

ThermaKlip

Installation Guide

Our team of talented designers, strategists, writers, developers work seamlessly together, pushing boundaries challenging conventions to create memorable experiences.



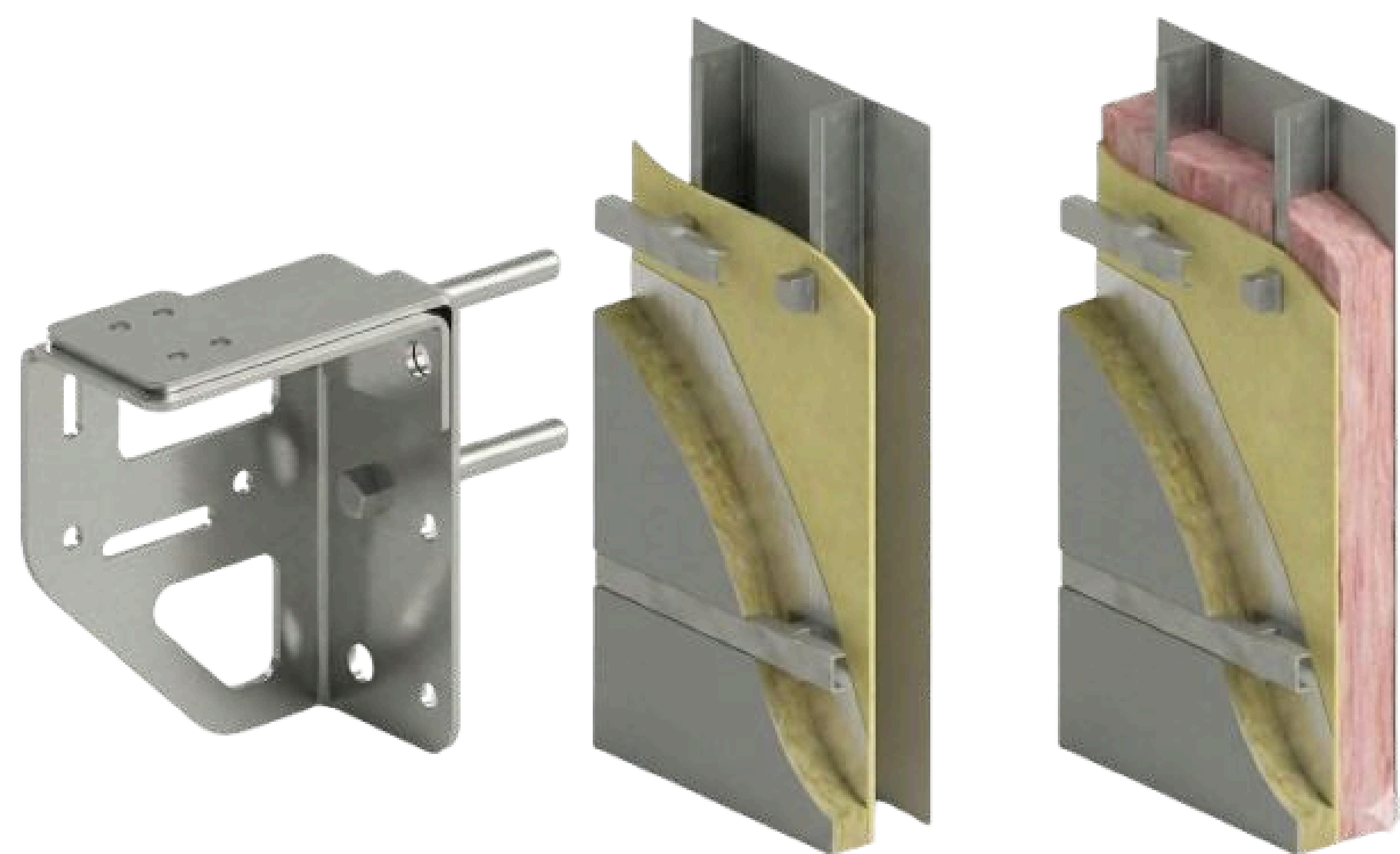
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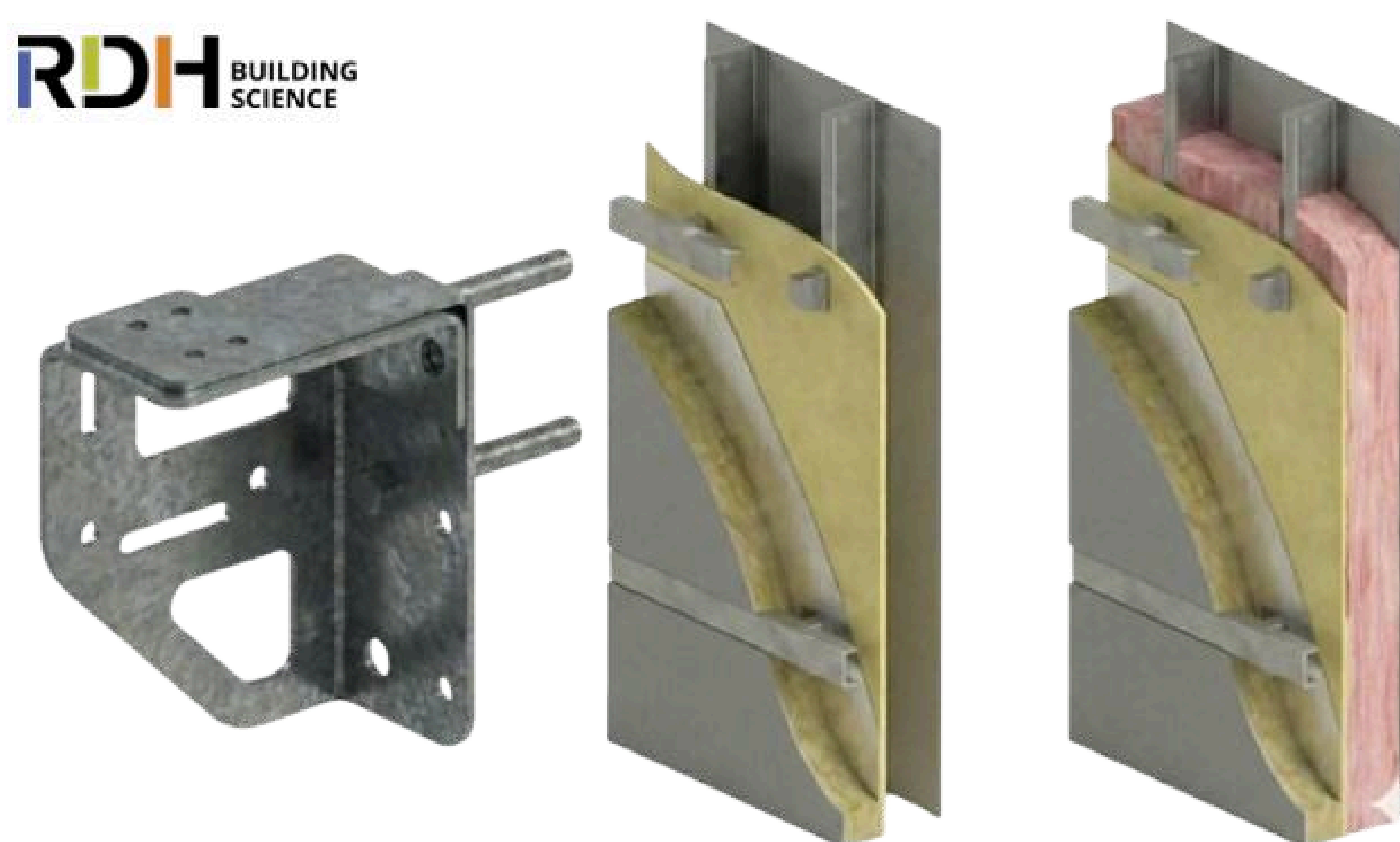
1. Introduction

