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	and Typical Elevation.
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# **NOTES**

This Product is a Vinyl Tilt-Turn Window, Dry-Glazed with Steel Reinforcement and Laminated Insulated Glazing.

This Product Has Been Designed and Manufactured to Comply with the Requirements of the Florida Building Code, including the High Velocity Hurricane Zone (HVHZ).

This Product Meets the Requirements for Large Missile Impact Resistance up to the **Design Pressures Specified Herein:** Hurricane Shutters Are Not Required.

This Approval Applies to Single or Double Units, or Combinations of Units Installed Either Side of Product-Approved Mullions Meeting the Site-Specific Design Pressure Requirements. Such Mullions Shall be Subject to the Limitations of their Specific Product Approval Documents.

Wood Buck Design by Others: Wood Bucks Shall Adequately Transfer Imposed Loads to the Surrounding Structure.

A Load Duration Increase in Allowable Stress (Cd=1.33) Has Been Used in the Design of Anchors into Wood Only.

Anchors Shall be As Listed, As Shown on Details Herein. Anchor Embedment into Base Substrate Shall be Beyond Wall

Dressing or Stucco. Anchor Conditions Not Described Herein are Not Part of This Approval Document, and Shall Require a Site Specific Design Signed and Sealed by A Florida-Registered Professional Engineer.

Dissimilar Metals that Contact One Another Shall be Painted, Plated, or Otherwise Galvanically Isolated in Accordance with the Florida Building Code.

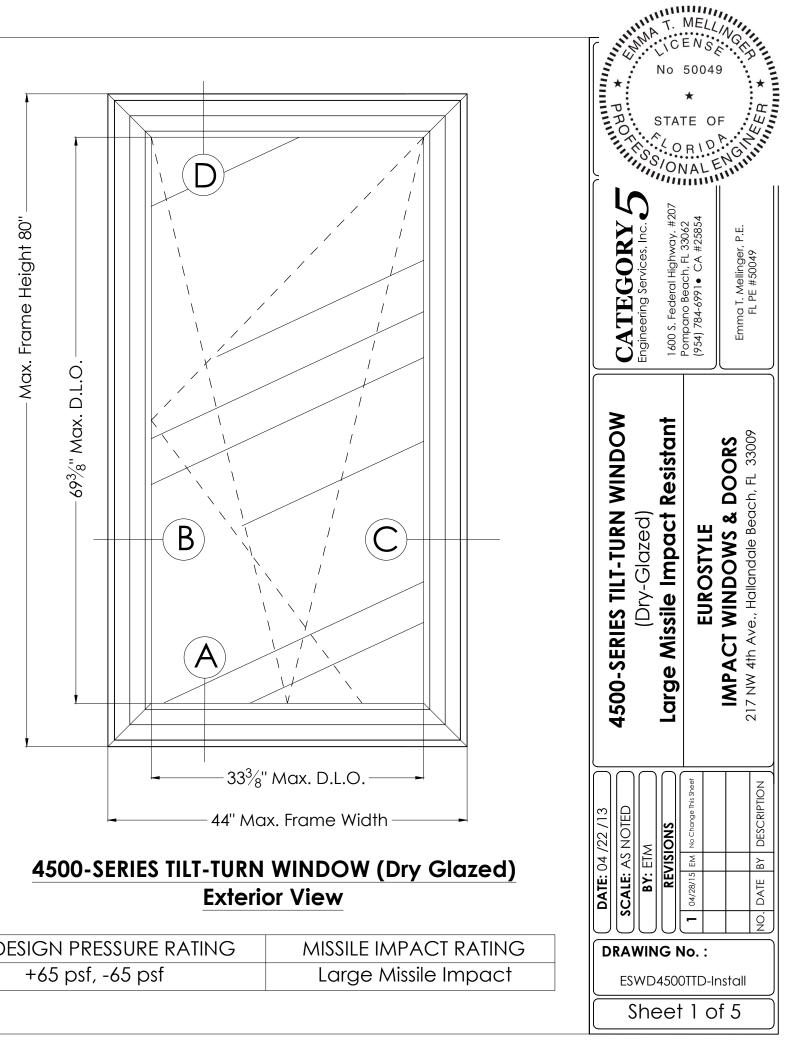
It Shall be the Responsibility of the Contractor, Engineer of Record, or End User to Determine that the Host Structure is Capable of Supporting the Loads Imposed Upon it, including Wind Loads, and the Suitability of this Product for the Specific Project.

Maximum Frame Size: 44" x 80" Maximum Daylight Opening:  $33\frac{3}{8}$ " x 69 $\frac{3}{8}$ ".

