Blast & Hurricane Building Envelope products that meet the most stringent building standards

# blast & hurricane



tested to meet the most

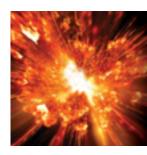
stringent codes for high

velocity hurricane zones.

# Our blast- and hurricane-resistant products meet or exceed all codes.

Oldcastle BuildingEnvelope® incorporates the latest advances and technologies to meet your expectations for high performance. Applying best practices for integrated systems designed for specific requirements, our products are engineered and tested to withstand blast and hurricane events. With the largest national footprint of any building envelope company in North America, we offer some of the best engineering minds in the industry for you to rely on, as well as the experience and knowledge to handle the most complex projects—every step of the way. In addition to our expertise

in providing blast mitigation and hurricane-resistant products, we offer the most comprehensive portfolio of products and services specified to close the building envelope. Our products include custom-engineered curtain wall and window wall, architectural windows, storefront systems, doors, skylights and architectural glass.



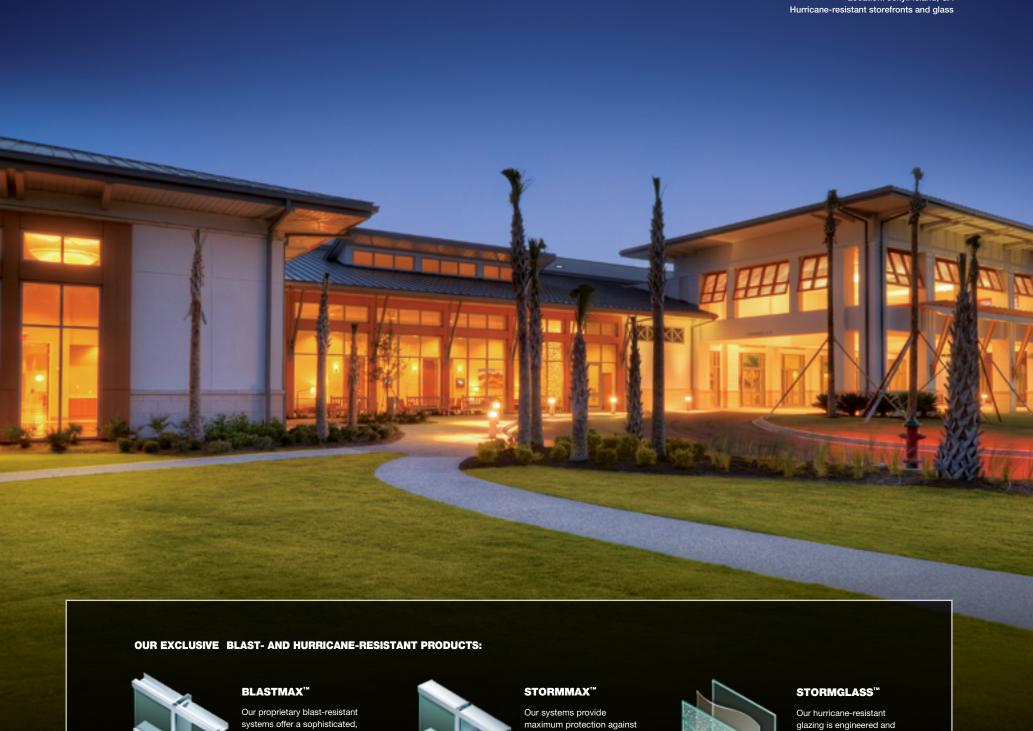
**BLAST-RESISTANT** 

Our exclusive blast mitigation systems are engineered to withstand blast events.



#### HURRICANE-RESISTANT

Our heavy-duty systems are engineered and tested for hurricane resistance.



wind-borne debris and cyclic

our exclusive StormGlass™

hurricane-resistant systems

glazing, our heavy-duty

code requirements

wind pressure. Engineered with

patented energy-absorbing system

approach. This technology utilizes

hardware and anchoring system as

All of our BlastMax<sup>™</sup> products meet or exceed GSA and DoD codes.

the curtain wall frames, glazing,

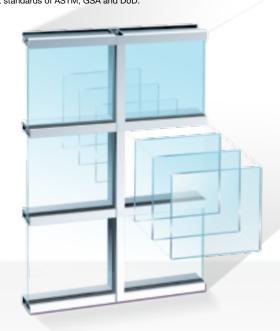
energy dissipating components.

# BlastMax® Reliance® Curtain Wall @ Fort Belvoir

The largest American Army base specified our blast-resistant building envelope. The Fort Belvoir Community Hospital is a 1.27-million-sq-ft facility. Oldcastle BuildingEnvelope® provided BlastMax™ Reliance™ Series curtain wall designed to meet blast resistance requirements. BlastMax™ utilizes a tough plastic interlayer that holds the glass together after a blast event, and with the proper framing systems, the glazing will be retained in the opening, reducing the amount of flying glass.

#### BLASTMAX™ RELIANCE™ SERIES

This blast-resistant curtain wall system is designed to meet the most current and demanding test standards of ASTM, GSA and DoD.





# StormMax<sup>™</sup> @ La Palmera Mall

This 1,017,704-sq-ft shopping mall serving a wide region surrounding Corpus Christi,

Texas, is the result of a \$50 million renovation.

Oldcastle BuildingEnvelope® was selected to provide a full range of impact-resistant products that met the most demanding building code requirements.

Hurricane Ike (2008) did not seriously jeopardize the integrity of the shopping mall's early construction work. Special attention was given to integrate various construction features that offer protection to withstand the impact of future storms in this area.

