



Building with conscience.

# Sto High Velocity Hurricane Zone (HVHZ) Systems

Detail Booklet

Series 6H.xx, 10H.xx and 90H.xx

July 2025

Facades



High Velocity Hurricane Zone (HVHZ) Systems

Sto High Velocity Hurricane Zone Systems provide a full range of exterior cladding options to protect against hurricane and tropical storm winds, water intrusion, and wind-borne debris: a leading cause of building envelope failure. All of Sto's HVHZ Systems are fully engineered and tested, and compliant with Miami-Dade County, Florida criteria for wind load, impact resistance, air leakage, and water resistance.





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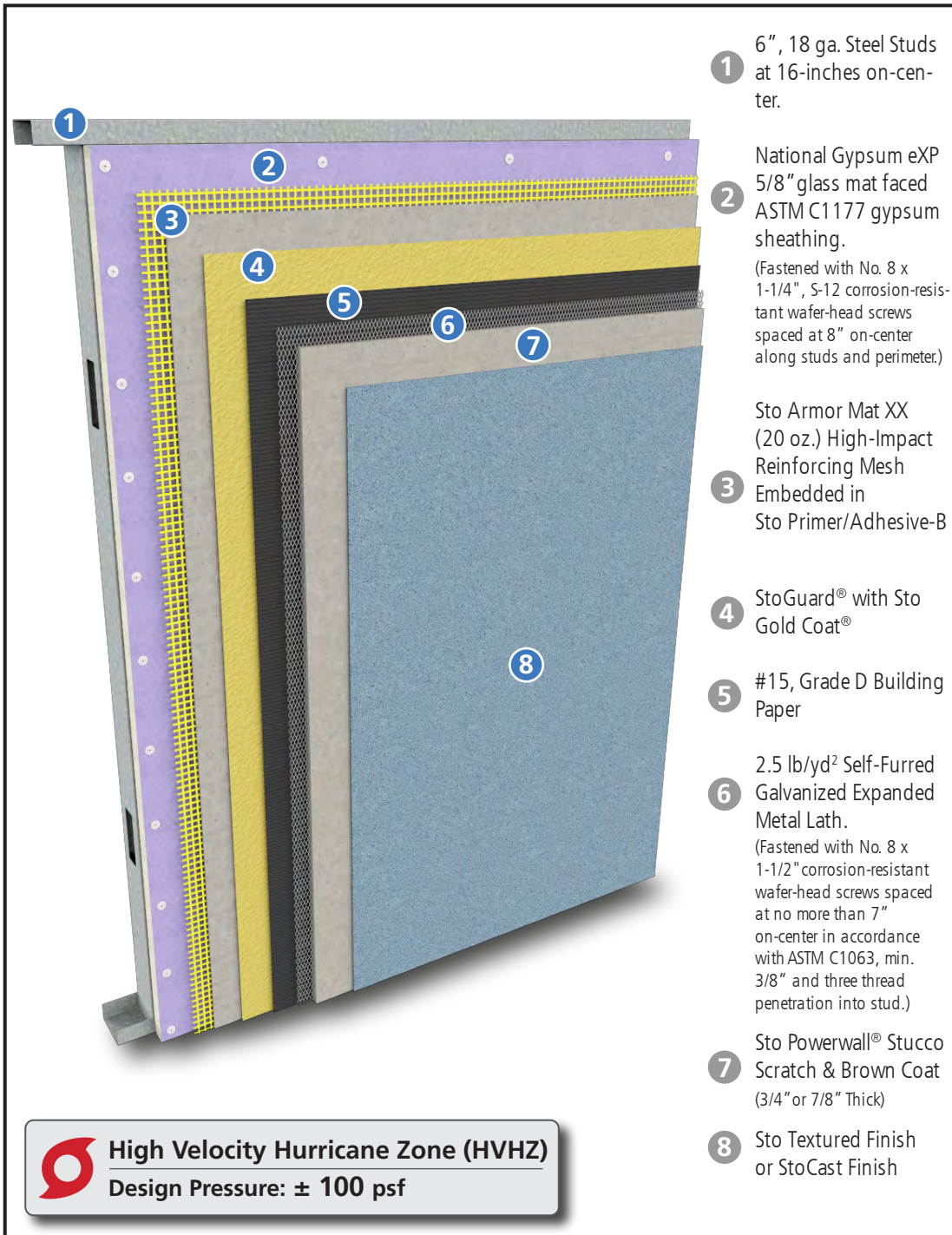
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# StoPowerwall® GMG

## High Velocity Hurricane Zone System - Large and Small Missile

Detail No.: 6H.01  
Date: July 2025



### Notes:

1. Comply with written requirements presented in official Notice of Acceptance (NOA) available at [www.stocorp.com](http://www.stocorp.com) and [www.miamidade.gov](http://www.miamidade.gov).
2. Materials deemed equivalent or better may be substituted based on analysis by a qualified engineer and/or at the discretion of the local code official in locations outside of the High Velocity Hurricane Zone (Dade and Broward Counties, Florida).
3. Other construction deemed to comply with FBC Section 1626, High-Velocity Hurricane Zone include:
  - a. Minimum, nominal 8 inch CMU wall (Compliant with Chapter 21).
  - b. Frame wall (Compliant with Chapter 22 and 23) with a minimum 19/32 inch CD Exposure 1 Plywood.
4. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.
5. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

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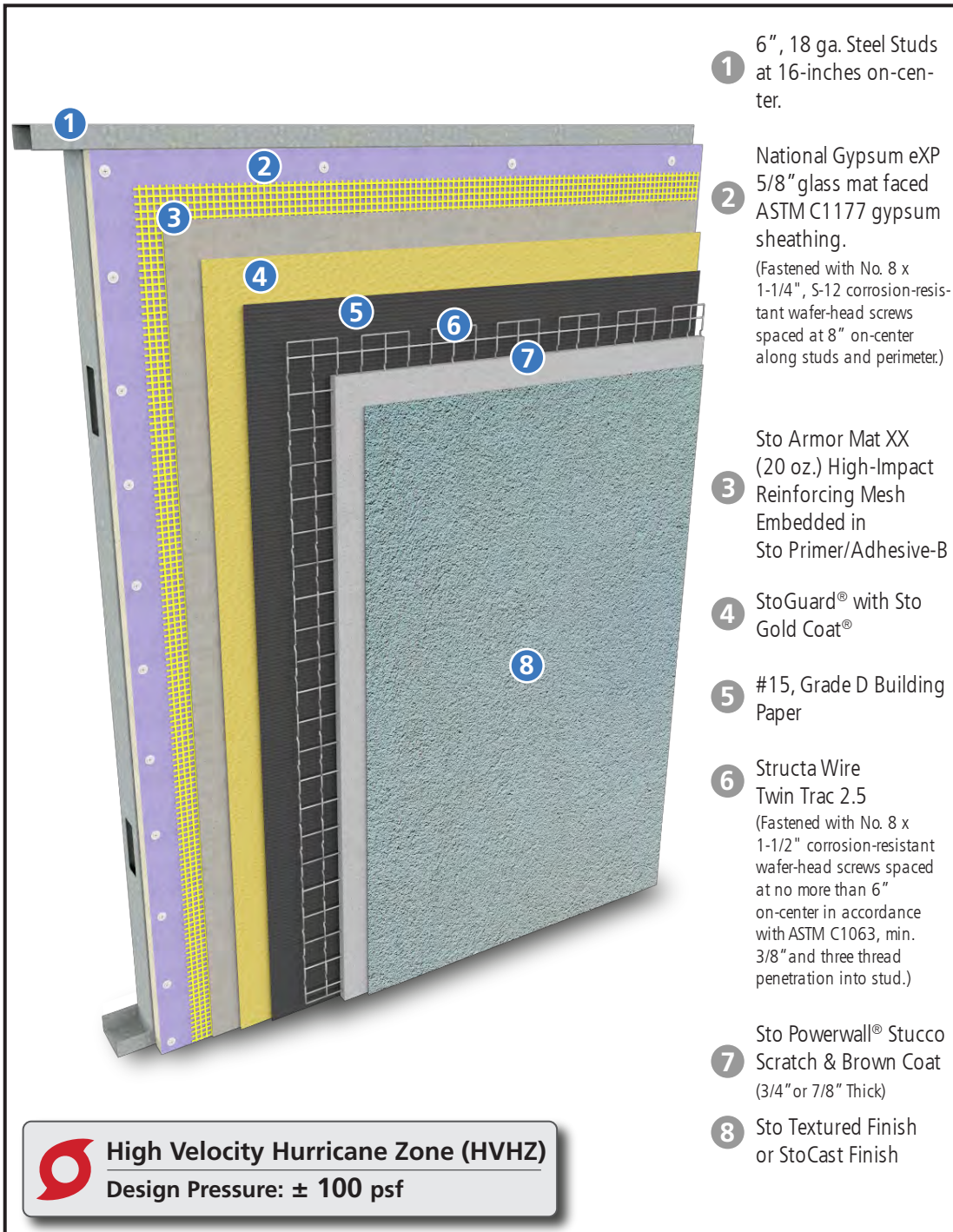