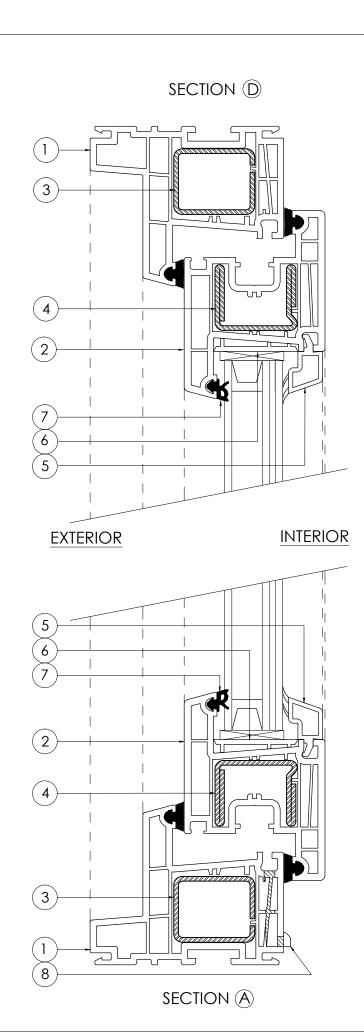
### MATERIALS

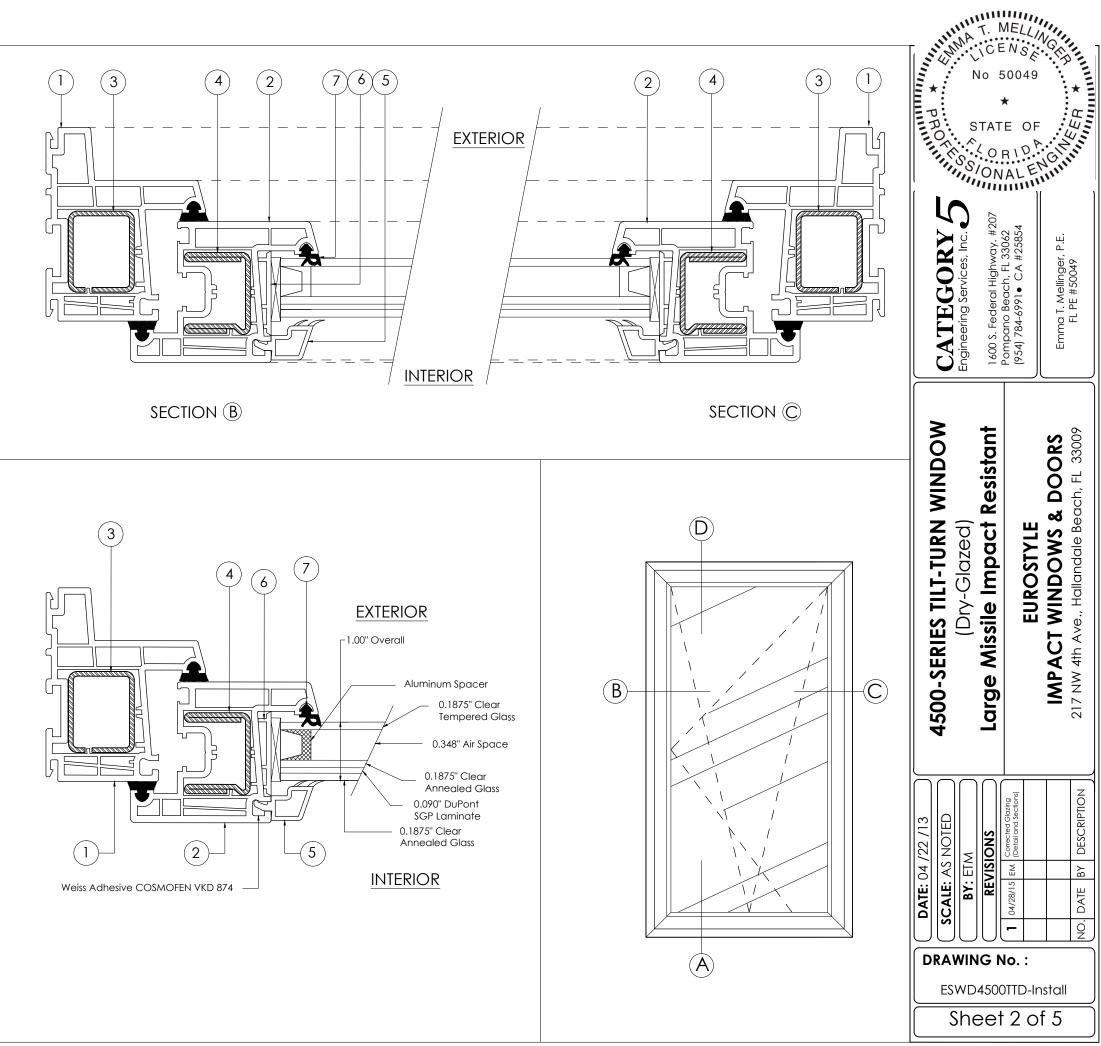
Rigid PVC Extrusions Manufactured by Rehau, Inc. Hold a Current Miami-Dade County NOA

