

## Hurricane Systems

Master Wall<sup>®</sup> Systems have some of the best wind load ratings in our industry but when a hurricane strikes it's about more than wind, it's about debris and how the wall performs after being damaged. Dade County developed large and small missile impact tests to replicate how wind-borne debris will affect a wall system. The Florida Building Code also adapted these requirements in the High Velocity Hurricane Zone (HVHZ) areas.

The code lists a few assemblies that are approved such as an 8" CMU/concrete wall or a stucco system with 19/32" plywood, but aside from that a manufacturer must test their wall systems to verify compliance to the code. The Dade testing is not easy. For large missile testing the wall has to resist a 2x4 being shot at the wall, then the damaged wall is tested to a "rating" following a cycle to replicate wind gusts. Only after testing without failure is the wall considered to pass. Small missile testing is similar but with small debris being shot at the wall system.

Master Wall has a variety of compliant systems that are practical to build with good wind ratings. Where applicable the pages are linked to our Dade County compliance report.

Information contained in this product data sheet conforms to the standard detail recommendations and specifications for the installation of Master Wall Inc.<sup>®</sup> products and is presented in good faith. Master Wall Inc.<sup>®</sup> assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents, such as specifications and details. Contact Master Wall Inc.<sup>®</sup> for the most current product information.  
©2023 Master Wall Inc.<sup>®</sup>