# StoPowerwall® GMG with Structa Wire

## High Velocity Hurricane Zone System - Large and Small Missile

Detail No.: 6H.02

Date: July 2025



### Notes:

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3. Other construction deemed to comply with FBC Section 1626, High-Velocity Hurricane Zone include:
  - a. Minimum, nominal 8 inch CMU wall (Compliant with Chapter 21).
  - b. Frame wall (Compliant with Chapter 22 and 23) with a minimum 19/32 inch CD Exposure 1 Plywood.
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# StoPowerwall® GMG with Sto DrainScreen® High Velocity Hurricane Zone System - Large and Small Missile

Detail No.: 6H.03  
Date: July 2025



## Notes:

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2. Materials deemed equivalent or better may be substituted based on analysis by a qualified engineer and/or at the discretion of the local code official in locations outside of the High Velocity Hurricane Zone (Dade and Broward Counties, Florida).

3. Other construction deemed to comply with FBC Section 1626, High-Velocity Hurricane Zone include:

- Minimum, nominal 8 inch CMU wall (Compliant with Chapter 21).
- Frame wall (Compliant with Chapter 22 and 23) with a minimum 19/32 inch CD Exposure 1 Plywood.

4. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.

5. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.



**High Velocity Hurricane Zone (HVHZ)**  
**Design Pressure: ± 100 psf**

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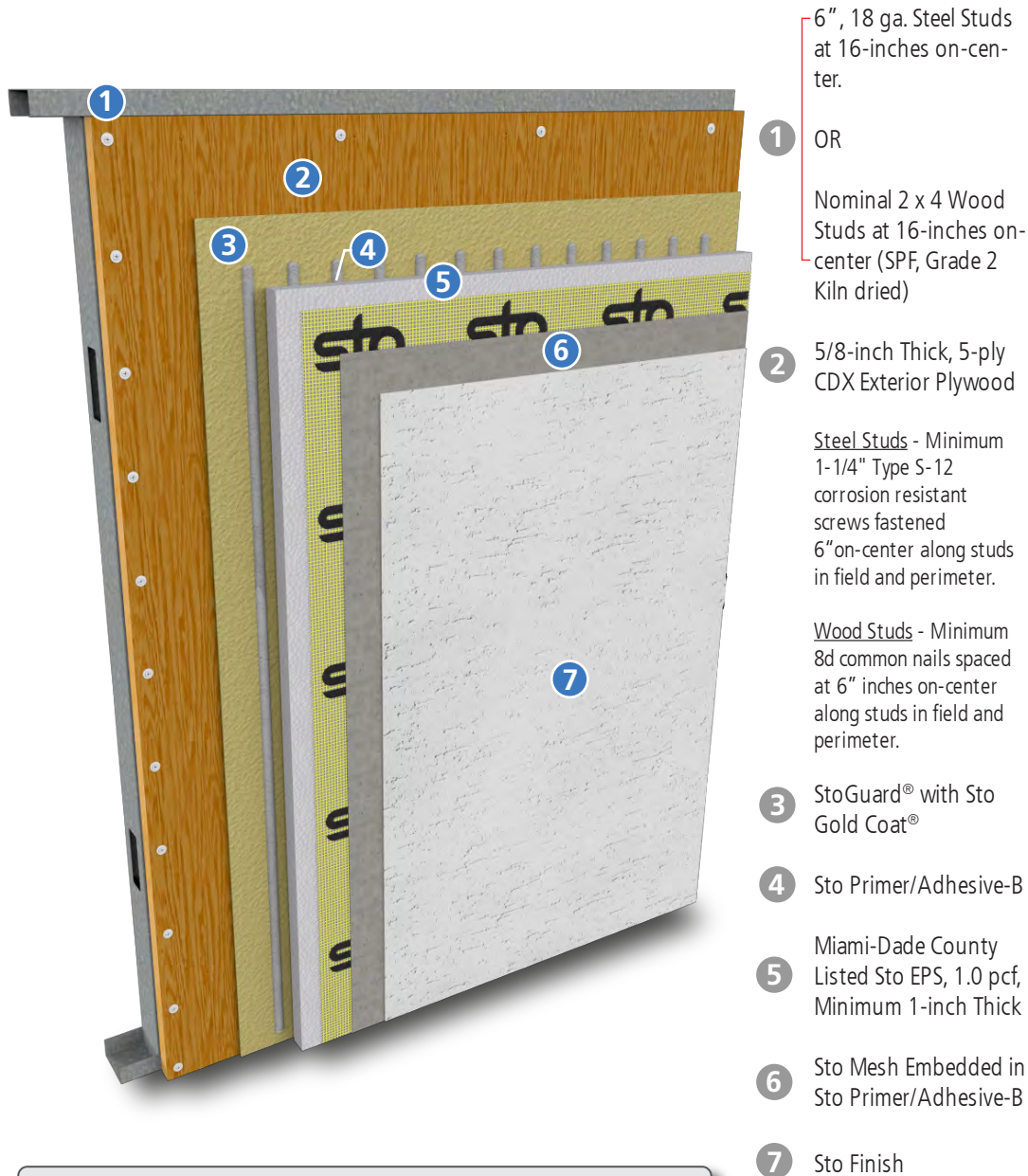
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# StoTherm®ci PLY

## High Velocity Hurricane Zone System - Large and Small Missile

Detail No.: 10H.04  
Date: July 2025



- 6", 18 ga. Steel Studs at 16-inches on-center.
- 1 OR
- Nominal 2 x 4 Wood Studs at 16-inches on-center (SPF, Grade 2 Kiln dried)
- 2 5/8-inch Thick, 5-ply CDX Exterior Plywood
- Steel Studs - Minimum 1-1/4" Type S-12 corrosion resistant screws fastened 6" on-center along studs in field and perimeter.
- Wood Studs - Minimum 8d common nails spaced at 6" inches on-center along studs in field and perimeter.
- 3 StoGuard® with Sto Gold Coat®
- 4 Sto Primer/Adhesive-B
- 5 Miami-Dade County Listed Sto EPS, 1.0 pcf, Minimum 1-inch Thick
- 6 Sto Mesh Embedded in Sto Primer/Adhesive-B
- 7 Sto Finish

### Notes:

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3. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.
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### High Velocity Hurricane Zone (HVHZ)

Design Pressure:  $\pm 100$  psf Wood Studs (LM and SM)  
Design Pressure:  $\pm 125$  psf Steel Studs (LM and SM)

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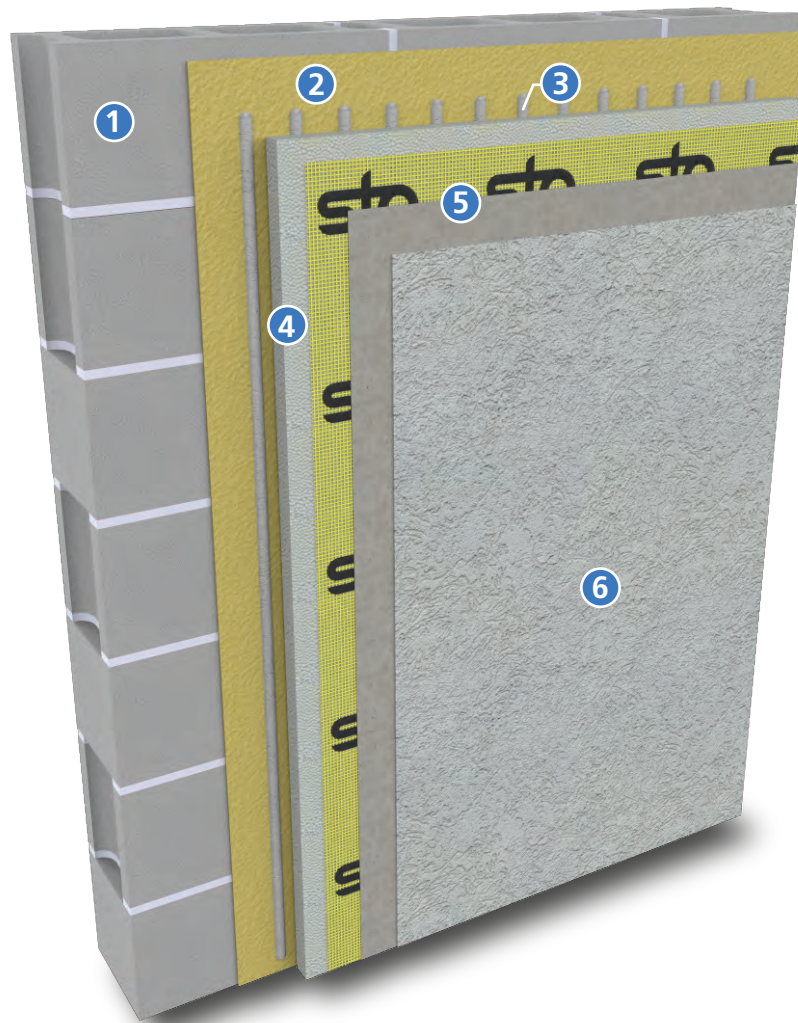