ThermaKlip provides an advanced attachment system engineered to minimize thermal bridging in wall assemblies. Crafted from durable 14-gauge stainless steel, ThermaKlip enhances energy efficiency and structural integrity while reducing material and labor costs.

The system features an adjustable L-girt, which is attached after the clip installation, ensuring flexibility for various wall conditions. Designed to support a wide range of insulation thicknesses from 2" to 8", it seamlessly adapts to different substrates, including concrete, steel studs, and wood.



Stainless Steel Clip – 6" Steel Stud Wall With and Without R-19 Batt



Galvanized Steel Clip and Thermal Pad – 6" Steel Stud Wall With and Without R-19 Batt

2. Product Overview

ThermaKlip is a one-part stainless steel clip system designed for efficient installation and thermal performance. The system includes an adjustable L-girt, which is installed after the clips to accommodate various insulation thicknesses and alignment requirements.

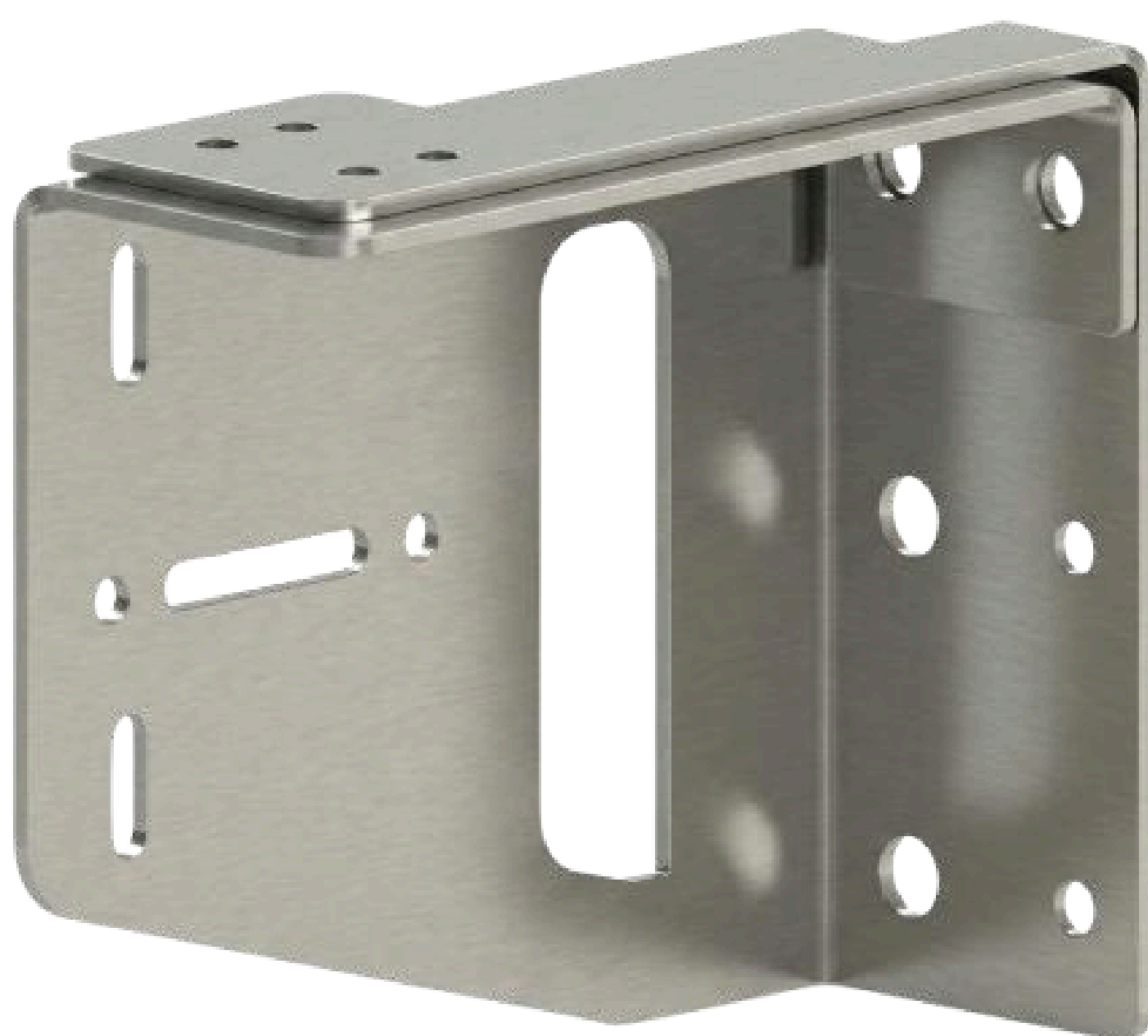
Stainless Steel Clip



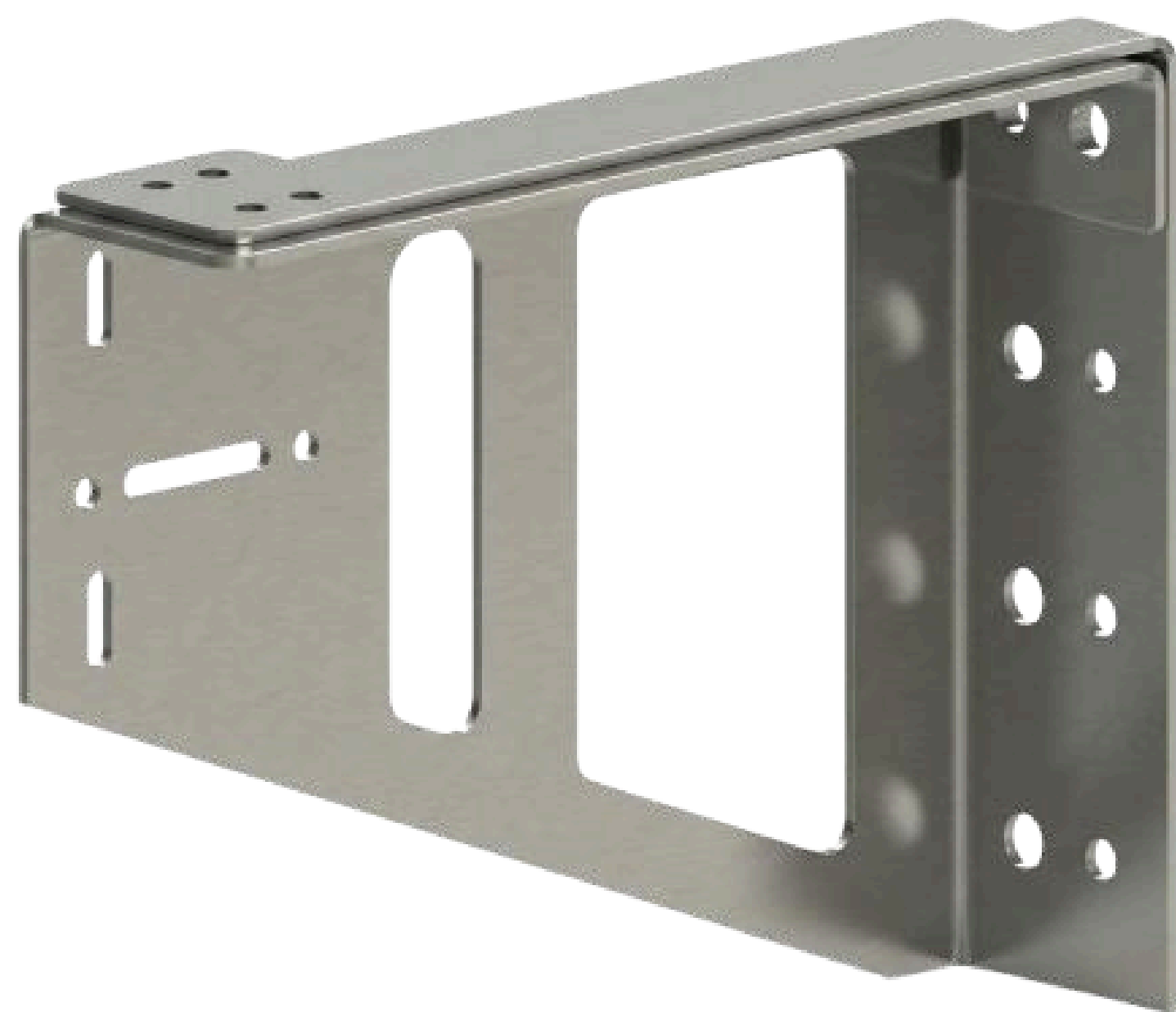
2"