**masterwall.com**

PO Box 397 • Fortson • GA • 31808 • 800-755-0825

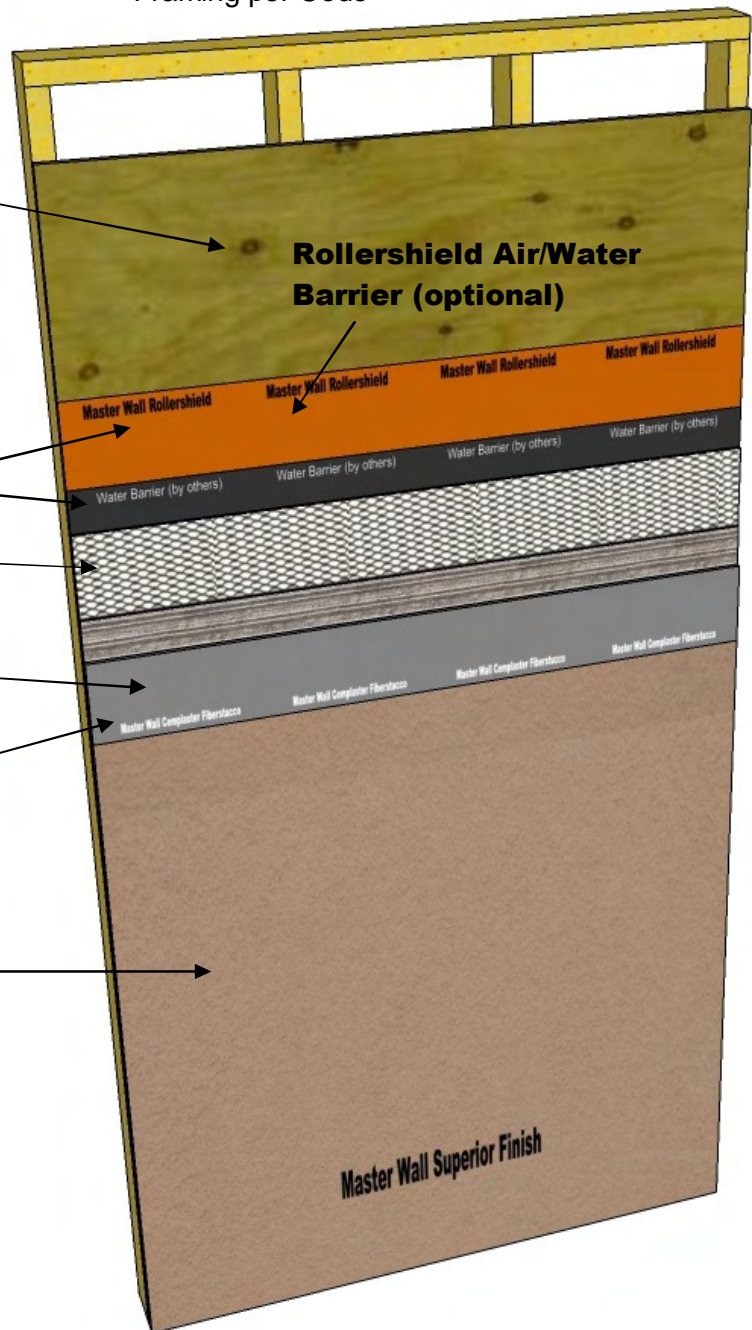


## System Detail

2322.3.2 Wall sheathing shall be plywood, or product approved structural panel, rated Exposure 1 with a minimum thickness of 19/32 inch (15 mm) and shall be applied to studs spaced not more than 16-inches (406 mm) on center. Wall sheathing shall be continuous over three or more supports and shall be nailed to such supports with 8d common nails. Nail spacing shall not exceed 6-inches (152 mm) on center at panel edges and all inter-mediate supports. Nail spacing shall be 4-inches (102mm) on center at corner studs, in all cases.

Framing per Code

- 2-Weather Resistive Barriers
- Lath Reinforcement
- 3/4" or 7/8" Cemplaster Fiberstucco (warranted, shown)**
- 3/4" or 7/8" Stucco, no warranty (optional)



**Superior Finish**

Deemed Large & Small Missile Impact Compliant per FBC 2017 (6th Edition) Section 1626.4.2 and 2322.3

### **H00F4 Hurricane Assembly**

These drawings relay the conceptual conditions of Master Wall<sup>®</sup> Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall<sup>®</sup> Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold = Master Wall<sup>®</sup> Product.**



## System Detail

**MIAMI-DADE COUNTY**  
**APPROVED**

Dade NOA No. 21-0414.01  
Expires 6/16/2026

3-5/8" x 18 ga metal framing @ 16" o.c.

1/2" Sheathing fastened with #6 x 1-1/4" bugle head screws @ 6" o.c.

