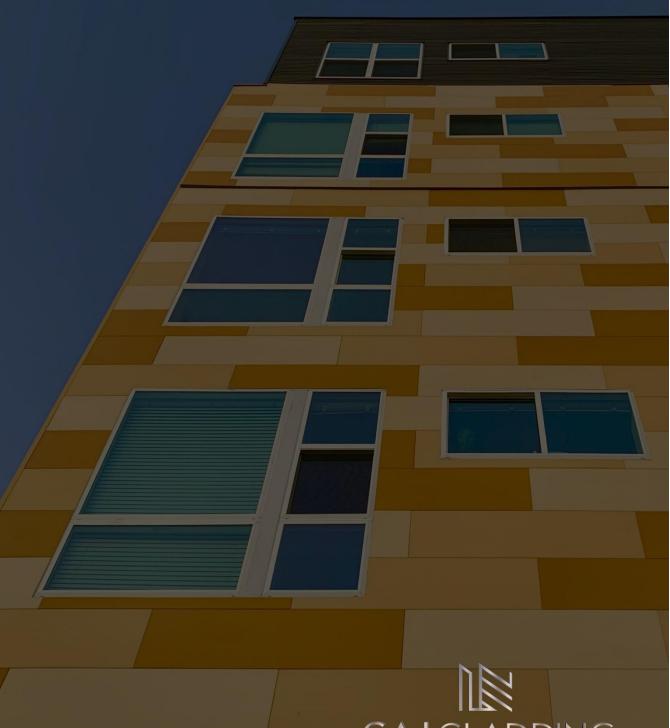
GAJCladding H-Shield

GH1 System Architecture Detail - v2.0



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Application

This GAJCladding H-Shield Panel System's Architectural Details provides a guidance on the most common details and design considerations to ensure that the construction details are suitable for the intended application of their project, consistent with industry practices in light of commercial and multifamily residential buildings.

This guide should be read along with the installation manual.

Principles for Designing

Supporting Studs and Shear Walls

Certification for the structural stability of any supporting studs should be in accordance with local building regulations and must be obtained by the building owner or official representatives, such as the project engineer. Supporting studs are used, the shear walls should be checked by the installer prior to installation to confirm that it is flat and true, and that correct fixings and details are employed. Any discrepancy should be referred to the design team.

GH1 Support System

GAJCladding GH1 Support System consists of clips, vertical rail, brackets. It combines an elegant arrangement particularly for H-Shield panels. The specialized Clip matches the H-Shield panels, anchor the panels onto vertical rail makes this system much simpler, more reliable and stable in its performance, and, the most important, easier for customer to cut on-site and install.

- 1. Exterior Wall
- 2. Vapor Barrier & Waterproof
- 3. Brackets
- 4. Exterior Thermal Insulation
- 5. Vertical Rail
- 6. H-Shield Clip
- 7. H-Shield Panel



Anchors Requirements

Failure to use the clips that are GAJCladding products required may invalidate product warranty.

Weather/Water Resistant Barriers

A material used on the exterior of a building. It can resist bulk liquids that has leaked, penetrated or penetrated into the outer coating to the outer sheath or concrete wall (depending on the application) and further into the wall assembly.

Finishes

There are some different colors and textures, such as Ceramicshell, Metalshell, Matteshell, Pearlshell. etc. Each series finish color corresponds to a different level of finish textures. For more specific information, you can refer to the color catalog.

Profile Specification

It is advisable to use a vertical profile that allows for tolerance and any discrepancy in component layout and installation dimensions.

Minimum profile thickness	Aluminum	≥ 2mm
Minimum profile thickness	Galvanised/stainless steel	≥ 1.2mm
Minimal depth of profile		≥ 35mm
Minimal width of intermediate profile		≥ 40mm
Maximum buckle under influence of sti	rain	≤Span/250
Safety factor calculation of strength		3
Maximum length of vertical profile		6m
Movement joints between adjacent pro	ofiles	20mm
Maximum unsupported length from las	t bracket/anchor	250mm

Construction Details

This chapter provides an overview of the various common details to cover a wide range of situations that are expected on a regular basis.