3.25"



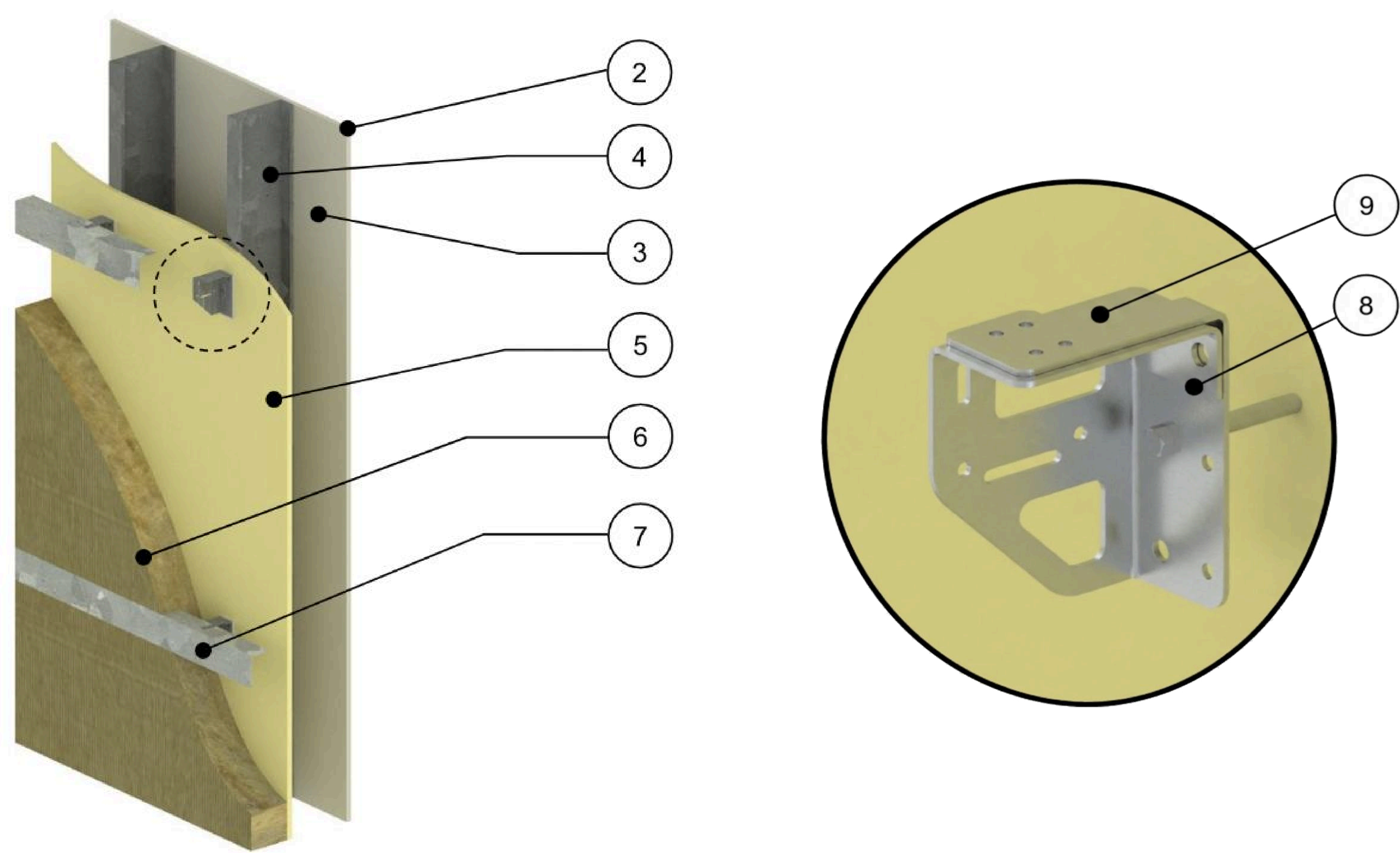
4.75"