**Master Wall Base Coat & Ultra Mesh**

**Rollershield (optional)**

**Master Wall Adhesive**

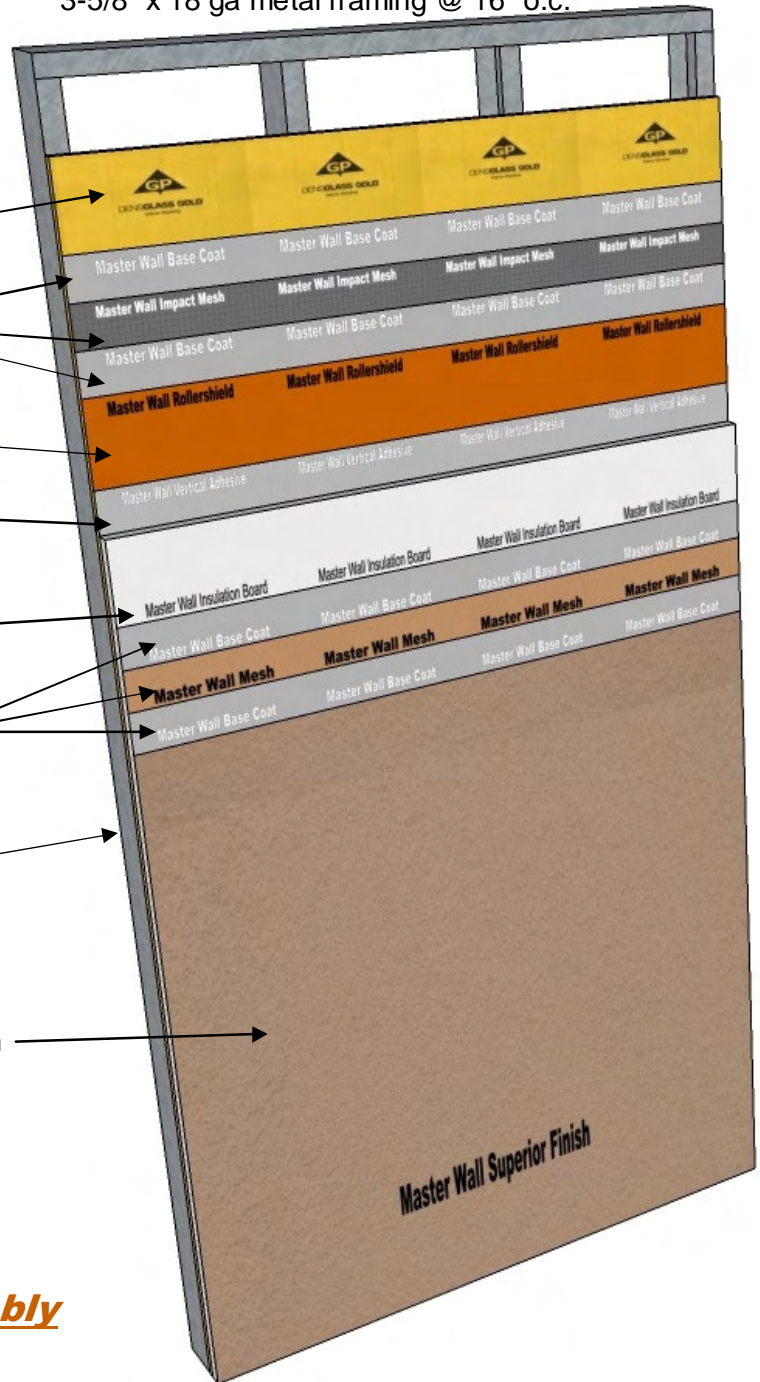
**Aggre-flex Insulation**

**Master Wall Base Coat & Standard Mesh**

20 ga x 2" strapping @ midsection on open framing

**Superior Finish**

Design Pressure +/- 75psf  
Large & Small Missile Impact Rated



### **H75F5 Hurricane Assembly**

These drawings relay the conceptual conditions of Master Wall<sup>®</sup> Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall<sup>®</sup> Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold = Master Wall<sup>®</sup> Product.**



We finish strong.

## System Detail

**MIAMI-DADE COUNTY**  
**APPROVED**

Dade NOA No. 21-0414.02  
Expires 8/4/2026

3-5/8" x 18 ga metal framing @ 16" o.c.

1/2" Sheathing fastened with #6 x 1-1/4" bugle head screws @ 6" o.c.