# StoTherm®ci CMU

## High Velocity Hurricane Zone System - Large and Small Missile

Detail No.: 10H.13  
Date: July 2025



- 1 Nominal 8-inch Hollow- Core Concrete Masonry (CMU) Substrate
- 2 StoGuard® with Gold Coat®
- 3 Sto Primer/Adhesive-B
- 4 Miami-Dade County Listed Sto EPS, 1.0 pcf, Minimum 1-inch Thick
- 5 Sto Mesh embedded in Sto Primer/Adhesive-B
- 6 Sto Finish

### Notes:

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**High Velocity Hurricane Zone (HVHZ)**  
**Design Pressure: ± 180 psf**

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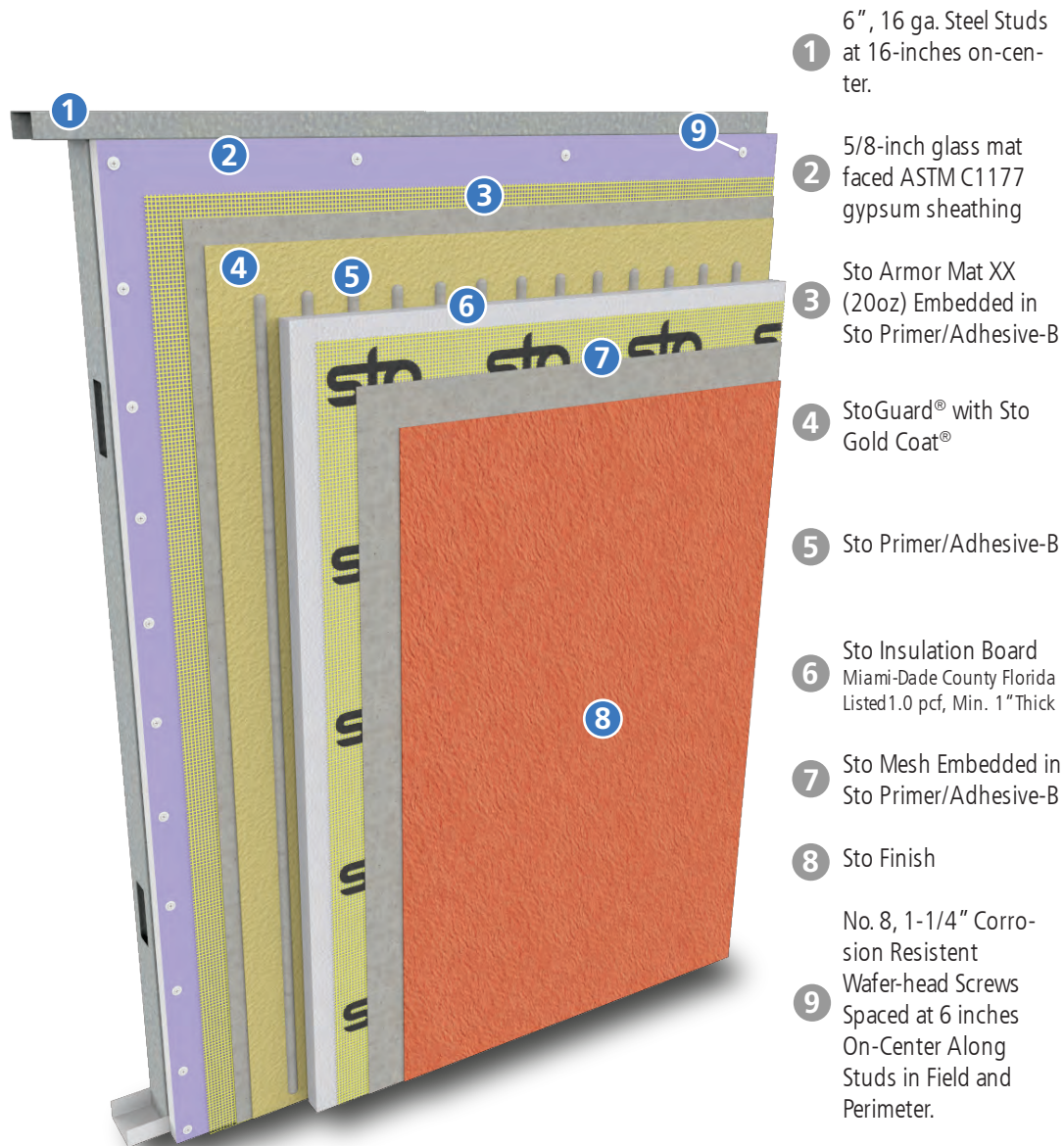




# StoTherm®ci GMG-LM

## High Velocity Hurricane Zone System - Large Missile, 16ga.

Detail No.: 10H.14  
Date: July 2025



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3. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.
4. This system can be used for field applied and StoPanel® pre-fabricated panel wall construction.
5. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.



### High Velocity Hurricane Zone (HVHZ)

Design Pressure:  $\pm 150$  psf National Gypsum eXP®

Design Pressure:  $\pm 150$  psf USG Securock®

Design Pressure:  $\pm 120$  psf CertainTeed GlasRoc®

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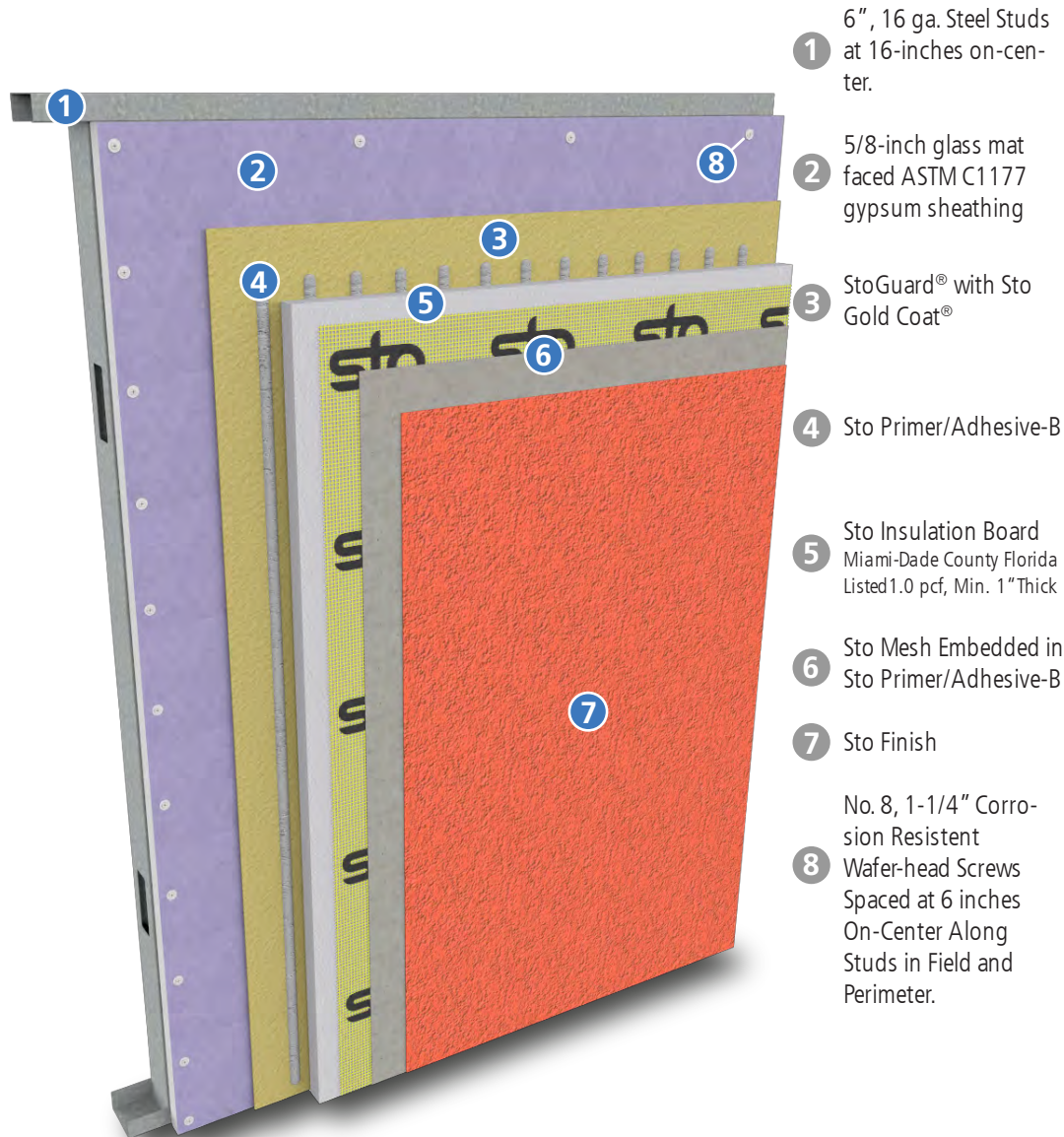
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# StoTherm®ci GMG-SM