7.75"

3. Key Features & Benefits

- **Enhanced Energy Efficiency:** By minimizing thermal bridging, ThermaKlip improves insulation performance, leading to better energy efficiency and occupant comfort.
- **Cost Savings:** The ability to use fewer brackets while maintaining structural integrity reduces material and labor costs.
- **Versatility:** Compatible with multiple insulation thicknesses and substrates, including concrete, steel studs, and wood.
- **Ease of Installation:** Designed to accommodate both vertical and horizontal sub-girts without the need for shims, streamlining installation and reducing time on site.
- **Superior Durability:** Constructed from high-performance 14-gauge stainless steel for exceptional strength and longevity.



ID	Component	Thickness Inches (mm)	Conductivity Btu-in / ft ² -hr-°F (W/m K)	Nominal Resistance hr-ft ² -°F/Btu (m ² K/W)	Density lb/ft ³ (kg/m ³)	Specific Heat Btu/lb-°F (J/kg K)
1	Interior Film ¹	-	-	R-0.7 (0.12 RSI)	-	-
2	Gypsum Board	1/2" (12.7)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
3	Air in Stud Cavity	6" (152)	-	R-0.91 (0.16 RSI)	0.075 (1.2)	0.24 (1000)
4	6" x 1 5/8" Steel Studs	18 Gauge	360 (52)	-	489 (7830)	0.12 (500)
5	Exterior Sheathing	1/2" (12.7)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
6	Exterior Mineral Wool Insulation	4" (102)	0.23 (0.034)	R-17.2 (3.03 RSI)	4 (64)	0.20 (850)
7	Steel L-Shaped Girt	18 Gauge	360 (52)	-	489 (7830)	0.12 (500)
8	#14 Stainless-Steel Fasteners	1/4" (6.5) Ø	118 (17)	-	500 (8000)	0.12 (500)
9	ThermaKlip – Stainless Steel		118 (17)	-	500 (8000)	0.12 (500)

4. Installation Guide

4.1 Preparation Checklist

1. **Confirm Wall Alignment:** Ensure wall studs are aligned and in-plane.
2. **Review Engineering Notes:** Verify clip spacing and fastener specifications.
3. **Inspect the Substrate:** Surfaces must be clean, dry, and free from defects.
4. **Examine Components:** Check for any shipping damage before installation.
5. **Ensure Flashing Is Installed:** Flashings must be in place before beginning work.
6. **Maintain Membrane Integrity:** Protect the sheathing membrane throughout the process.

4.2 Required Accessories

1. **Fasteners:** 410 stainless steel self-drilling screws with SKT 1000 coating.
2. **Insulation Stick Pins (if required):** For stone wool applications.
3. **Metal Z-Girt or Angle:** Galvanized to G90, Z275 or Galvalume AZM 150.
4. **Vent Screen:** Ensures airflow while blocking insects and debris.