**Rollershield (optional)**

**Master Wall Adhesive**

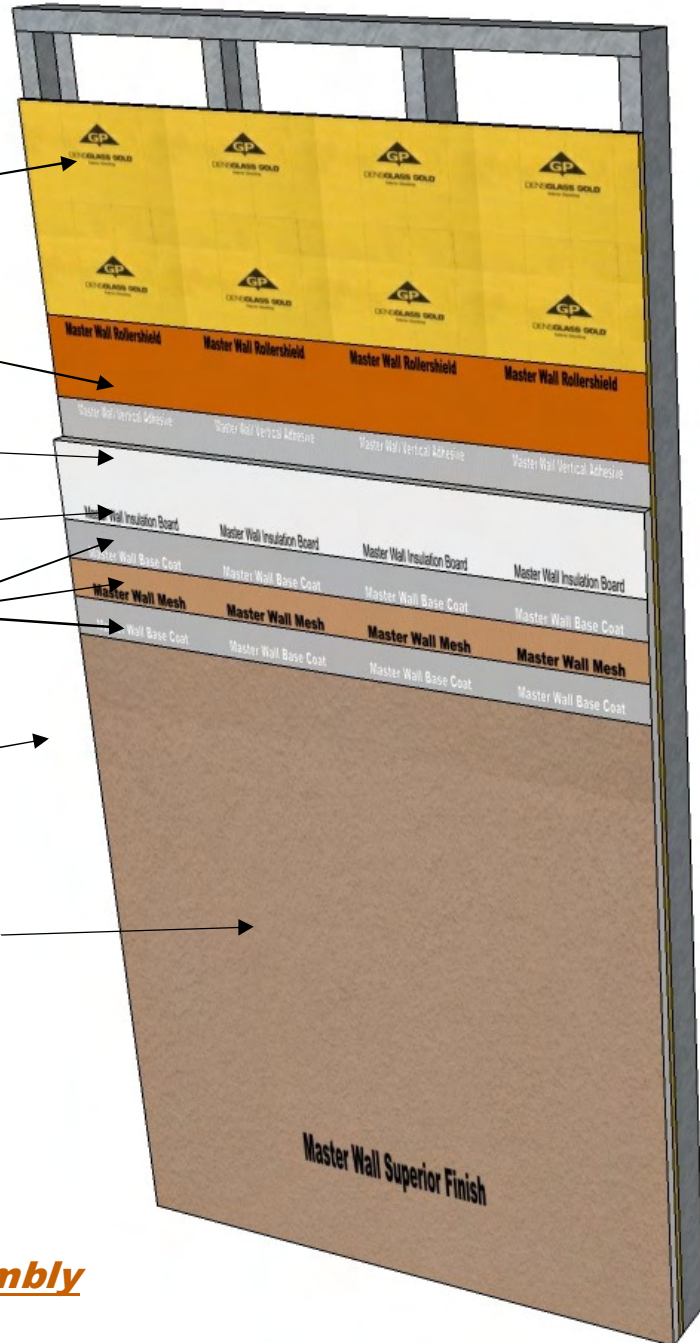
**Aggre-flex Insulation**

**Master Wall Base Coat & Standard Mesh**

20 ga x 2" strapping @ midsection on open framing

**Superior Finish**

Design Pressure +/- 75psf  
Small Missile Impact Rated



### **H75F6 Hurricane Assembly**

These drawings relay the conceptual conditions of Master Wall<sup>®</sup> Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall<sup>®</sup> Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold = Master Wall<sup>®</sup> Product.**

©2019 Master Wall Inc.<sup>®</sup>



## System Detail

1626.4 Construction assemblies deemed to comply with Section 1626.

1. Exterior concrete masonry walls of minimum nominal 8-inch (203 mm) thickness, constructed in accordance with Chapter 21 (High-Velocity Hurricane Zones) of this code.