## High Velocity Hurricane Zone System - Small Missile, 16ga.

Detail No.: 10H.15  
Date: July 2025



### Notes:

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3. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.
4. This system can be used for field applied and StoPanel® pre-fabricated panel wall construction.
5. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.



### High Velocity Hurricane Zone (HVHZ)

Design Pressure:  $\pm 150$  psf National Gypsum eXP®

Design Pressure:  $\pm 140$  psf USG Securock®

Design Pressure:  $\pm 120$  psf CertainTeed GlasRoc®

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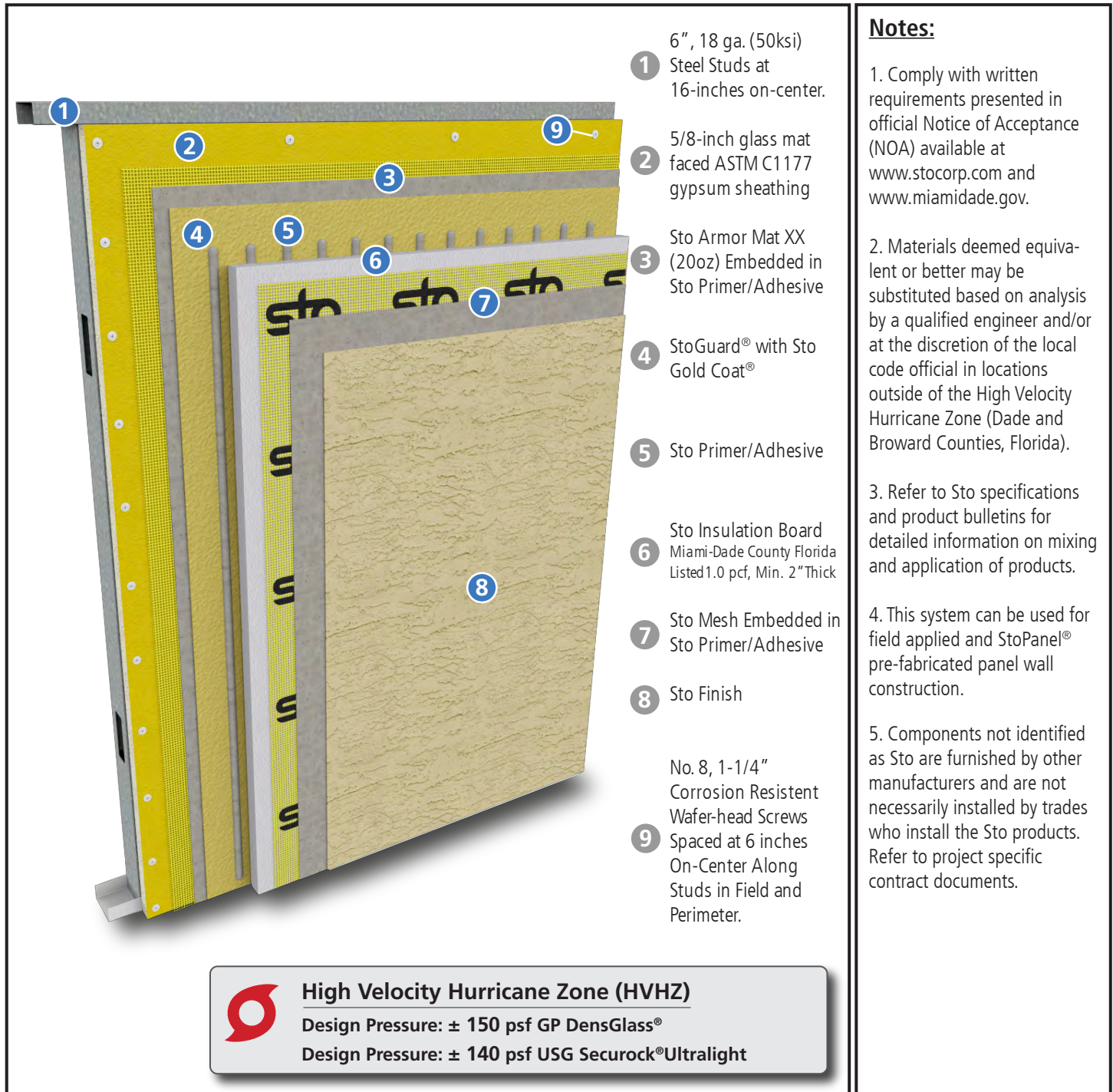




# StoTherm®ci GMG-LM

## High Velocity Hurricane Zone System - Large Missile, 18ga.

Detail No.: 10H.16  
Date: July 2025



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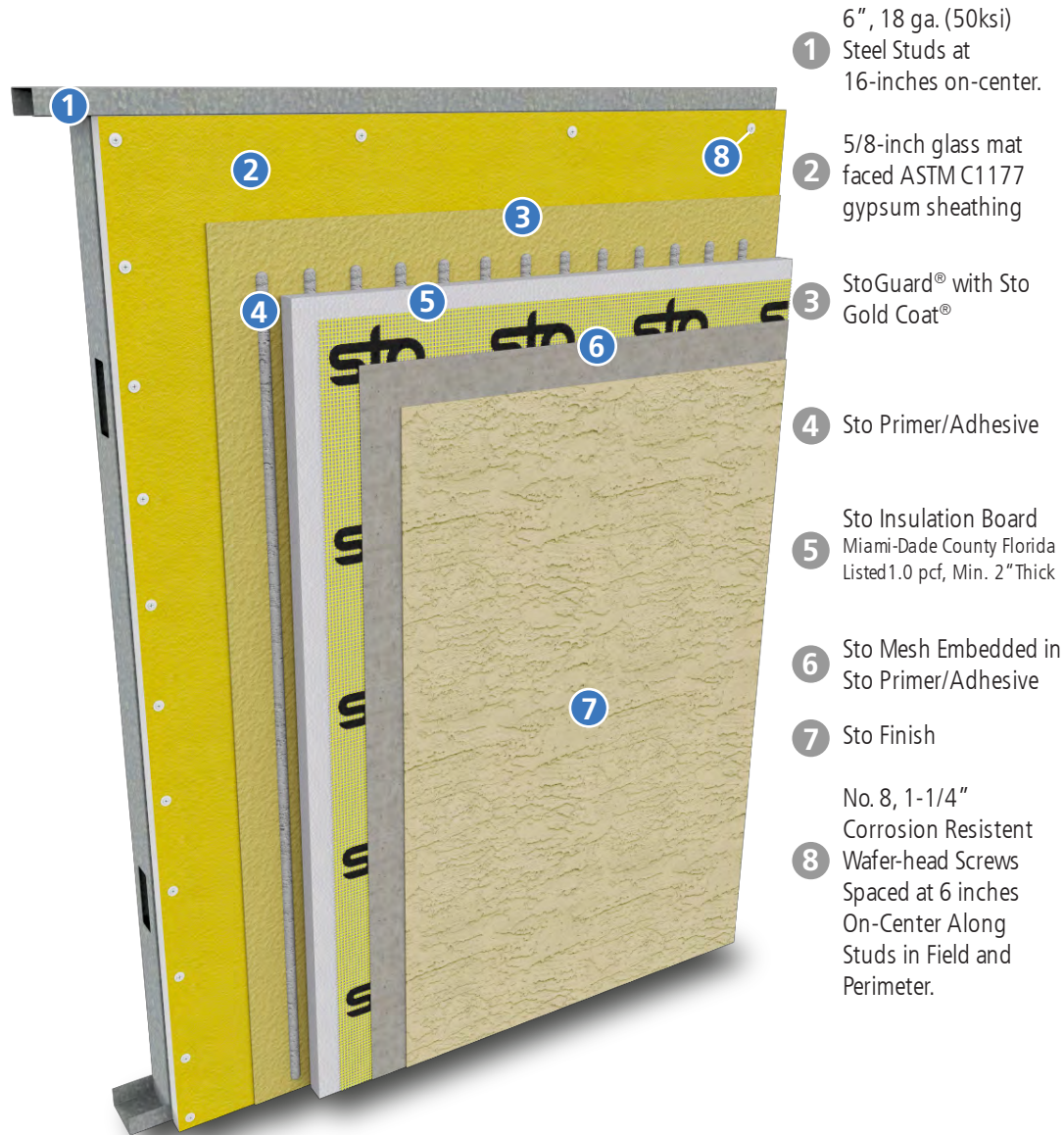
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# StoTherm®ci GMG-SM