These drawings do not contain the complete details required for the configuration and must be read along with the installation manual at www.gajcladding.com. You should obtain architectural, engineering or other technical advice to assess whether these drawings are suitable for your particular project. Chongqing Guanjie Qizhong Building Materials Co., Ltd. is not responsible for the use of these drawings.

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Figure 1: Elevation and Floor Plan

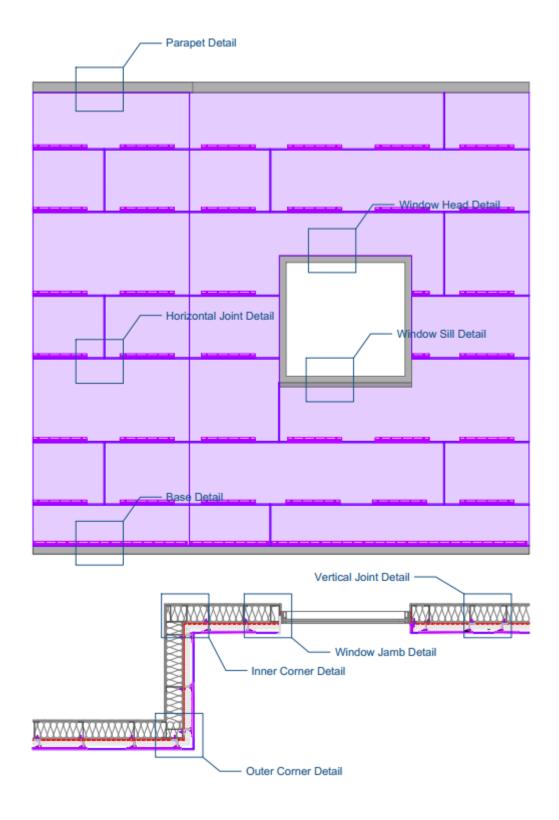
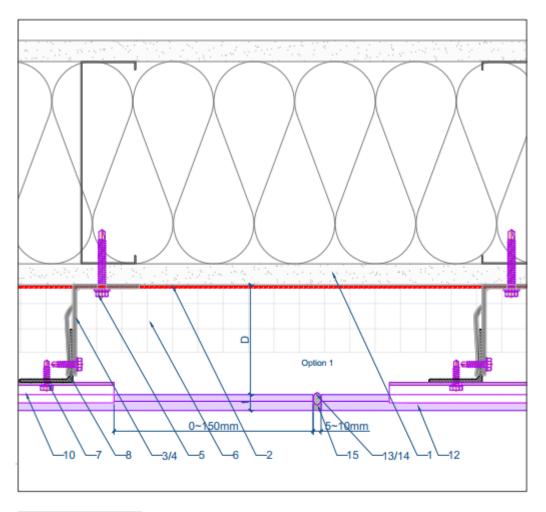


Figure 2: Vertical Joint Detail





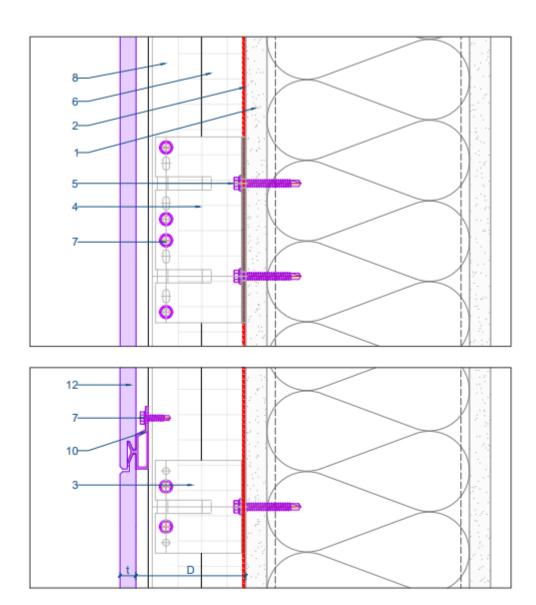
- Exterior Wall
- Vapor Barrier
- Single Bracket
- Double Bracket
 Substrate Fastener

