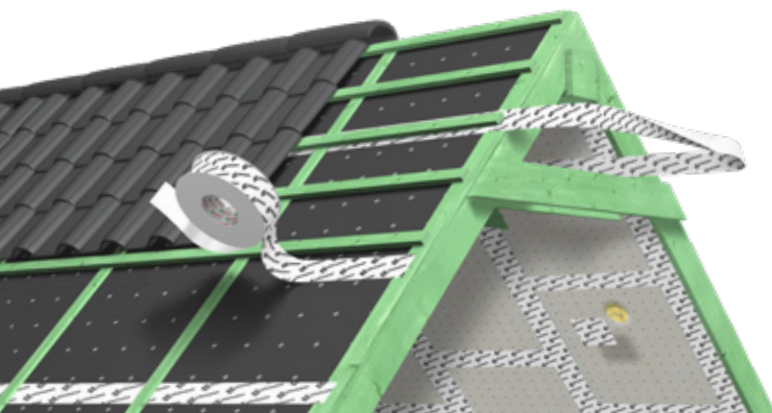


Application Case: 3-D Microscope

Aiming high: Bonding on the roof.

Bonds in the construction industry have to meet high standards. For example, RC (resistance classes) for fenestration or eco-labels guaranteeing low emissions for adhesive flooring products. Lohmann's Building & Construction experts have been reliable partners of all crafts for 70 years now.



It comes as no surprise that the Bonding Engineers have an eye for detail on their way to the suitable bonding solution. In this application case, they are working on a combination solution for roof areas: a vapor barrier tape that can be applied to the interior as well as the exterior of the roof or the house. For overlaps or penetration bonding, sealing injection holes or roof and facade sheetings.

An important station for the development of this all-rounder bonding solution: the digital 3-D microscope in the Bonding Arena®. By means of this device, various construction foils and membranes

available on the market can be scrutinized. At a magnification of 5-1000 times. In the two-dimensional array already, the bonding experts can find out which radii and distances occur within the surface structure. The 3-D view provides further information on the roughness and structure of the substrate in the μm -range. Thus, the optimal layer thickness of the adhesive mass needed can be defined for the respective materials.

To be worthy of its name, all of the potential surfaces on which Lohmann's "Universal-Tape" DuploCOLL® 21124/21125 is meant to adhere to, have been placed under the lense of the 3-D microscope. An eye for detail pays off!

Customer benefit: There is no need to switch between different tapes for interior and exterior applications, instead one single high-performance adhesive tape for both areas is at hand. This tape has to guarantee airtightness and windproofness as well as UV-stability at the outdoor area. Furthermore, the adhesive formula has to be low in emissions and thus solvent-free because it is also used for the interior of the roof.

Do you want us to take a very close look at your bonding challenge? Please contact us via ae@lohmann-tapes.com

Product recommendations:

- DuploCOLL®21124 black
- DuploCOLL®21125 white