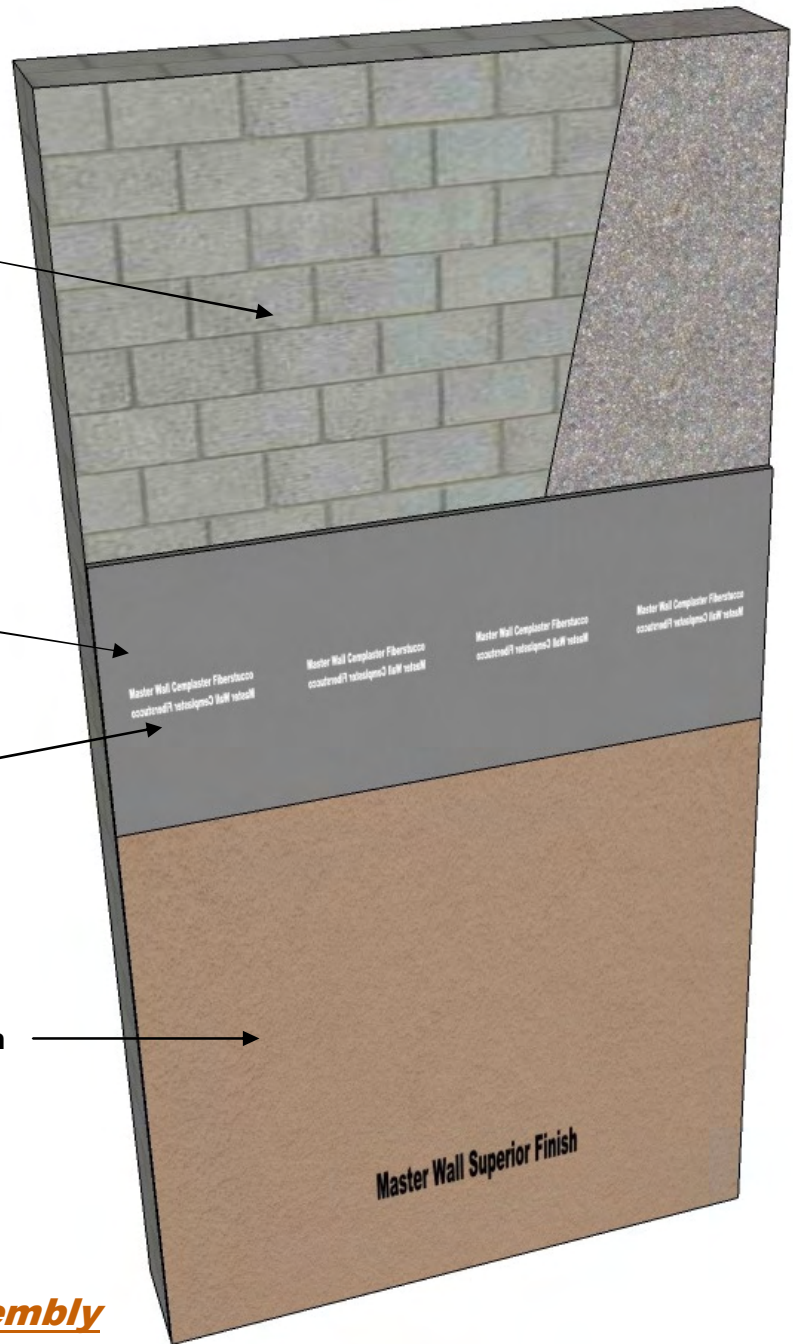
4. Exterior reinforced concrete elements constructed of solid normal weight concrete (no voids), designed in accordance with Chapter 19 (High-Velocity Hurricane Zones) of this code and having a minimum 2 inches (51mm) thickness

**5/8" Cemplaster Fiberstucco  
 (warranted, shown)**

5/8" Stucco, no warranty  
 (optional)

**Superior Finish**

Deemed Large & Small Missile Impact Compliant per FBC 2017 (6th Edition) Section 1626.4.1 and 4



### **H00C2 Hurricane Assembly**

These drawings relay the conceptual conditions of Master Wall® Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall® Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold = Master Wall® Product.**