- Insulation
 Self-drilling Screw M4.8*19
- 8. L-profile Rail

- 9. Aluminum Angle
- 10. H-Shield Clip
- Starter Track
 H-Shield Panel
 Joint Strip
 Foam Strip

- 15. Joint Sealant
- 16. Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
 20. Self-drilling Screw M4.8
 D System depth
 t Panel thickness

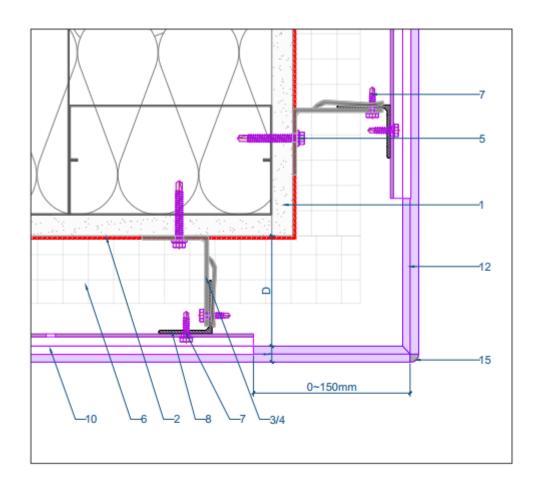
Figure 3: Horizontal Joint Detail



- Exterior Wall
- 2. Vapor Barrier
- 3. Single Bracket
- Double Bracket
- Substrate Fastener
- Insulation
 Self-drilling Screw M4.8*19
 L-profile Rail

- 9. Aluminum Angle
- 10. H-Shield Clip
- 11. Starter Track
- 12. H-Shield Panel
- 13. Joint Strip
- 14. Foam Strip
- 15. Joint Sealant 16. Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
- 20. Self-drilling Screw M4.8
- D System depth
- t Panel thickness

Figure 4: Outer Corner Detail



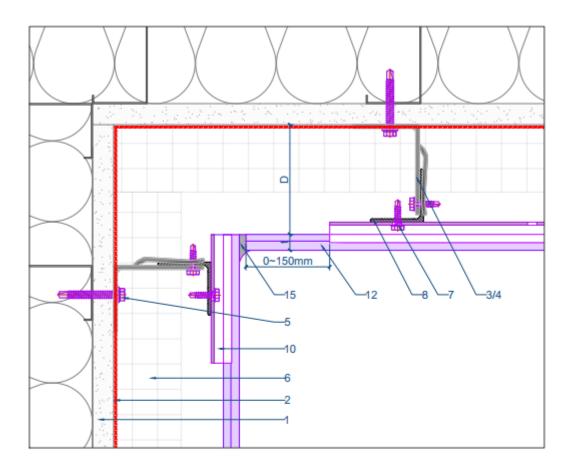
- Exterior Wall
- Vapor Barrier
- Single Bracket

- Double Bracket
 Substrate Fastener
 Insulation
 Self-drilling Screw M4.8*19
 L-profile Rail

- 9. Aluminum Angle 10. H-Shield Clip
- Starter Track
 H-Shield Panel
 Joint Strip
 Foam Strip

- 15. Joint Sealant
- 16. Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
 20. Self-drilling Screw M4.8
 D System depth
 t Panel thickness

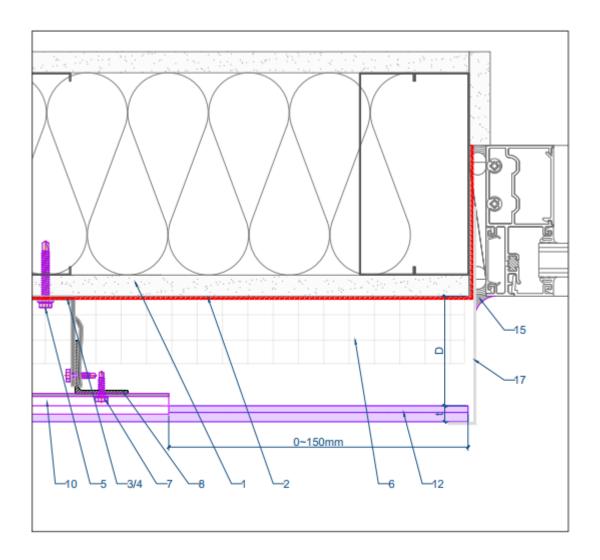
Figure 5: Inner Corner Detail



- Exterior Wall
- Vapor Barrier
- 3. Single Bracket
- Double Bracket
- Substrate Fastener
- Insulation
 Self-drilling Screw M4.8*19
 L-profile Rail

