



# Technical Data Sheet

## HECK AERO Insulation Board

**HECK AERO Insulation Board:**

- Bulk density  $\leq 230 \text{ kg/m}^3$
- Thermal conductivity  $\lambda_D=0.017 \text{ W/m}^2\text{K}$
- Thermal conductivity, rated value:  $\lambda=0.018 \text{ W/m}^2\text{K}$
- Transverse tensile strength, depending on area of application  $\sigma_z \sim 7 \text{ kPa}$
- Resistance to water-vapor permeability  $\mu=5$
- Euro class A2-s1, d 0 in accordance with DIN EN 13501-1
- Mineral-fiber insulation material with aerogel
- Toxicologically safe
- Flexible

**Coverage:**

- Butt-edge insulation board:  $1 \text{ m}^2/\text{m}^2$
- Shiplap-edge insulation board:  $\sim 1,04 \text{ m}^2/\text{m}^2$

**Areas of Application:**

- Insulation material in the HECK AERO exterior insulation finishing system on masonry and concrete with and without render finish in a thickness of 10 to 100 mm.
- In certain areas combination with other HECK exterior insulation finishing systems Particularly suitable for the following areas of application:
  - general facade insulation
  - insulation in entrance areas
  - insulation of parts of buildings along property lines
  - insulation that closely follows the masonry surface
  - insulation of facade areas next to balconies or terraces
  - insulation in external corridors / escape ways
  - insulation of buildings with period facades

**Substrate:**

Clean; dry; free from grease and dust; even; structurally sound in relation to the fixing method of the exterior insulation finishing system, adhesive bonding and mechanical fixing

**Application:**

- For the adhesive bonding of the insulation boards, use a suitable bonding mortar as specified in the system approval
  - Mineral substrates: HECK AERO K+A
  - Adhesive bonding after first applying a thin layer of HECK AERO K+A using a lot of pressure:
    - Application of adhesive to entire surface: preferred method
    - Ribbon-and-dab method: 40% partial area
  - Install insulation boards firmly edge-to-edge without leaving any open joints. Cross joints are not allowed – make sure butt joints do not run through from one row of insulation boards to the one above or below. At openings in the masonry L joints are permitted, or notch insulation boards.
  - Additionally, fasten insulation boards to substrate mechanically using HECK hammer-set or screwing anchors. Screwing anchors can be used from an insulation-material thickness of 60 mm upward.
  - Mechanical fixing: As per the table provided by Fachverband WDVS (German EIFS association) and following structural calculation in accordance with DIN 1055-4.
  - After hardening of the bonding mortar and mechanical fastening, reinforce the insulation boards using the system-compatible HECK AERO K+A basecoat and the HECK AGG fine reinforcement mesh. We recommend application of the reinforcement layer in two work steps. Start with a contact/leveling layer of 1-2mm thickness; Then, allow to set briefly, and complete the reinforcement layer with embedded mesh, resulting in an overall layer thickness of at least 5 mm. Relevant AERO Ready accessories, such as corner beads and corner-reinforcing parts, must be incorporated in this basecoat layer. Minimum thickness of the reinforcement layer is 5 mm.
- Please note:  
Environmental and substrate temperatures of at least +5°C are required for the application of the insulation boards. Also, protect insulation boards from driving rain and extreme weather conditions.

**Specifications:**

Color:	natural white
Dimensions:	730 x 730mm butt-edge insulation board 745 x 745mm shiplap-edge insulation board
Material thickness:	in 10mm steps from 10 to 100 mm; custom thicknesses on request
Edge shape:	butt edge, shiplap edge (default with 30mm boards and up)

**Storage:**

Dry and protected from moisture (also applies to boards after installation).



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**HECK Wall Systems GmbH**  
Thöläuer Straße 25  
95615 Marktredwitz / Germany  
T: +49 9231 802-330  
F: +49 9231 802-330  
[www.wall-systems.com](http://www.wall-systems.com)