## System Detail

1626.4 Construction assemblies deemed to comply with Section 1626.

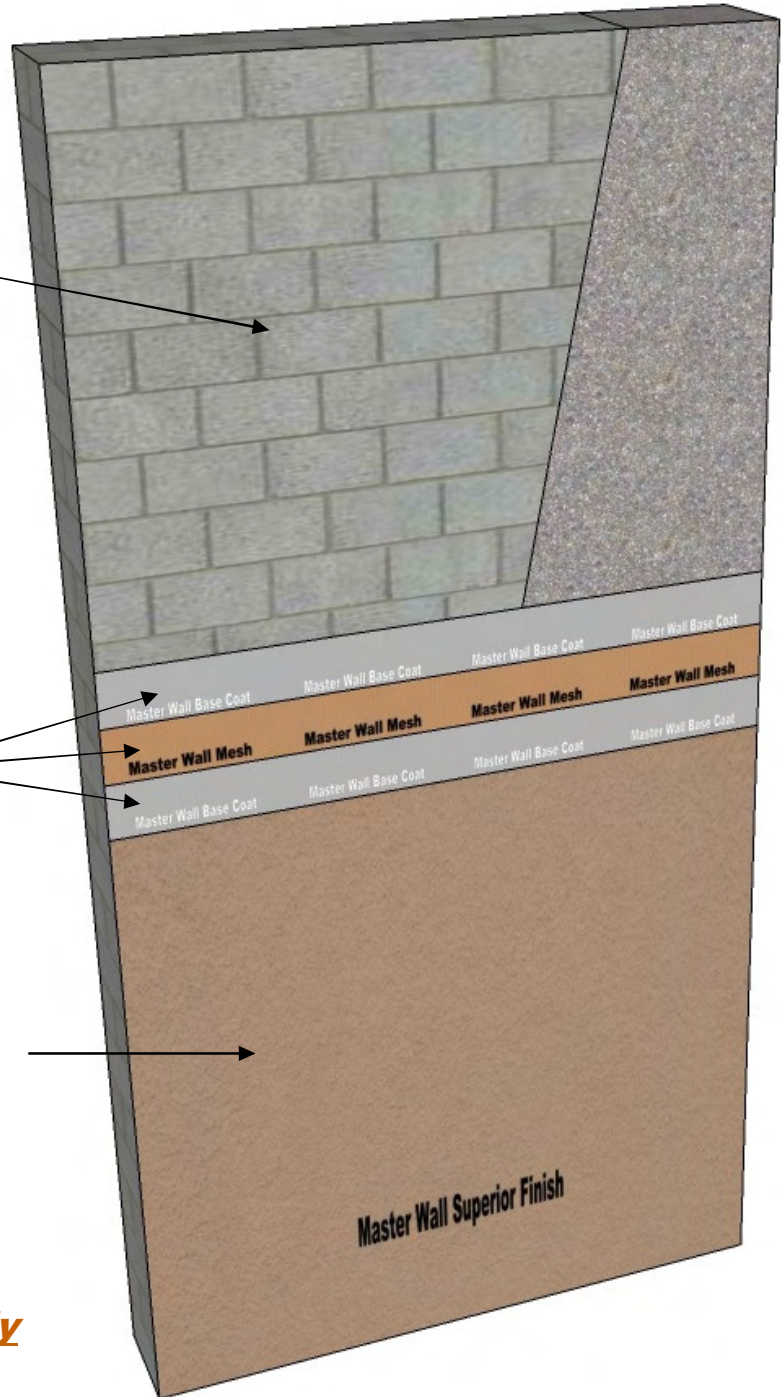
1. Exterior concrete masonry walls of minimum nominal 8-inch (203 mm) thickness, constructed in accordance with Chapter 21 (High-Velocity Hurricane Zones) of this code.

4. Exterior reinforced concrete elements constructed of solid normal weight concrete (no voids), designed in accordance with Chapter 19 (High-Velocity Hurricane Zones) of this code and having a minimum 2 inches (51mm) thickness

**Master Wall Base Coat & Optional Standard Mesh**

**Superior Finish**

Deemed Large & Small Missile Impact Compliant per FBC 2017 (6th Edition) Section 1626.4.1 and 4