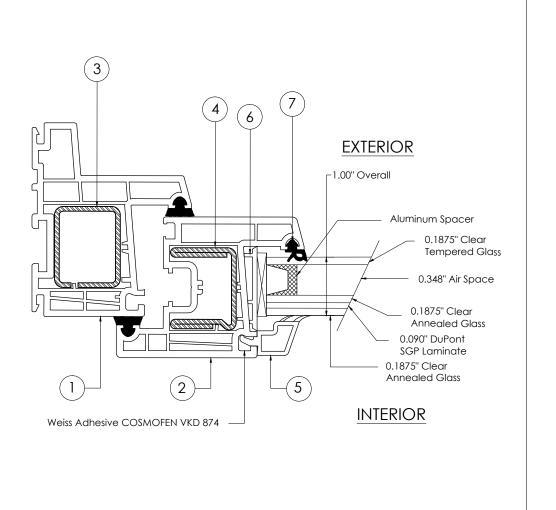
Glazing Interlayer, Manufactured by E.I DuPont De Nemours, & Co. Holds a Current Miami-Dade County NOA

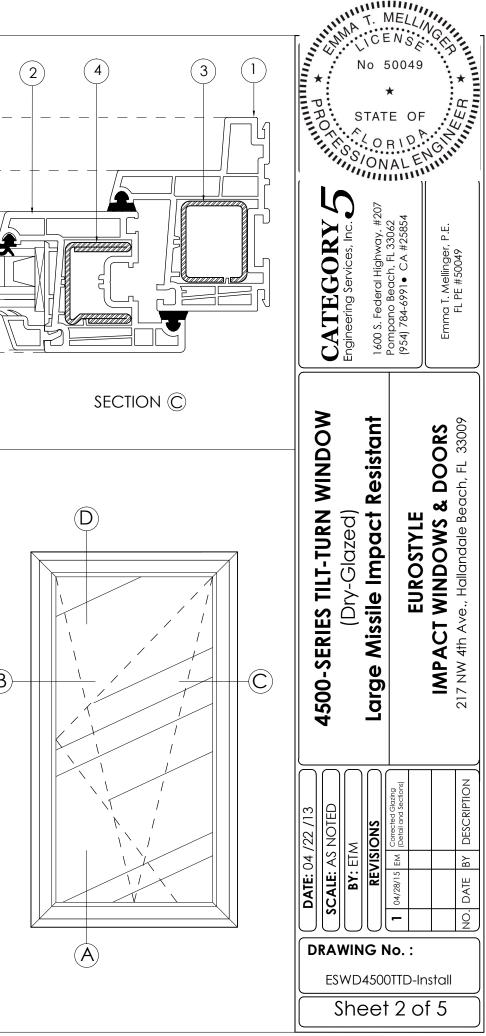


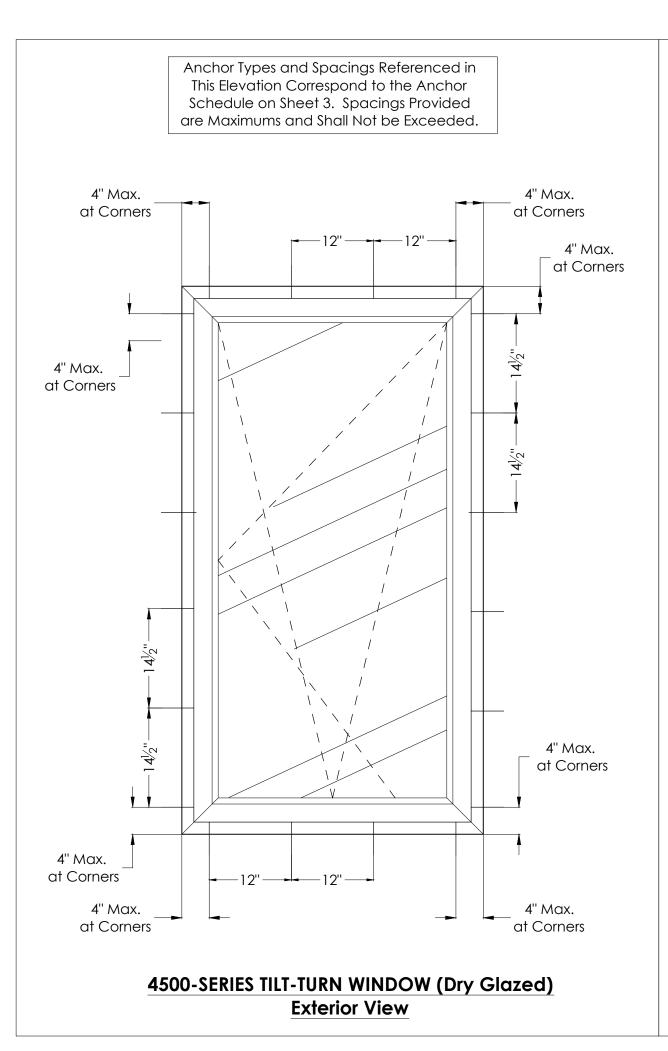
DESIGN PRESSURE RATING	MISSILE IM
+65 psf, -65 psf	Large M











