



Reliance™ Unit Wall— thermal composite structural tape glazed unitized curtain wall system by Oldcastle BuildingEnvelope®

The Reliance™ Unit Wall from Oldcastle BuildingEnvelope® is a factory assembled, sealed and glazed curtain wall product offering both Captured and Non-captured selections with a variety of 1" infill options. The rain screen design features two lines of defense for superior air and water resistance. The Reliance™ Unit Wall with reinforced polyamide thermal struts provides exceptional thermal performance. One of the most outstanding benefits of Reliance™ Unit Wall is the assembly and glazing of the curtain wall frames under factory controlled conditions. This reduces field labor and minimizes reliance on site applied seals. The system is also designed to be installed from inside the building which is an easier installation and eliminates the need for staging equipment.

Features



701 Ballpark Square
Location: Washington, D.C.
Architect: Hickok Cole Architects

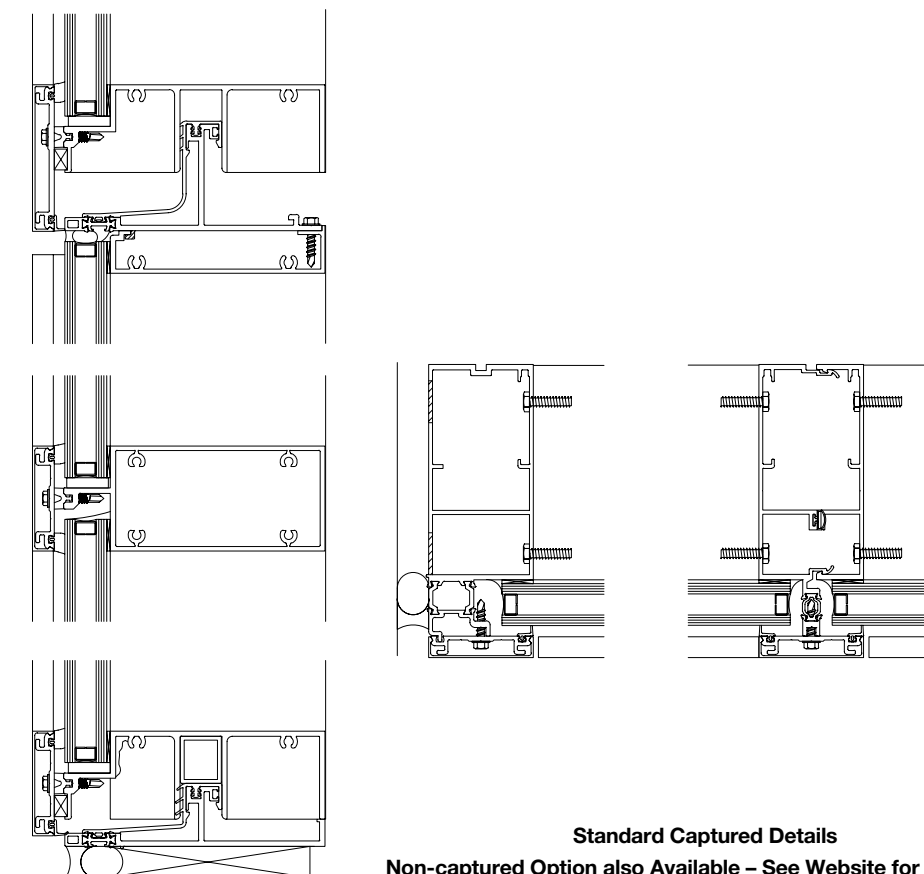
- Overall system dimensions:
 - Captured: 2 1/2" (63.5mm) x 7" (177.8mm)
 - 2 1/2" (63.5mm) x 8" (203.2mm)
 - Non-Captured: 2 1/2" (63.5mm) x 6 1/4" (158.75mm)
 - 2 1/2" (63.5mm) x 7 1/4" (184.15mm)
- Tested up to +/- 1/2" vertical movement per floor
- Factory assembled, sealed and glazed
- Installed from floor slab; staging not required
- Reduced field labor
- Enhanced thermal performance with reinforced polyamide struts
- Shadow box spandrel panel option
- Full rain screen design
- Standardized detailing and components
- Dual finish capability
- Accepts steel reinforcing for various structural requirements
- Accommodates operable vents for both Captured and Non-captured system options
- Factory painted Kynar 500®/Hylar 5000® finishes, meeting all provisions of AAMA 2605
- Factory anodized finishing



Oldcastle BuildingEnvelope®

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Details



Standard Captured Details

Non-captured Option also Available – See Website for All Details

Performance

<ul style="list-style-type: none"> ▪ Air Infiltration: <.06 CFM/SQ FT @ 6.24 PSF per ASTM E283 	<ul style="list-style-type: none"> ▪ OITC per ASTM E90: <ul style="list-style-type: none"> 30 Captured w/laminated glass 28 Captured w/clear glass 30 Non-captured w/laminated glass 28 Non-captured w/clear glass
<ul style="list-style-type: none"> ▪ Static Water: 15 PSF per ASTM E331 	
<ul style="list-style-type: none"> ▪ Dynamic Water: 15 PSF per AAMA 501.1 	
<ul style="list-style-type: none"> ▪ Deflection Load: 40 PSF per ASTM E330 	<ul style="list-style-type: none"> ▪ Thermal Cycling per AAMA 501.5: 3 cycles (180° hot cycle, 0°F cold cycle)
<ul style="list-style-type: none"> ▪ Structural Load: 60 PSF per ASTM E330 	<ul style="list-style-type: none"> ▪ Thermal Performance per AAMA 1503 using Low-E 1" insulating glass: <ul style="list-style-type: none"> U-factor: 0.36 Captured 0.34 Non-captured CRF Frame: 72 Captured 74 Non-captured
<ul style="list-style-type: none"> ▪ Tie Back Test Design Load: 150 lbs & 600 lbs @ 6.24 PSF 	
<ul style="list-style-type: none"> ▪ Seismic: Four levels of deflection per AAMA 501.4 	
<ul style="list-style-type: none"> ▪ STC per ASTM E90: <ul style="list-style-type: none"> 37 Captured w/laminated glass 34 Captured w/clear glass 38 Non-captured w/laminated glass 34 Non-captured w/clear glass 	<ul style="list-style-type: none"> ▪ NFRC Certified & Thermal Performance Characteristics per AAMA 507