## High Velocity Hurricane Zone System - Small Missile, 18ga.

Detail No.: 10H.17  
Date: July 2025



### High Velocity Hurricane Zone (HVHZ)

Design Pressure:  $\pm 150$  psf GP DensGlass®

Design Pressure:  $\pm 120$  psf USG Securock®Ultralight

### Notes:

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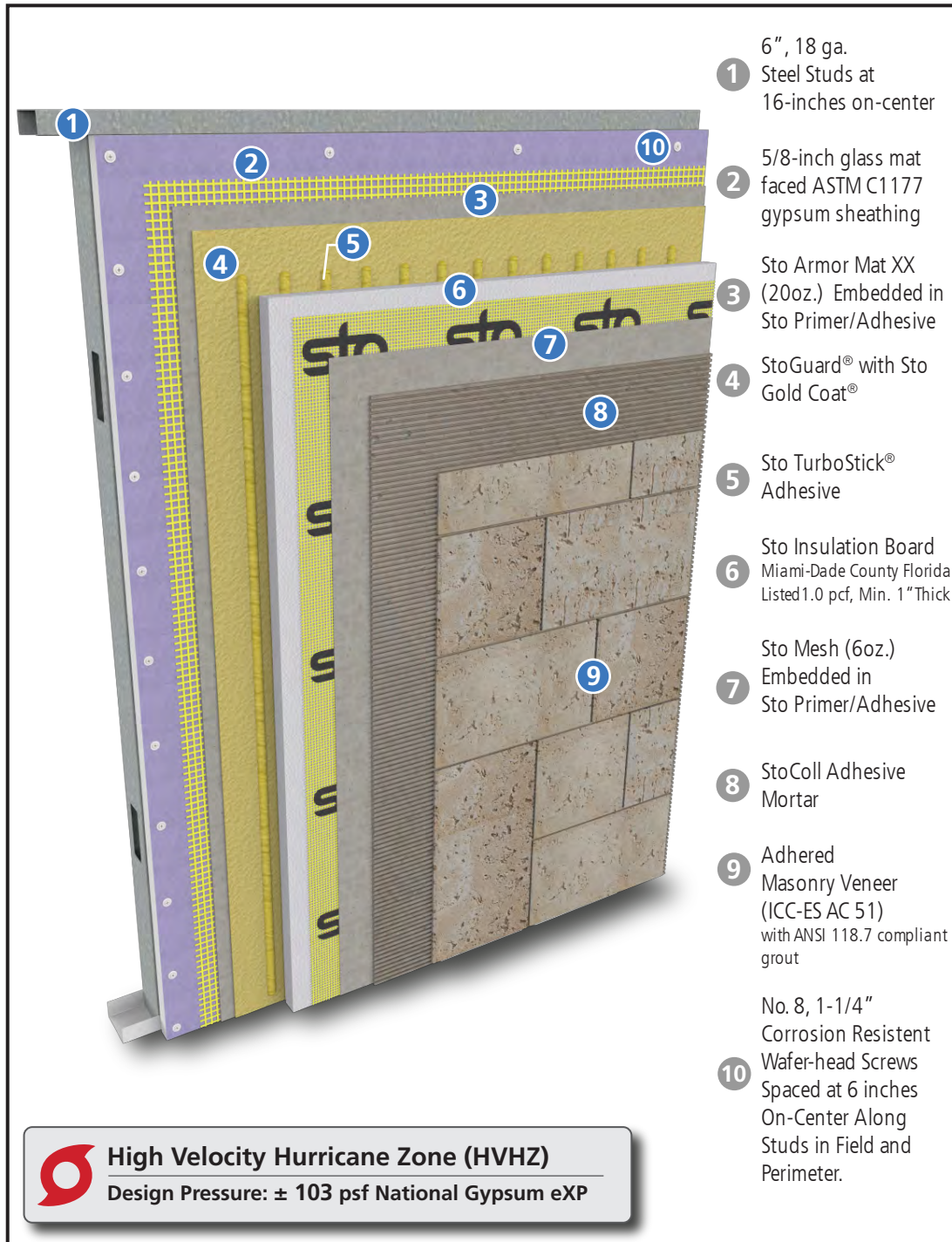




# StoTherm®ci MVES GMG-LM

## High Velocity Hurricane Zone System - Large Missile, 18ga.

Detail No.: 10H.18  
Date: July 2025



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5. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.
6. Supplemental fasteners required: Corrosion resistant self-drilling screws with 1-1/4 inch (32mm) diameter galvanized steel washer installed through the reinforced base coat (with washer seated on base coat) into framing members at 36 inches (914mm) on center vertically and 16 inches (406mm) horizontally. Screw threads must engage steel studs and be of sufficient length to penetrate minimum three full threads beyond the stud thickness.

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# StoTherm®ci MVES GMG-SM

## High Velocity Hurricane Zone System - Small Missile, 18ga.

Detail No.: 10H.19

Date: July 2025

**Notes:**

1. Comply with written requirements presented in official Notice of Acceptance (NOA) available at [www.stocorp.com](http://www.stocorp.com) and [www.miamidade.gov](http://www.miamidade.gov).
2. Materials deemed equivalent or better may be substituted based on analysis by a qualified engineer and/or at the discretion of the local code official in locations outside of the High Velocity Hurricane Zone (Dade and Broward Counties, Florida).
3. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.
4. This system can be used for field applied and StoPanel® pre-fabricated panel wall construction.
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**High Velocity Hurricane Zone (HVHZ)**  
Design Pressure:  $\pm 112$  psf National Gypsum eXP