### **INSTALLATION NOTES**

- Anchors Shall be of a Type Listed on This Sheet, Depending on the Substrate.
- Manufacturer's Vinyl Block Shall be Secured with Caulking at Each Anchor Location So That the Fastener Penetrates the Block, and No Portion of the Fastener is Exposed or Unsupported.
- Anchors Shall be Located a Maximum of 3" From Corners.
- The Balance of Anchors at the Head and Sill and Side Jambs Shall be Spaced at a Maximum of 14" o/c.
- Wood Bucks Shall Fully Back the Window Frame, Supporting its Entire Depth.
- A 1" x Wood Buck Shall be a Wood Buck Having a Thickness of Less Than  $1\frac{1}{2}$ ". 1" x Wood Bucks Shall be Optional if the Window Can be installed Directly to the Substrate.
- The Installation of 2" x Wood Bucks Shall be Engineered by Others, as Approved by the Authority Having Jurisdiction.
- A Structural Shim Shall be Used at Each Anchor Location Where a Gap of  $\frac{1}{8}$ -inch or More Exists Between the Window Frame and the Substrate. Such Shims Shall Extend the Entire Depth of the Frame, and be No More than  $\frac{1}{4}$ -inch

in Thickness, Unless Otherwise Specified.

 Anchor Embedments and Edge Substrate.

### ANCHORS SHALL BE OF THE FOLLOWING **TYPES:**

- Approved  $\frac{1}{4}$ " ELCO Ultracons of  $1^{3}$ /" Embedment.
- **TYPE II:** For Installation into CMU to Achieve at Least  $1\frac{1}{4}$ " Embedment.
- TYPE III: For Installation into Wood **Substrates**, Use #12 Self-Drilling Screws (Hilti Kwik-Flex or Eq.), of  $1\frac{1}{2}$ " Embedment.
- **TYPE IV:** For Installation into **Metal** No Shim Space is Permitted.