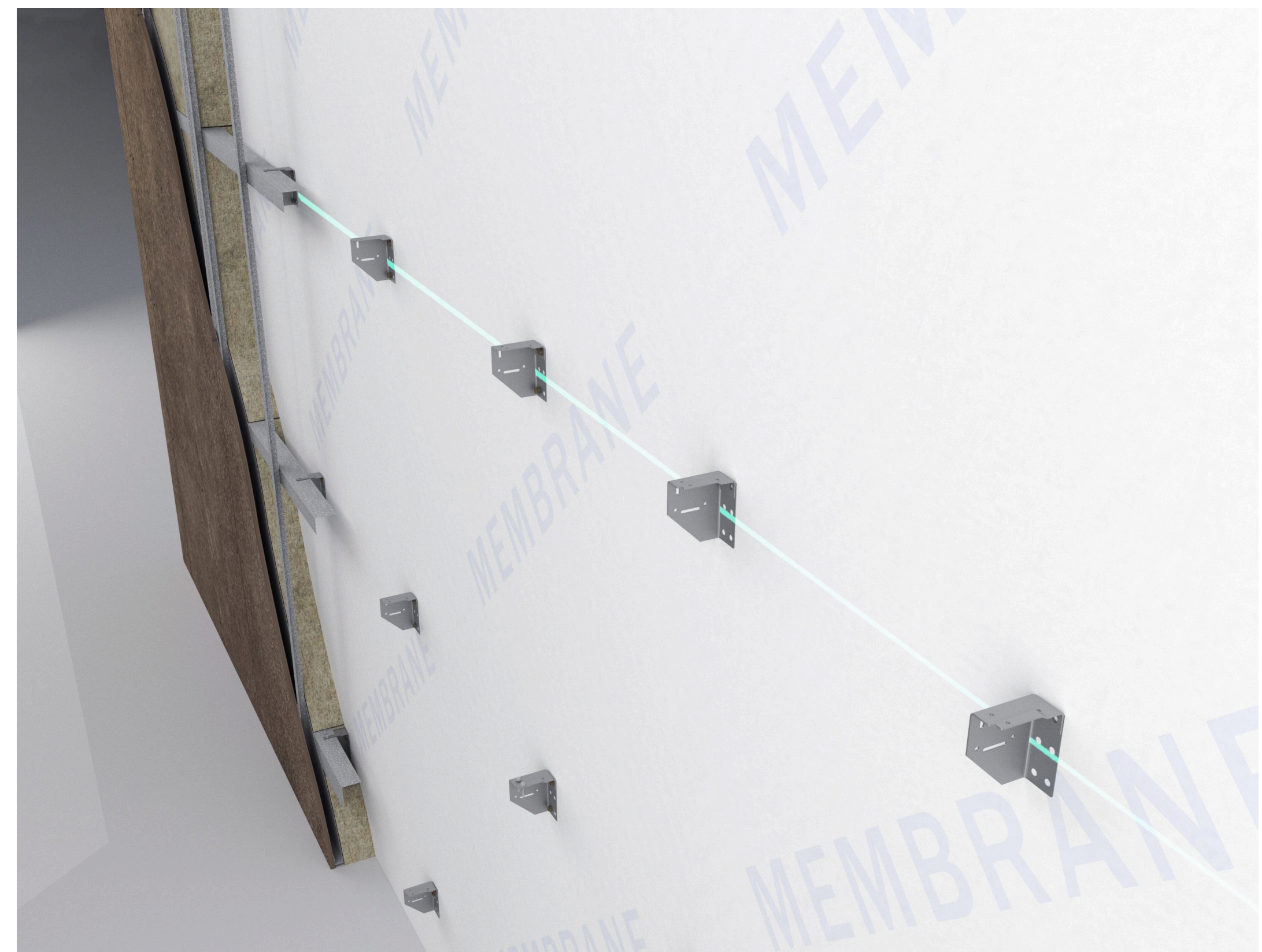


4. Installation Guide

4.3 Insulation Compatibility

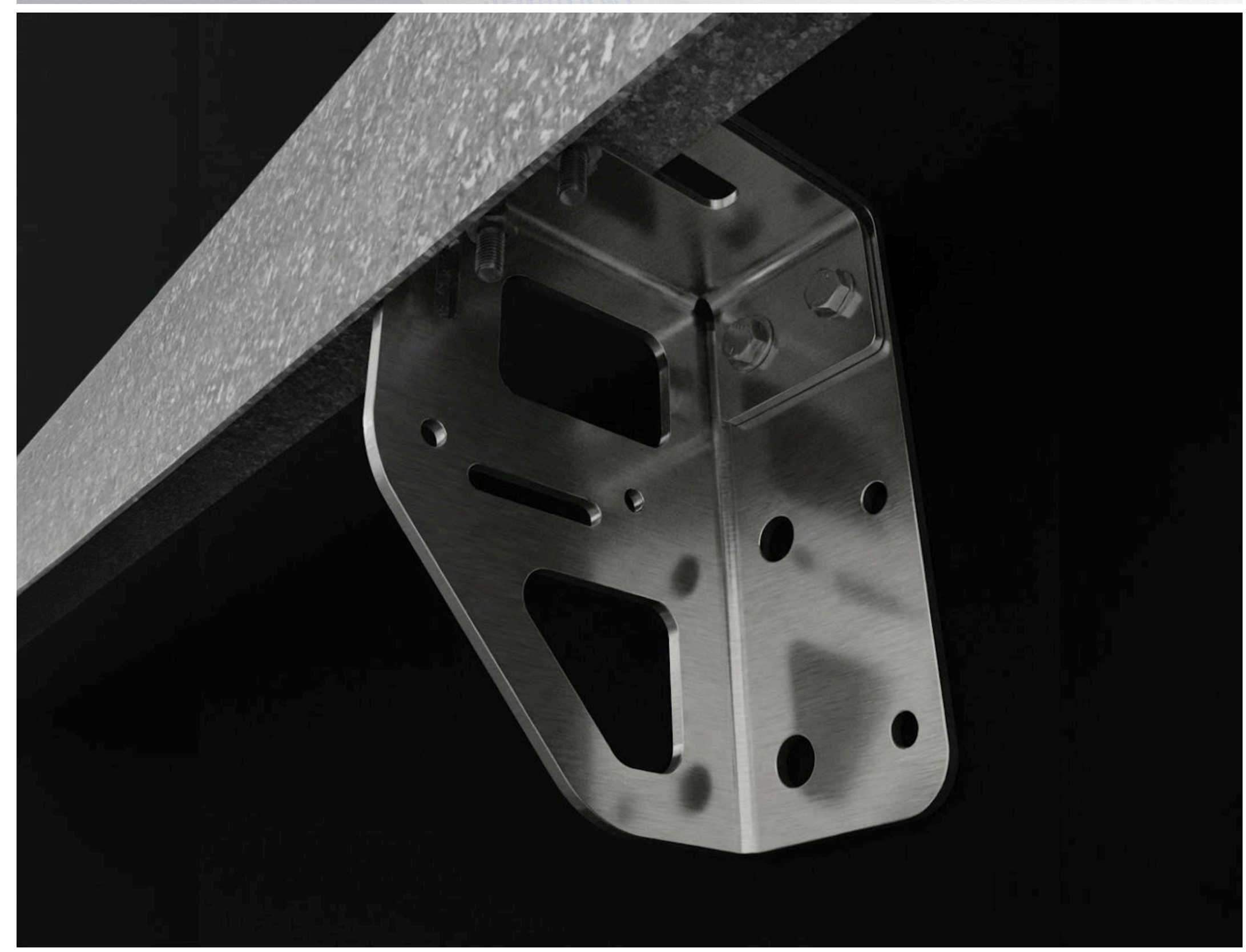
1. Rigid Insulation

- Locate studs and mark their positions.
- Use a laser level and chalk line to mark clip rows.
- Install the first horizontal row of clips with specified fasteners.
- Cut insulation to fit around clips and install.