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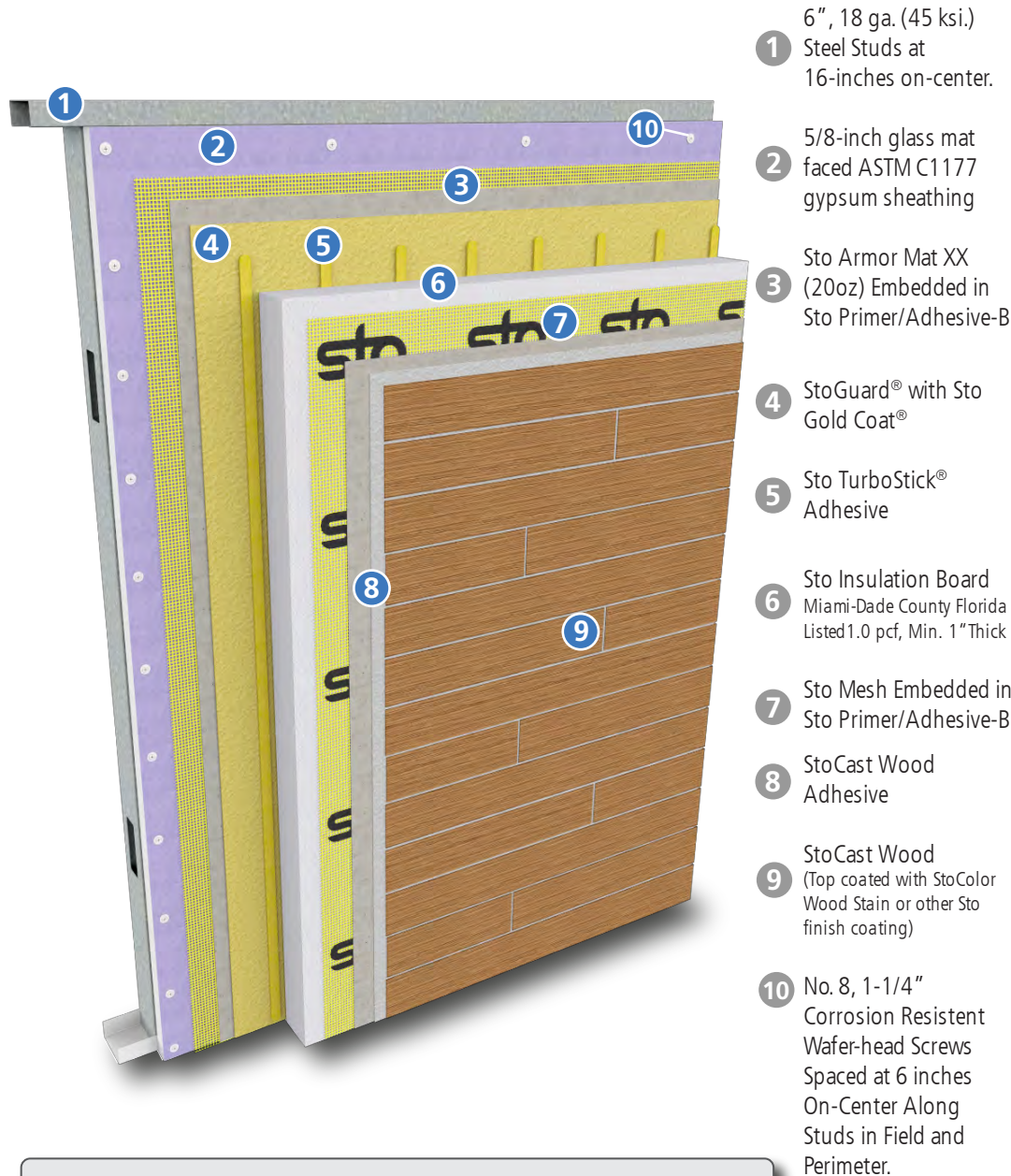
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# StoTherm®ci with StoCast Wood GMG-LM High Velocity Hurricane Zone System - Large Missile, 18ga.

Detail No.: 10H.20  
Date: July 2025



## Notes:

1. Comply with written requirements presented in official Notice of Acceptance (NOA) available at [www.stocorp.com](http://www.stocorp.com) and [www.miamidade.gov](http://www.miamidade.gov).
2. Materials deemed equivalent or better may be substituted based on analysis by a qualified engineer and/or at the discretion of the local code official in locations outside of the High Velocity Hurricane Zone (Dade and Broward Counties, Florida).
3. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.
4. This system can be used for field applied and StoPanel® pre-fabricated panel wall construction.
5. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.



## High Velocity Hurricane Zone (HVHZ)

Design Pressure:  $\pm 105$  psf National Gypsum eXP®

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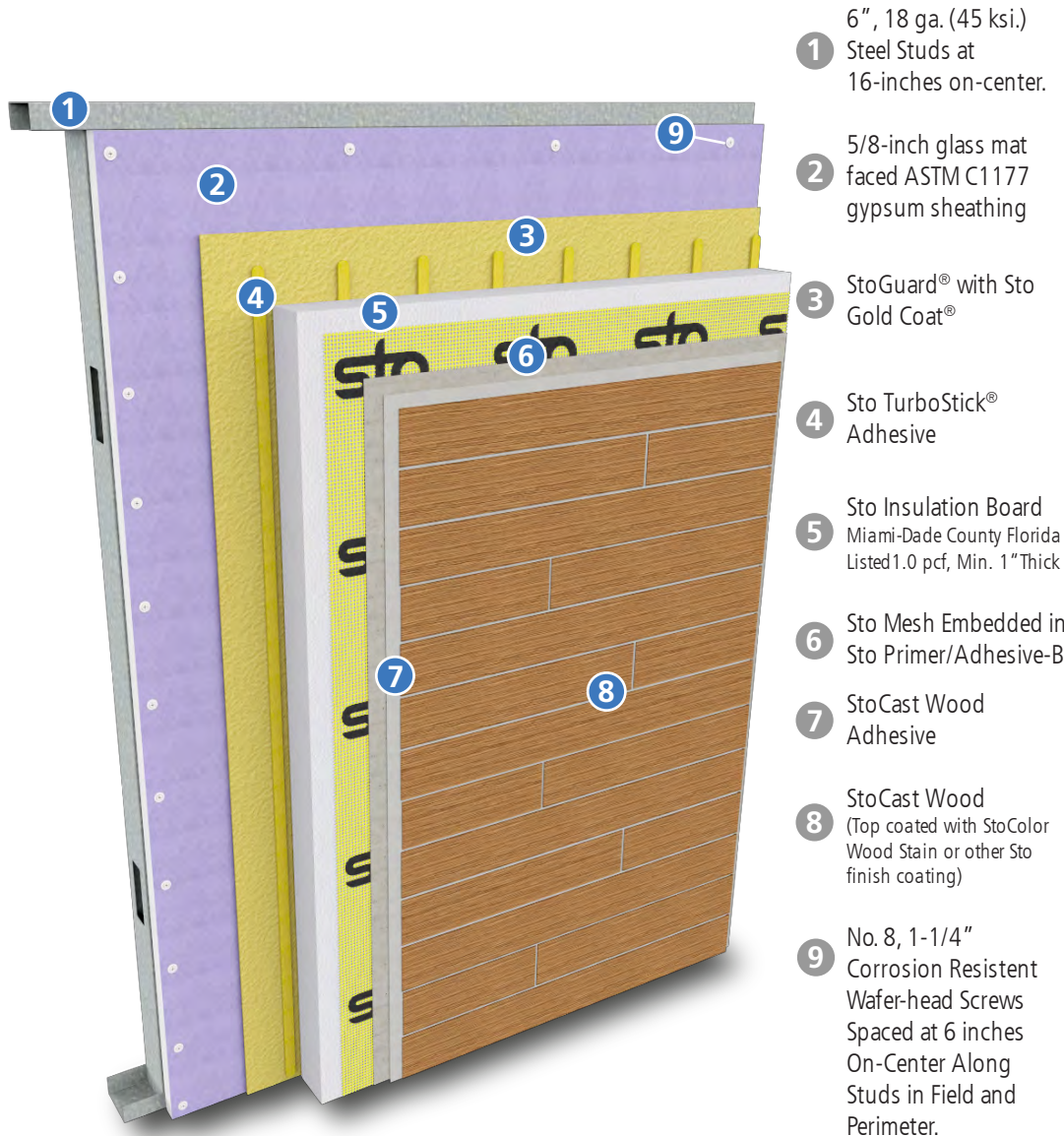
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# StoTherm®ci with StoCast Wood GMG-SM High Velocity Hurricane Zone System - Small Missile, 18ga.

Detail No.: 10H.21  
Date: July 2025



## Notes:

1. Comply with written requirements presented in official Notice of Acceptance (NOA) available at [www.stocorp.com](http://www.stocorp.com) and [www.miamidade.gov](http://www.miamidade.gov).
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4. This system can be used for field applied and StoPanel® pre-fabricated panel wall construction.
5. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.