Distances Indicated Shall be Beyond Wall Dressing or Stucco, into Structural

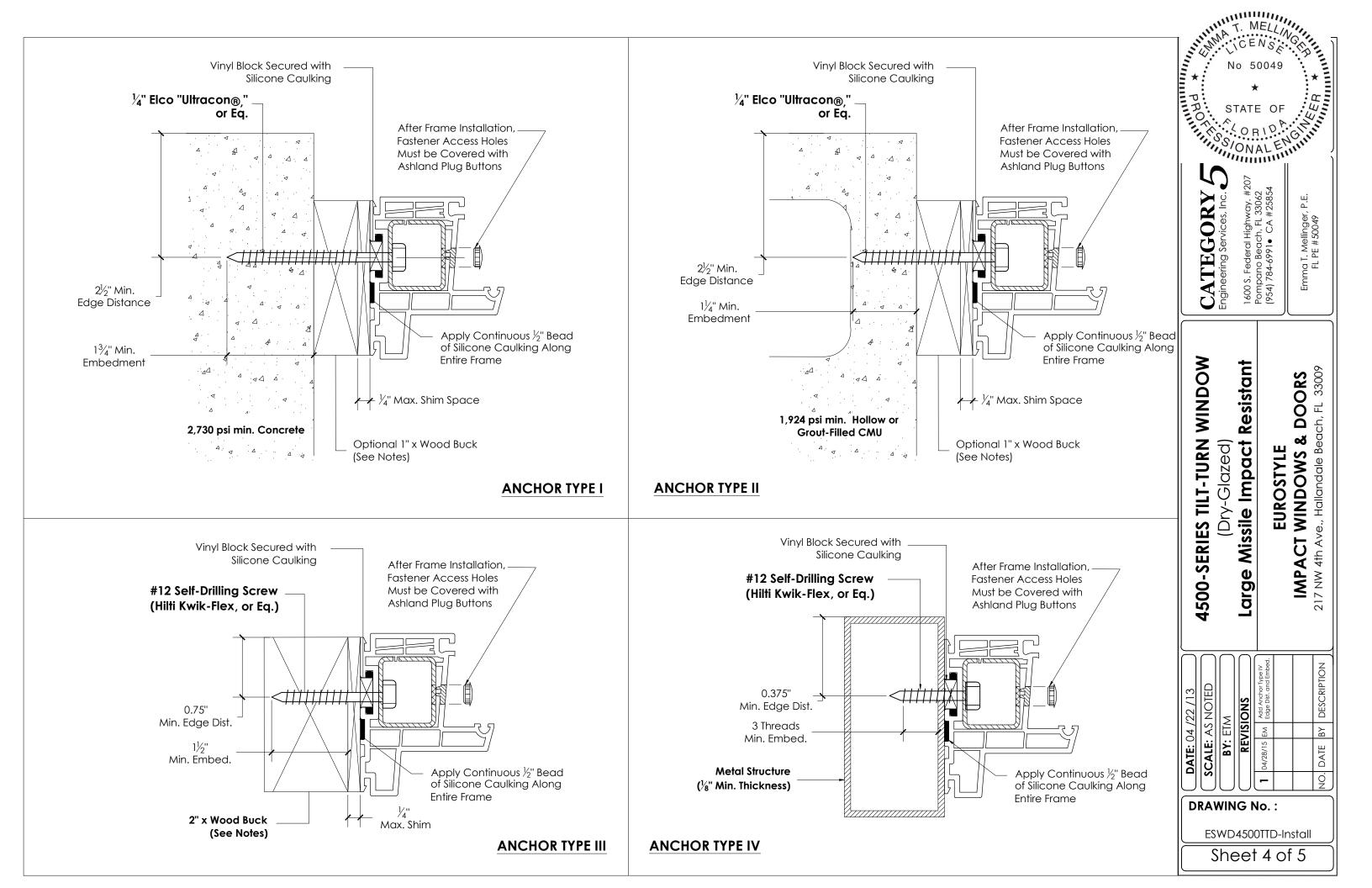
• TYPE I: For Installation into Concrete **Substrates** (fc min. = 2730 psi), Use Sufficient Length to Achieve at Least

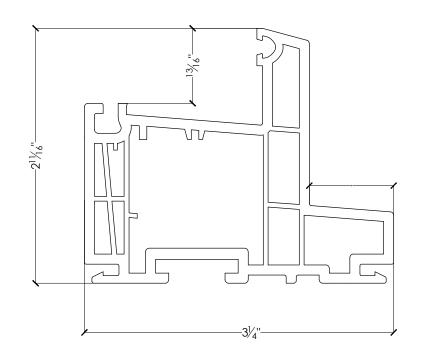
Substrates (Hollow or Grout-Filled; fc min. = 1924 psi), Use Approved  $\frac{1}{4}$ " ELCO Ultracons of Sufficient Length

Sufficient Length to Achieve at Least

**Substrates**, at Least  $\frac{1}{8}$ " Thick, Use #12 Self-Drilling Screws (Hilti Kwik-Flex or Eq.), of Sufficient Length to Achieve a Minimum Penetration through the Metal of Three Full Thread Pitches.



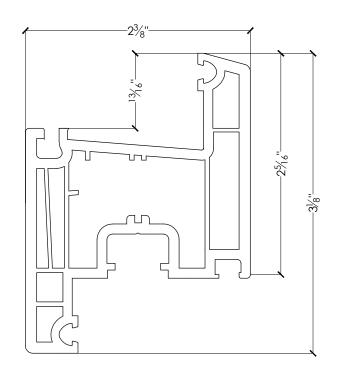




4500-Series Frame 1

## **Bill of Materials**

ltem#	Part #	Description	Material
1	601205	Frame	Vinyl
2	554051	Sash	Vinyl
3	237091	Reinforcement - Frame	Galv. Steel
4	244536	Reinforcement - Sash	Galv. Steel
5	560600	Glazing Stop	Vinyl
6	268651	Shim Support	Vinyl
7	864952	Glazing Gasket	EPDM
8	261528	Drain Cover Caps	Vinyl
9	-	Roto T&T Harware	Steel
10	13856	Plug Buttons	Vinyl



4500-Series Sash

(2)