- 9. Aluminum Angle
- 10. H-Shield Clip
- 11. Starter Track
- 12. H-Shield Panel 13. Joint Strip
- 14. Foam Strip
- Joint Sealant
 Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
- 20. Self-drilling Screw M4.8
- D System depth t Panel thickness

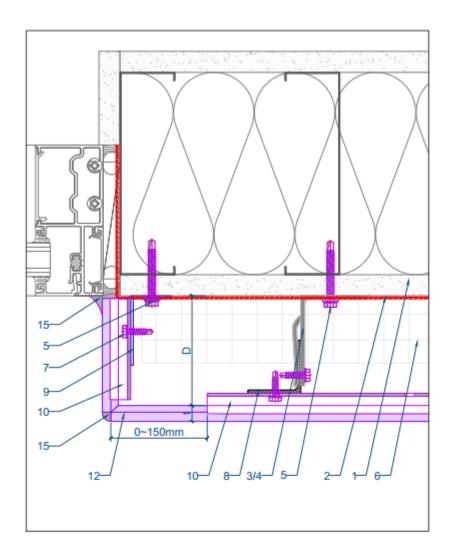
Figure 6: Window Jamb Detail (Option 1)



- Exterior Wall
- Vapor Barrier
 Cinata Barrier
- Single Bracket
- Double Bracket
 Substrate Fastener
- Insulation
- 7. Self-drilling Screw M4.8*19
- 8. L-profile Rail

- 9. Aluminum Angle
- H-Shield Clip
- 11. Starter Track
- 12. H-Shield Panel
- 13. Joint Strip
- 14. Foam Strip
- Joint Sealant
- Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
- 20. Self-drilling Screw M4.8
- D System depth
- t Panel thickness

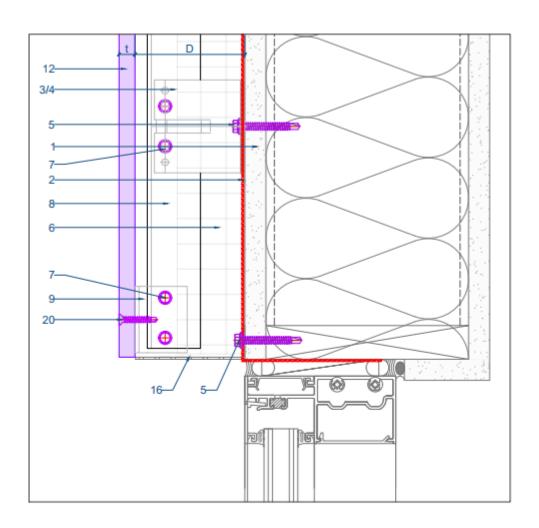
Figure 7: Window Jamb Detail (Option 2)



- Exterior Wall
- Vapor Barrier
- Single Bracket Double Bracket
- Substrate Fastener
- Insulation
- Self-drilling Screw M4.8*19
- 8. L-profile Rail

- 9. Aluminum Angle
- 10. H-Shield Clip
- 11. Starter Track
- 12. H-Shield Panel
- 13. Joint Strip
- 14. Foam Strip
- Joint Sealant
 Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
- 20. Self-drilling Screw M4.8
- D System depth
- t Panel thickness