## High Velocity Hurricane Zone (HVHZ)

Design Pressure:  $\pm 112$  psf National Gypsum eXP®

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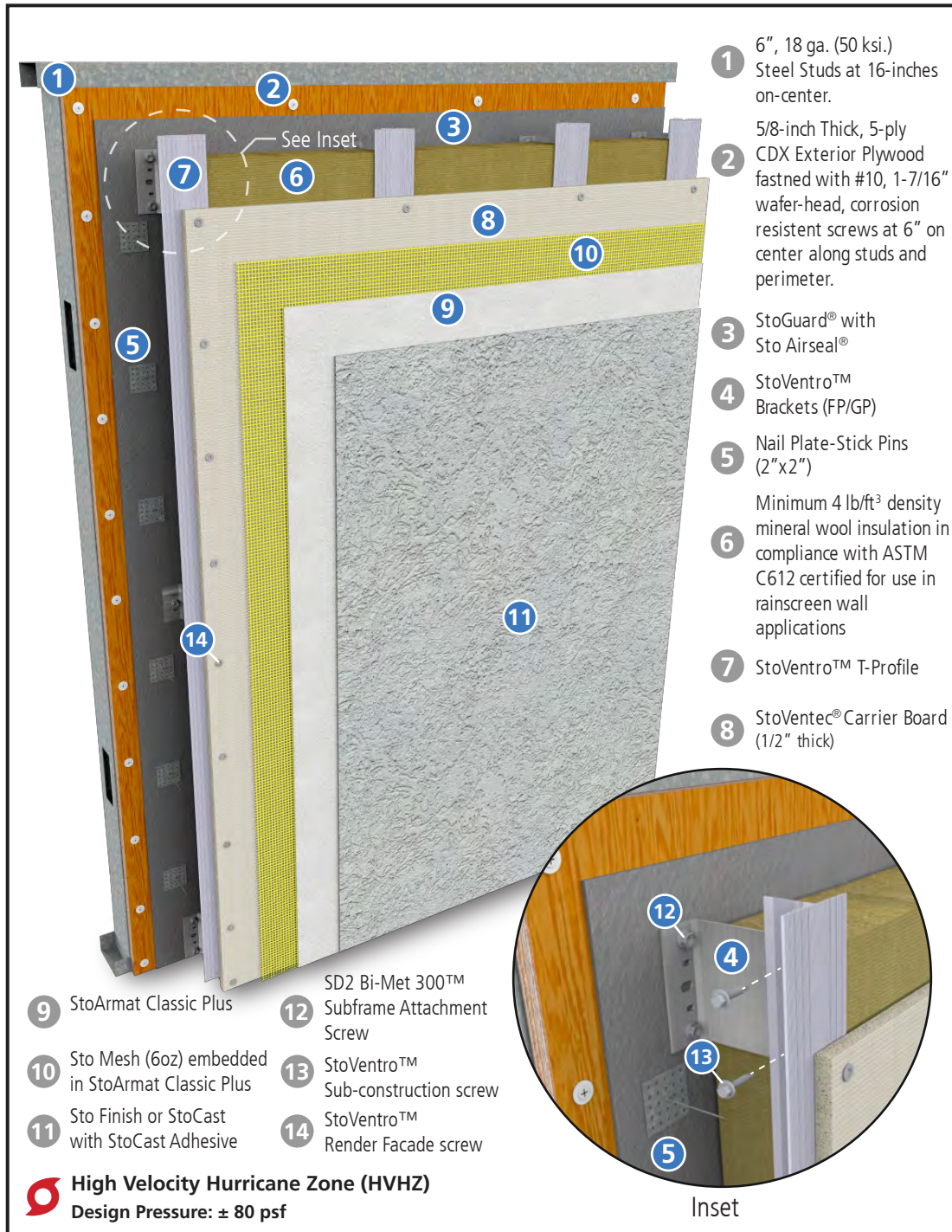




# StoVentec® Render

## High Velocity Hurricane Zone System - Large & Small Missile, 18ga.

Detail No.: 90H.01  
Date: July 2025



### Notes:

1. StoVentec Render is applicable to plywood (over steel frame construction), concrete, and concrete masonry substrates. Refer to Typical Anchors table in the NOA for specific information on bracket spacing, anchors used for bracket attachment for each substrate, and embedment depth of anchors. Comply with written requirements presented in official Notice of Acceptance (NOA) available at [www.stocorp.com](http://www.stocorp.com) and [www.miamidade.gov](http://www.miamidade.gov).

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3. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.

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**High Velocity Hurricane Zone (HVHZ)**  
Design Pressure:  $\pm 80$  psf

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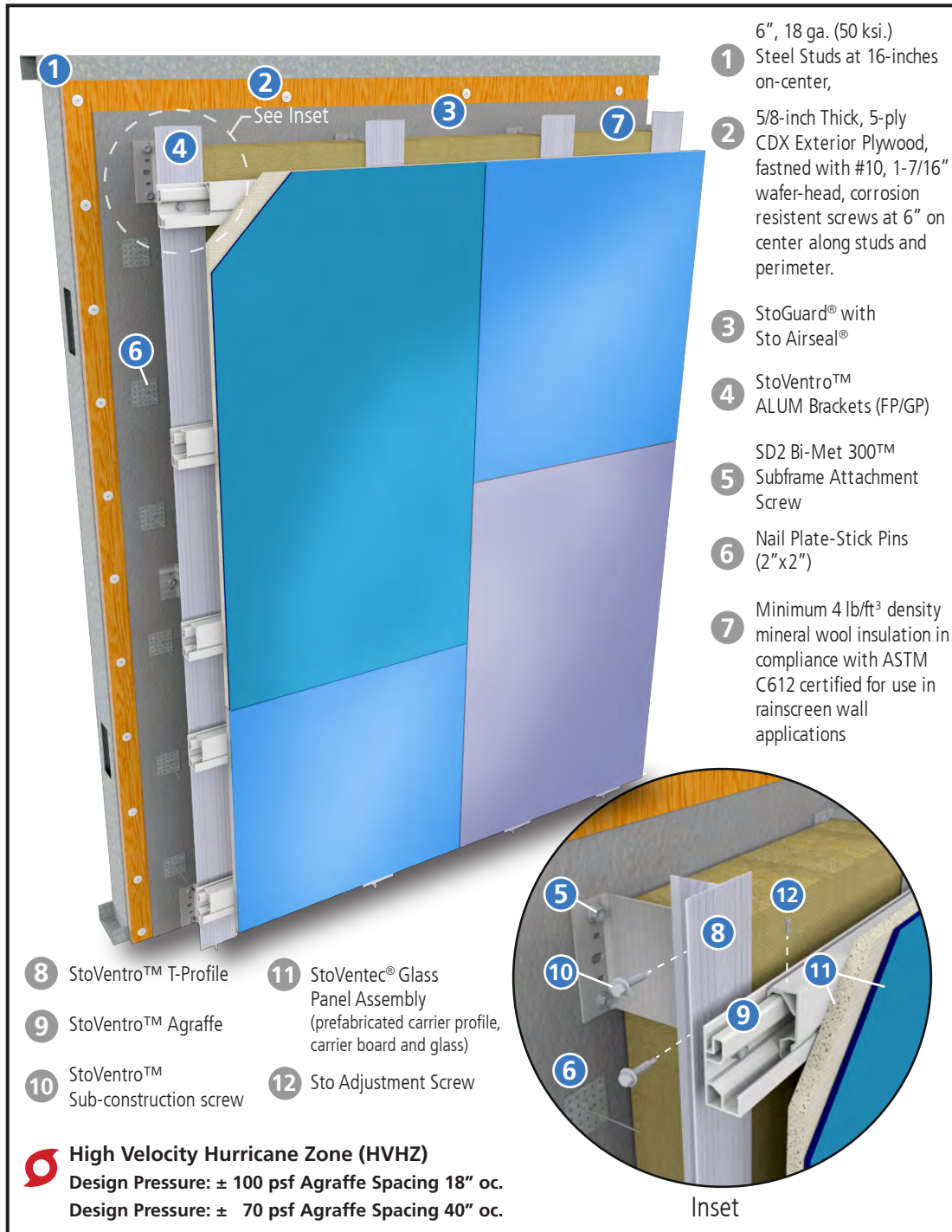
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# StoVentec® Glass

## High Velocity Hurricane Zone System - Large & Small Missile, 18ga.

Detail No.: 90H.02  
Date: July 2025



### Notes:

1. StoVentec Glass is applicable to plywood (over steel frame construction), concrete, and concrete masonry substrates. Refer to Typical Anchors table on page 5 of the NOA for specific information on bracket spacing, anchors used for bracket attachment for each substrate, and embedment depth of anchors.. Comply with written requirements presented in official Notice of Acceptance (NOA) available at [www.stocorp.com](http://www.stocorp.com) and [www.miamidade.gov](http://www.miamidade.gov).

2. Materials deemed equivalent or better may be substituted based on analysis by a qualified engineer and/or at the discretion of the local code official in locations outside of the High Velocity Hurricane Zone (Dade and Broward Counties, Florida).