### **H00C4 Hurricane Assembly**

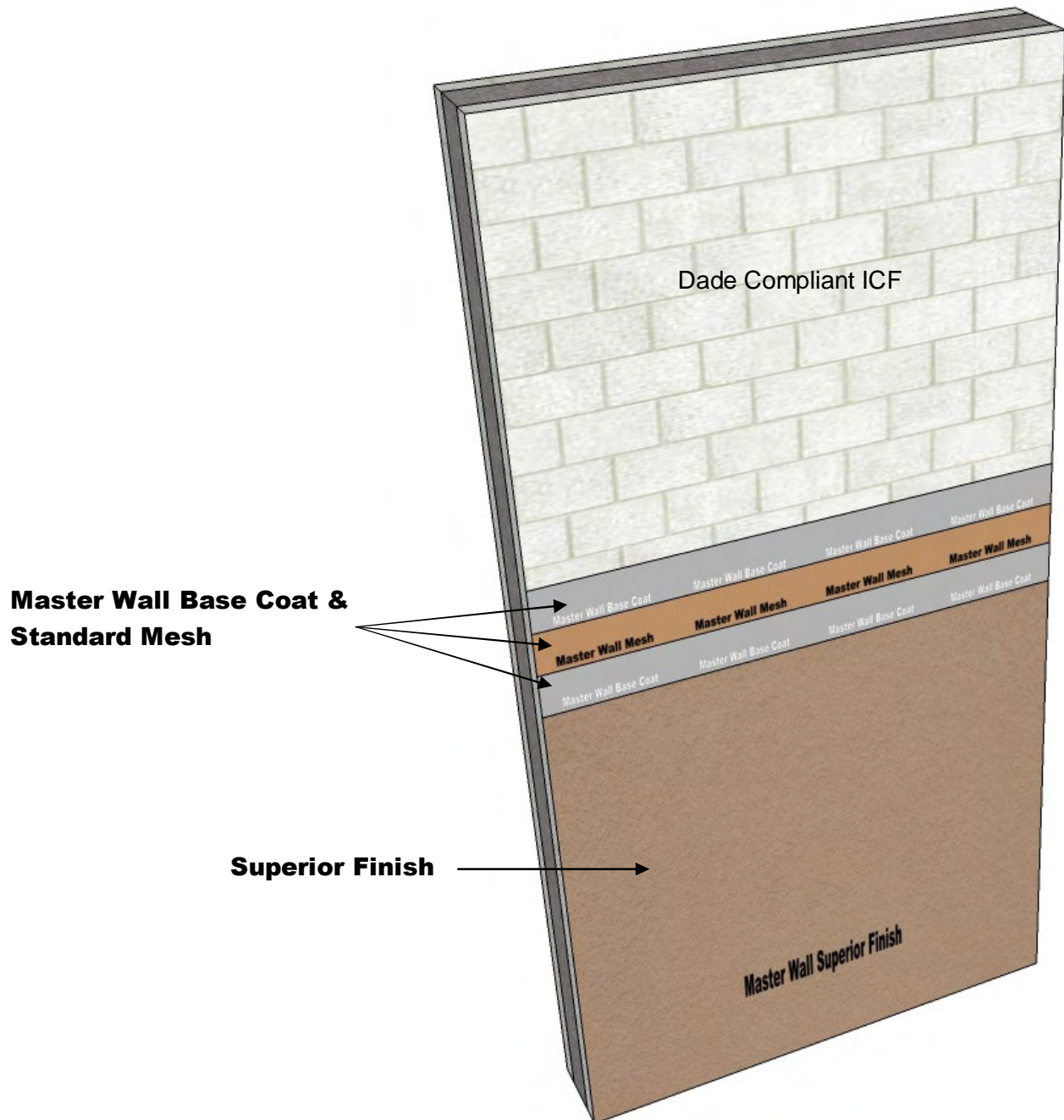
These drawings relay the conceptual conditions of Master Wall<sup>®</sup> Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall<sup>®</sup> Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold = Master Wall<sup>®</sup> Product.**



**Master Wall Inc.**  
*Building a Culture of Excellence*



## System Detail



### ***H00C5 Hurricane Assembly***

These drawings relay the conceptual conditions of Master Wall® Systems and are not the construction drawings. Ultimately the design and detailing of an entire wall system is the responsibility of a professional. These details will guide the design professional in the use of Master Wall® Products. Master Wall disclaims design, warranty or construction intent or responsibility. **Bold = Master Wall® Product.**

©2019 Master Wall Inc.®