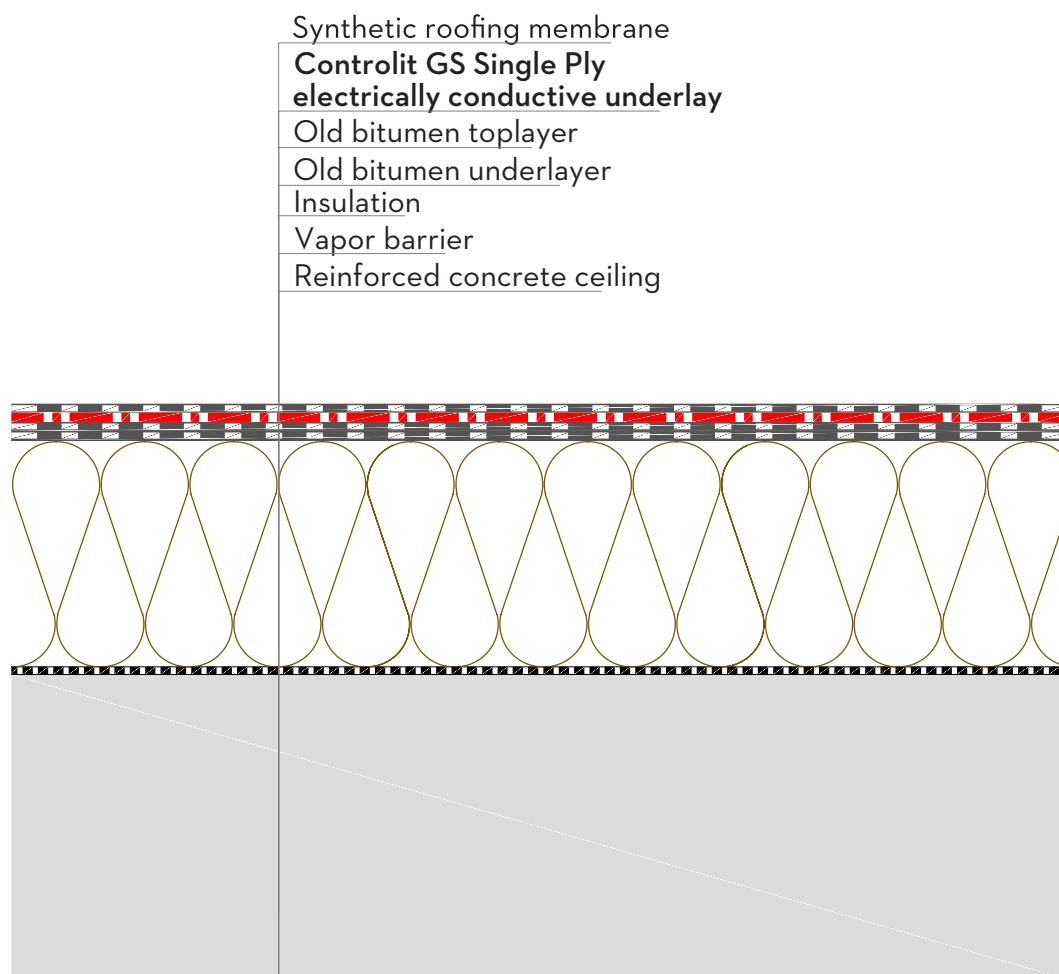
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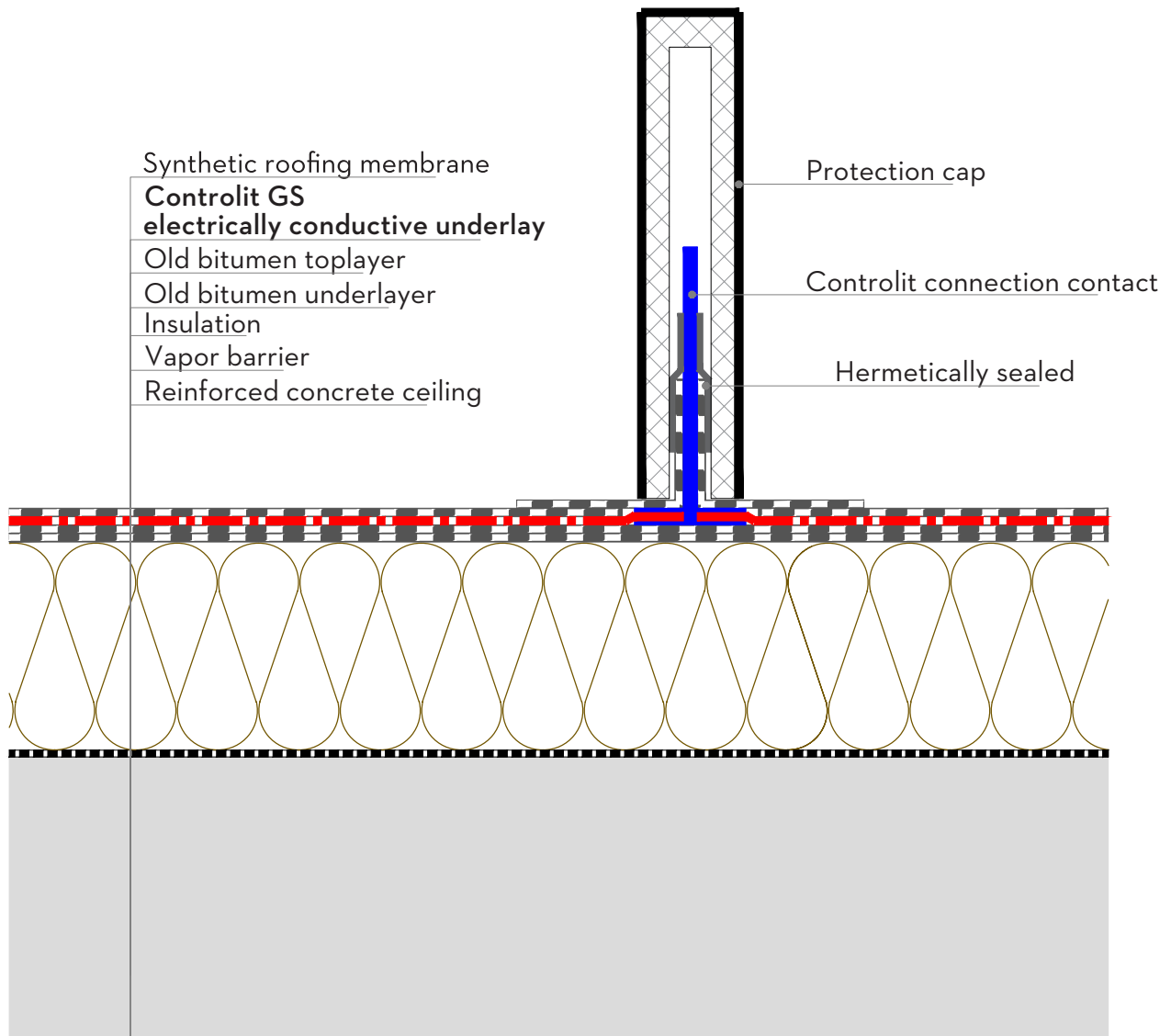
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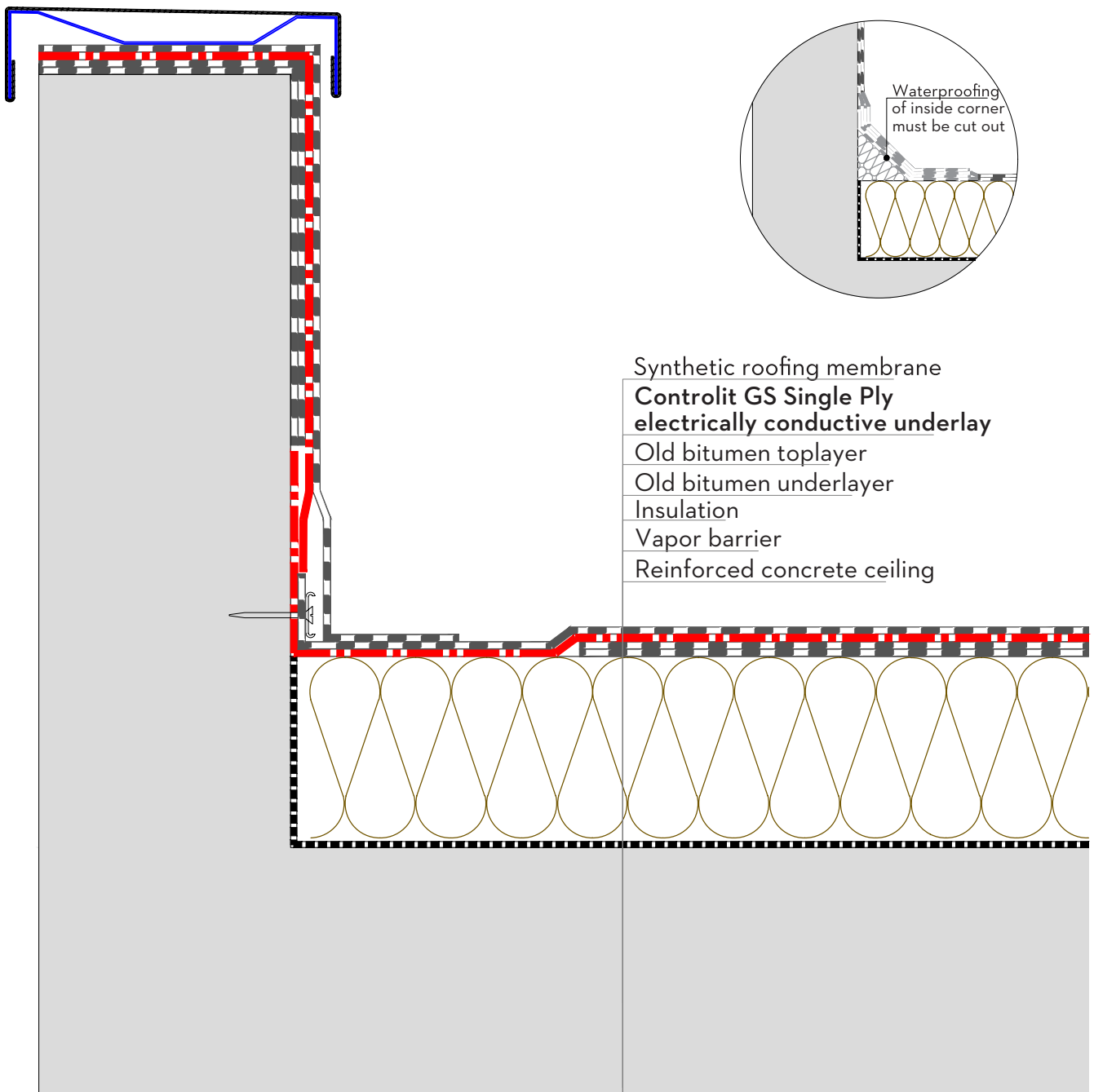
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When specifying ELD testing for roof or waterproofing projects, it is crucial to consider membrane and assembly compatibility, as well as waterproofing manufacturer acceptance. Consulting with a firm experienced in ELD technology during the design phase is essential for a successful project. In certain assembly designs, ELD testing cannot be an afterthought, especially when incorporating a conductive medium within the assembly. It is vital to understand that accurate test results can only be achieved when using the appropriate ELD technology and following proper procedures conducted by trained and experienced technicians.

ELD testing, when suitable, should not replace visual Quality Control (QC) and other best-practice inspection requirements. It should be used as an additional tool to complement other inspection techniques. Different components like metal flashings, drains, and other elements of the assembly require various inspection techniques, and a comprehensive approach is necessary to ensure a successful installation.

In summary, proper planning, using the correct ELD technology, and following established procedures with skilled technicians are key factors to ensure the effectiveness of ELD testing in roofing and waterproofing projects. It is a valuable tool, but it should be integrated into a comprehensive QC program along with other inspection methods to achieve the best results.



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