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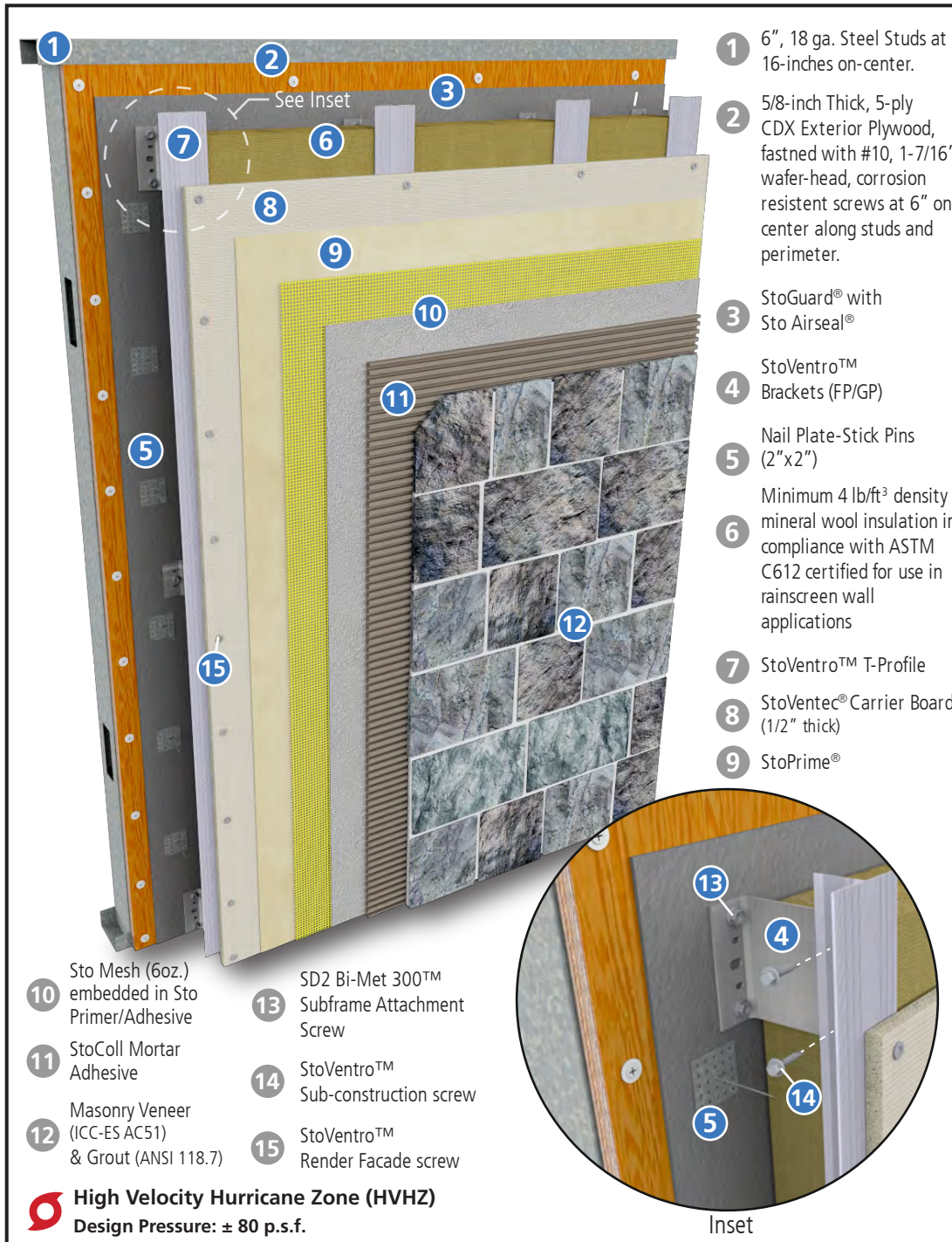




# StoVentec® for Masonry Veneer Facades

## High Velocity Hurricane Zone System - Large & Small Missile, 18ga.

Detail No.: 90H.03  
Date: July 2025



### Notes:

1. StoVentec for Masonry Veneer Facades is applicable to plywood (over steel frame construction), concrete, and concrete masonry substrates. Refer to Typical Anchors table in the NOA for specific information on bracket spacing, anchors used for bracket attachment for each substrate, and embedment depth of anchors. Comply with written requirements presented in official Notice of Acceptance (NOA) available at [www.stocorp.com](http://www.stocorp.com) and [www.miamidade.gov](http://www.miamidade.gov).

2. Materials deemed equivalent or better may be substituted based on analysis by a qualified engineer and/or at the discretion of the local code official in locations outside of the High Velocity Hurricane Zone (Dade and Broward Counties, Florida).

3. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.

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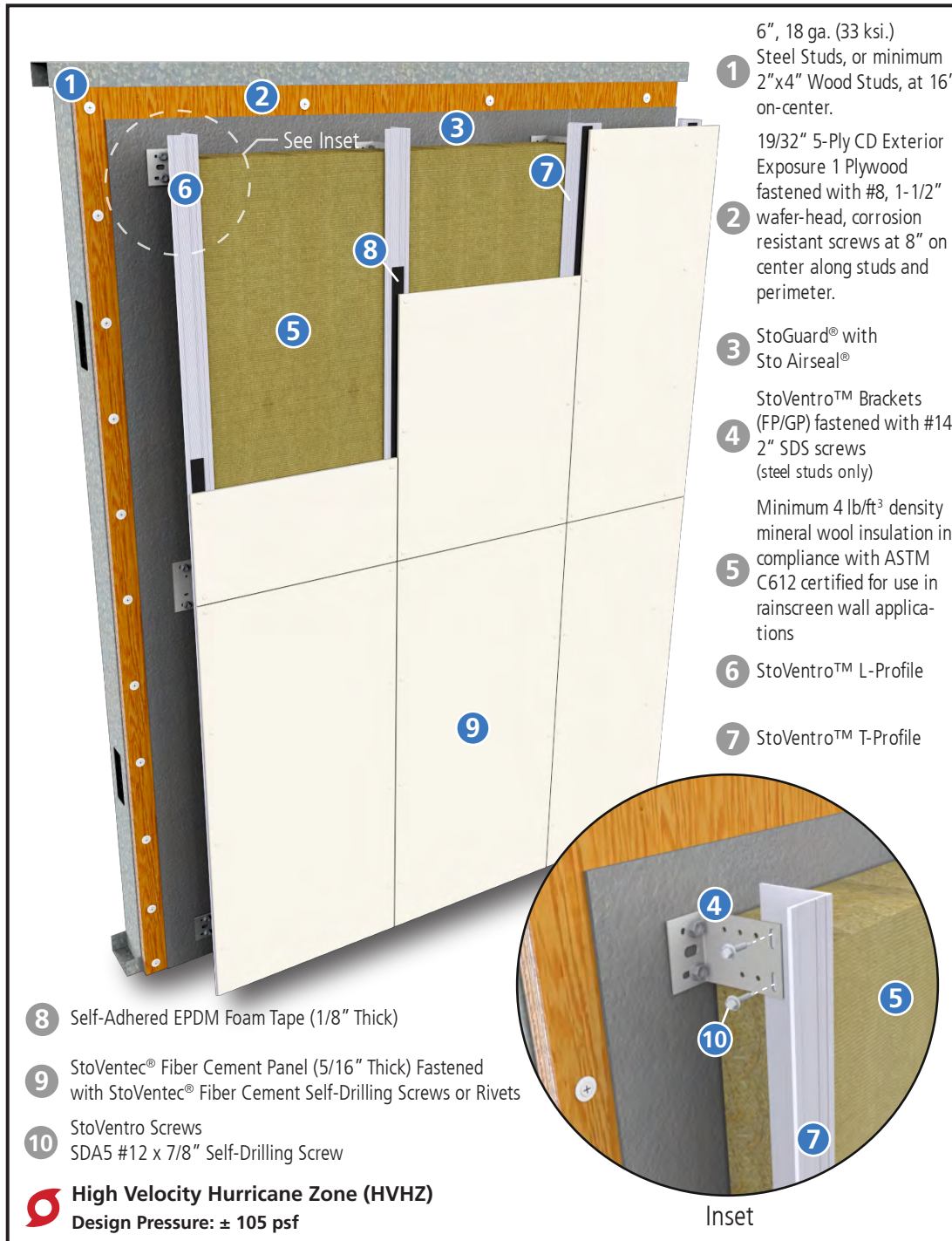
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# StoVentec® Fiber Cement

## High Velocity Hurricane Zone System - Large & Small Missile

Detail No.: 90H.04  
Date: July 2025



### Notes:

1. StoVentec® Fiber Cement is applicable to plywood (over wood and steel frame construction), concrete, and concrete masonry substrates constructed in accordance with applicable sections of the FBC (Florida Building Code). Refer to and comply with written requirements of Intertek CCRR 0600 evaluation (Sections 5.0 and 9.0) for bracket spacing, anchors used for bracket attachment, and embedment depth of anchors. For concrete and concrete masonry substrates special design and verification is required to ensure withdrawal capacity of each bracket is 310 lbs. Evaluation report can be found at: [www.stocorp.com](http://www.stocorp.com)

2. Materials deemed equivalent or better may be substituted based on analysis by a qualified engineer and/or at the discretion of the local code official in locations outside of the High Velocity Hurricane Zone (Dade and Broward Counties, Florida).

3. Refer to Sto specifications and product bulletins for detailed information on mixing and application of products.

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