- Repeat the process for the entire wall.
- Secure the adjustable L-girt.



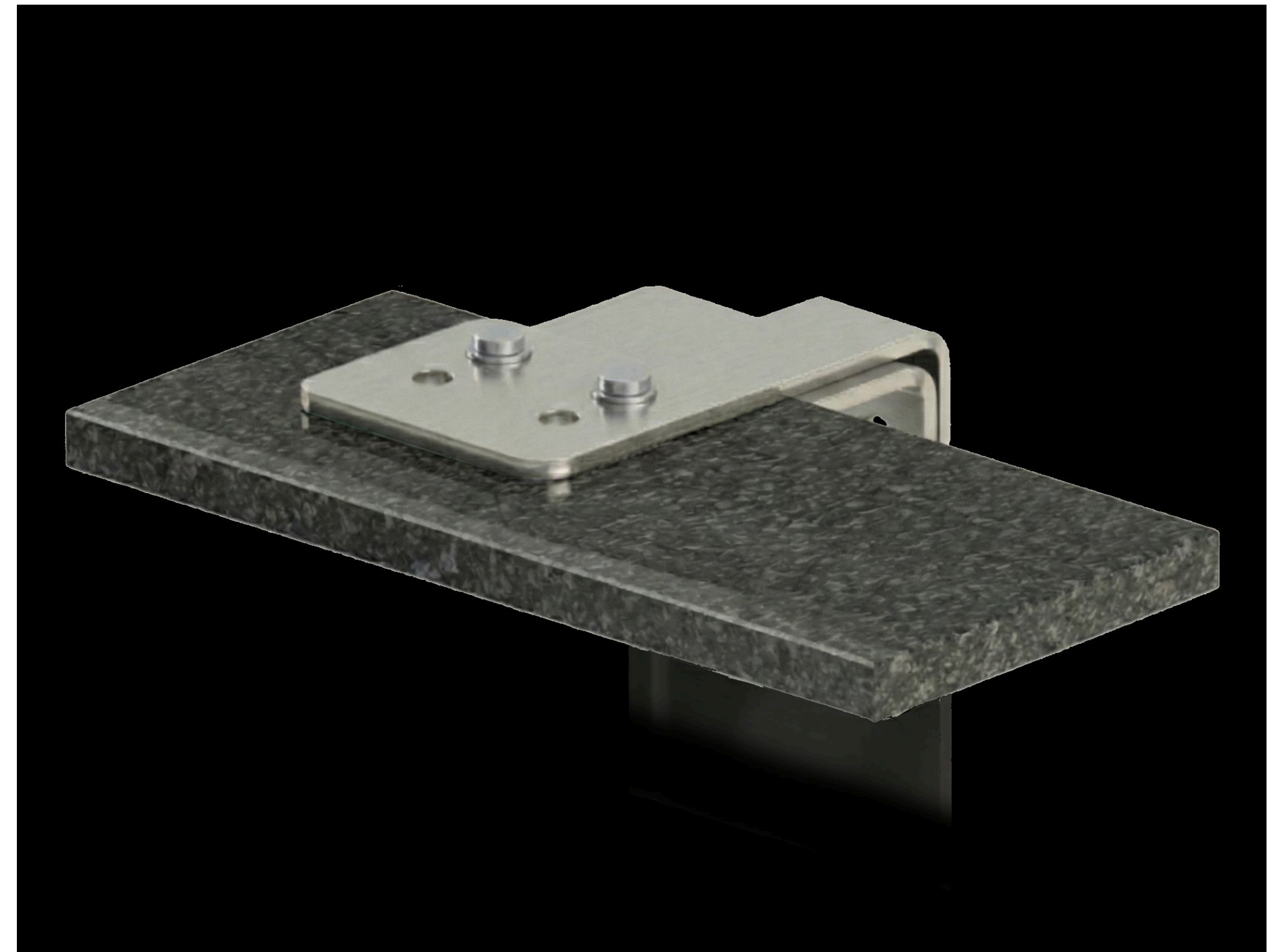
2. Stone Wool Insulation

- Locate and mark stud positions.
- Use a laser level and chalk line to mark the first row.
- Mark vertical spacing for clip rows.
- Install ThermaKlip.
- Fit stone wool insulation around clips.
- Secure the adjustable L-girt using provided fasteners.