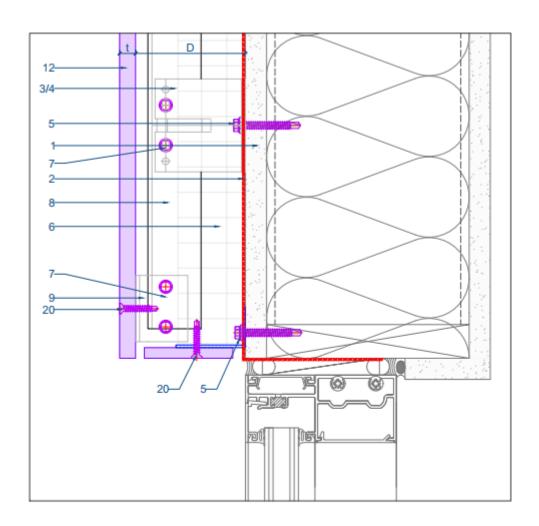
Figure 8: Window Head Detail (Option 1)



- Exterior Wall
- 2. Vapor Barrier
- Single Bracket Double Bracket
- Substrate Fastener
- Insulation
- Self-drilling S
 L-profile Rail Self-drilling Screw M4.8*19

- 9. Aluminum Angle
- 10. H-Shield Clip
- 11. Starter Track
- 12. H-Shield Panel
- 13. Joint Strip
- 14. Foam Strip
- Joint Sealant
 Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
- 20. Self-drilling Screw M4.8
- D System depth
- t Panel thickness

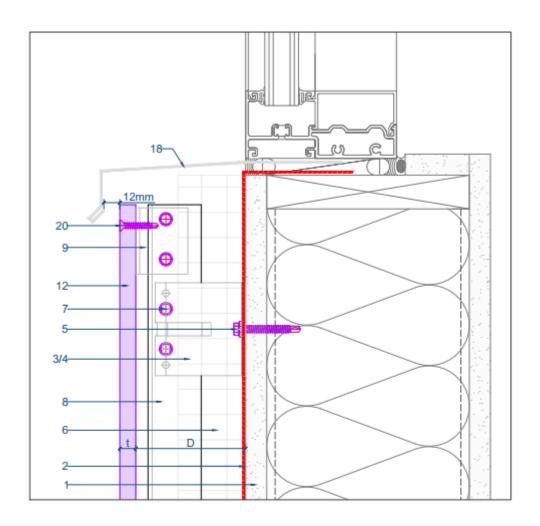
Figure 9: Window Head Detail (Option 2)



- Exterior Wall
- 2. Vapor Barrier
- Single Bracket Double Bracket
- Substrate Fastener
- Insulation Self-drilling Screw M4.8*19
- Self-drilling S
 L-profile Rail

- Aluminum Angle
- 10. H-Shield Clip
- 11. Starter Track
- 12. H-Shield Panel
- 13. Joint Strip
- 14. Foam Strip
- Joint Sealant
 Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
- 20. Self-drilling Screw M4.8
- D System depth
- t Panel thickness

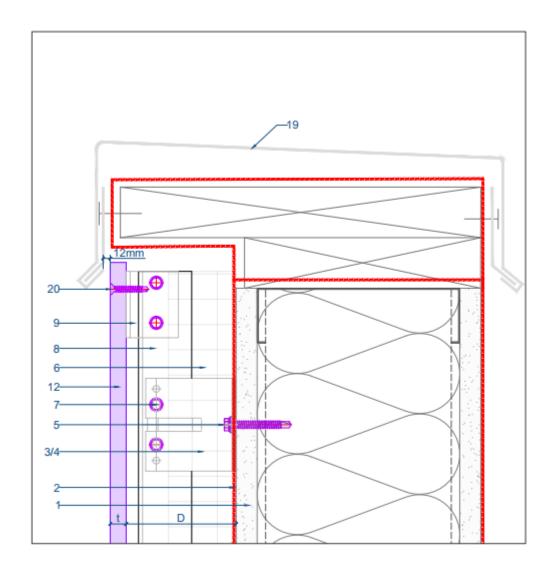
Figure 10: Window Sill Detail



- Exterior Wall
- 2. Vapor Barrier
- 3. Single Bracket Double Bracket
- Substrate Fastener
- Insulation
 Self-drilling Screw M4.8*19
 L-profile Rail