3. Spray-Foam Insulation

- Mark stud locations using a magnet or reference points.
- Mark clip rows with a laser level and chalk line.
- Install ThermaKlip.
- Allow spray-foam installation to be completed.
- Attach the adjustable L-girt.



4. Protected Assembly

- Locate and mark stud positions.
- Mark clip rows using a laser level and chalk line.
- Install ThermaKlip.
- Cut and fit SOPRA-ISO V insulation around clips.
- Install stone wool insulation.
- Secure the adjustable L-girt.



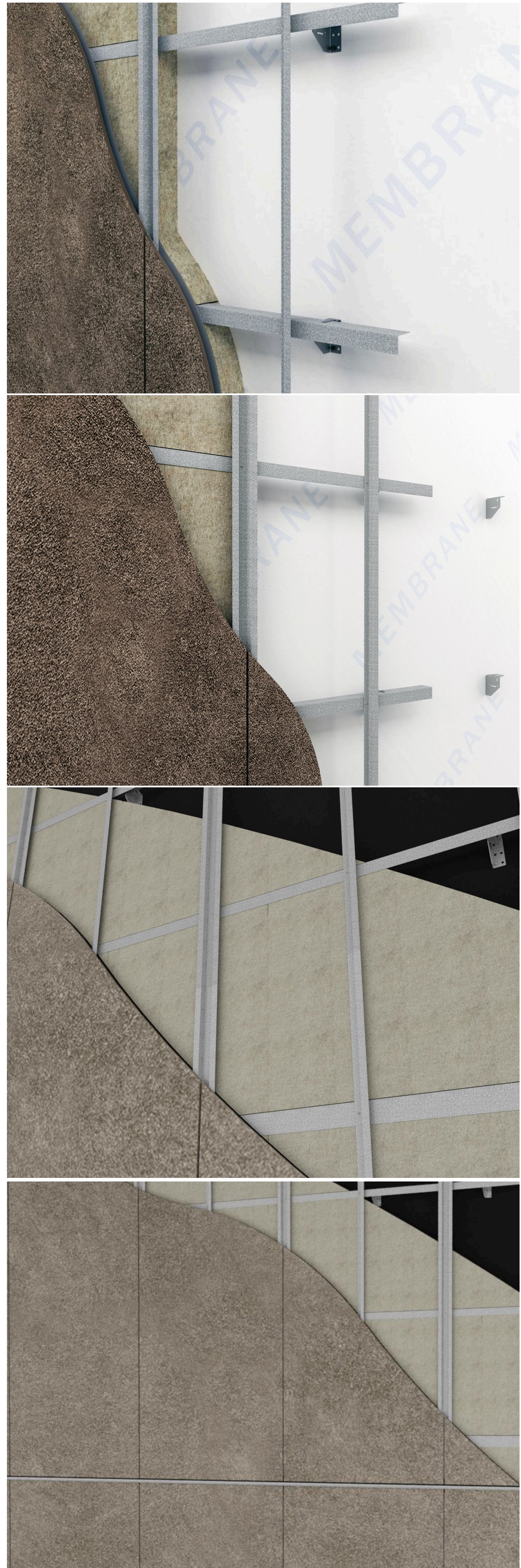
4. Installation Guide

4.4 Clip Installation Process

1. Mark stud locations on the air/vapor barrier using a marker or chalk line.
2. Use a laser level to mark the horizontal alignment for the clip locations.
3. Align the six vertical holes of the ThermaKlip with the marked stud location.
4. Secure the clip into the substrate using the specified fasteners.
5. Repeat this process while maintaining appropriate clip spacing based on engineering requirements.
6. For installations on concrete substrates, pre-drill holes and use appropriate concrete fasteners.

4.5 Adjustable L-Girt Installation

1. Once the ThermaKlip clips are installed, align the L-girt through the designated attachment points.
2. Use a laser level to ensure uniform alignment across the wall.
3. Secure the L-girt using the provided fasteners at every clip location.
4. Maintain a 1/8" spacing between adjacent girts unless otherwise specified by shop drawings.
5. If additional adjustments are required, use a clamp to hold the girt in place before securing.
6. Ensure that girt ends do not cantilever more than 8" from the last clip.



5. Technical Support & Resources

For additional details, contact your ThermaKlip representative or refer to our official installation videos.