- Aluminum Angle
- 10. H-Shield Clip
- 11. Starter Track
- 12. H-Shield Panel
- 13. Joint Strip
- 14. Foam Strip
- Joint Sealant
 Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
- 20. Self-drilling Screw M4.8
- D System depth
- t Panel thickness

Figure 11: Parapet Detail



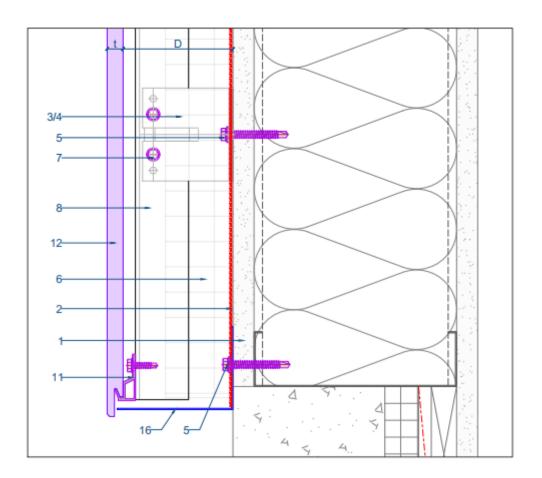
- Exterior Wall
- Vapor Barrier
- Single Bracket
- Double Bracket Substrate Fastener
- 6. Insulation
- Self-drilling Screw M4.8*19
 L-profile Rail

- Aluminum Angle
 H-Shield Clip

- Starter Track
 H-Shield Panel
 Joint Strip
 Foam Strip

- 15. Joint Sealant
- 16. Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
 20. Self-drilling Screw M4.8
 D System depth
 t Panel thickness

Figure 12: Base Detail



- Exterior Wall
- Vapor Barrier
- Single Bracket
- Double Bracket Substrate Fastener
- Insulation
- Self-drilling Screw M4.8*19
- 8. L-profile Rail

- Aluminum Angle
- 10. H-Shield Clip
- 11. Starter Track
- 12. H-Shield Panel
- 13. Joint Strip
- 14. Foam Strip
- 15. Joint Sealant
- 16. Perforated Closure
- 17. Jamb Closure
- 18. Window Sill
- 19. Capping
- 20. Self-drilling Screw M4.8
- D System depth
- t Panel thickness

Remarks

Cleaning

There are two methods of cleaning panel, mechanical cleaning and chemical cleaning. In principle, perform the cleaning of the panel over the entire surface, because partial cleaning can result in color and tonal imbalance. Normal stains can be removed with a sponge and water. Warning High Pressure Cleaning is a rough treatment of panel. Use of a high-pressure cleaner may damage the surface. Therefore, high pressure cleaning is not recommended.

Impact by Pollution and Nature

Weather and nearby vegetation may affect the appearance of the panels. Take caution to avoid pollution, dust and leaves from trees, bushes and flowers to not impact the integrity of the panels. Excessive humidity, salts, or other chemical agents can corrode the panel and attack metal.

Special Information

THE INFORMATION OR DATA IN THIS SHEET SERVES TO ENSURE THE PRODUCT'S INTENDED PURPOSE OR ITS SUITABILITY FOR USE AND IS BASED ON OUR FINDINGS AND EXPERIENCE. NEVERTHELESS, USERS ARE RESPONSIBLE FOR ESTABLISHING THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE. APPLICATIONS OTHER THAN THOSE EXPLICITLY MENTIONED IN THIS TECHNICAL DATA SHEET ARE ONLY PERMISSIBLE AFTER PRIOR CONSULTATION WITH CHONGQING GUANJIE QIZHONG BUILDING MATERIALS CO., LTD WHERE NO APPROVAL IS GIVEN, SUCH APPLICATIONS ARE AT THE RISK OF THE USER. THIS APPLIES IN PARTICULAR WHEN THE PRODUCT IS USED IN COMBINATION WITH OTHER PRODUCTS. WHEN A NEW TECHNICAL DATA SHEET IS PUBLISHED, ALL PREVIOUS TECHNICAL DATA SHEETS ARE NO LONGER VALID.



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