# STORMMAX™ ENTRANCE AND CURTAIN WALL

Our products meet or exceed all building code requirements.







BLAST-RESISTANT

### We offer the most comprehensive collection of blast-resistant curtain wall, window wall, architectural windows, storefronts, entrances, skylights and architectural glass. So what makes our products unique? For starters, we design, engineer, test and manufacture our products as a fully integrated building envelope system. In addition, we have invested significantly in designing our complete line of systems and testing them to meet the specific threat levels and requirements detailed under ASTM, DoD and GSA standards. Gone are the days of coordinating multiple suppliers to obtain all the products needed for a specific project. We are The Building Envelope Company<sup>™</sup>.



hurricane protection is required by code. Whether it's a curtain

wall, window wall, architectural window, storefront, entrance,

hurricanes, we have not relented in developing and testing

the latest and most innovative systems that meet the specific

requirements of the ASTM and TAS standards. Our systems

have been tested by and have obtained product approvals from

such entities as the Florida Building Commission and Miami-Dade

County, and they have been evaluated by the Texas Department

of Insurance. You have the peace of mind knowing our products

will meet your project's specific requirements. We are The Building

skylight or architectural glass product, we have you covered. After

many years of designing innovative systems capable of withstanding



All of our hurricane-resistant products meet or exceed TDI, ASTM and Miami-Dade County requirements.

**RESISTANT PRODUCTS MEET** 

**OR EXCEED** 

**ALL CODES** 







#### **OUR BLAST-RESISTANT** PRODUCTS MEET THE **MOST STRINGENT BUILDING CODES**

All of our blast-resistant products meet or exceed DoD, ASTM and GSA code requirements



#### **ONE WARRANTY**

**WE LISTEN AND ASSESS** THREAT LEVELS

When the U.S. Army called on us to engineer blast-resistant storefronts, windows, entrances and curtain walls, we analyzed their unique requirements and engineered a

custom solution

Why juggle multiple you can have just one? With Oldcastle BuildingEnvelope®, you have clarity, assurance and peace of mind.

### **ENGINEERED AND HURRICANE IMPACTS**

Envelope Company<sup>™</sup>.

All of our hurricane-resistant products are engineered, tested and manufactured to



# **TESTED TO WITHSTAND**

meet or exceed all hurricane and

#### AN INTEGRATED APPROACH

Our approach is one of integration: integrated products, processes and stakeholders. The American Institute of Architects calls it Integrated Project Delivery (IPD). It's an approach that focuses on increased collaboration among all parties involved in a building's construction. We approach each project the same way.



#### **WE EMPLOY LEADING-EDGE TESTING**

We continually conduct extensive blast arena tests to ensure that our systems will exceed all required standards.









LaPalmera MO Courthouse

# We are everywhere

From Tampa to Tahoe, our blast- and hurricane-resistant products grace some of America's most discerning buildings. Our extensive industry experience includes hospitality, retail, education, government, healthcare, military, museums, airports and more.





Fort Belvoir

San Francisco International Airport



# **Blast-Resistant**



#### BLAST MITIGATION: BLASTMAX™ RELIANCE™ CURTAIN WALL

Blast arena tested with standard Reliance™
Curtain Wall profiles offer significant levels
of blast protection with the economies of a
standard system. Our blast mitigation systems
are unique in that the curtain wall and the
glass are engineered and tested together
as one system.

#### Performance

ASTM: F-1642 – minimal hazard
UFC (DoD) 4-010-01

medium level of protection

GSA / ISC – condition 3b

#### BLAST MITIGATION: BLASTMAX™ FG-5100/FG-5100T STOREFRONTS

BlastMax™ FG-5100 is a heavy-duty, flush-glazed storefront that offers very high levels of blast protection. This system can offer both blast and hurricane protection. Our blast mitigation system is unique in that the curtain wall and the glass are engineered and tested together as one system.

#### Performance

**ASTM:** F-1642 – no hazard

UFC (DoD) 4-010-01 high level of protection

**GSA / ISC** – condition 2

#### **BLAST MITIGATION: BLASTMAX™ BRW-500 RIBBON WINDOW**

After extensive blast arena testing, the BRW-500 ribbon window system has proven to be a high-performance system that meets the most stringent standards of ASTM, GSA and UFC.

#### Performance

ASTM: F-1642 – no hazard

UFC (DoD) 4-010-01 medium level of protection

GSA / ISC - condition 2

#### **BLAST MITIGATION: BLASTMAX™ MSD-375 ENTRANCES**

After extensive blast arena testing, the MSD-375 Blast-Resistant Entrance Door system has proven to be a high-performance system that meets the most stringent standards of ASTM, GSA and UFC. The MSD-375 Blast-Resistant Entrance Door System performs exceptionally well without the need for reinforced steel or special anchoring.

#### **Performance**

**ASTM:** F-1642 – no hazard

UFC (DoD) 4-010-0 medium level of protection

**GSA / ISC** – condition 2

### **Hurricane-Resistant**



#### HURRICANE-RESISTANT: STORMMAX™ RELIANCE™ CURTAIN WALL

The StormMax<sup>™</sup> Reliance<sup>™</sup> Curtain Wall System was designed to meet the most demanding specifications. This system complies with the requirements of the Florida and International Building Codes. It is an exterior glazed system that can also be glazed with our exclusive StormGlass<sup>™</sup> hurricane-resistant glass.

#### **Performance**

**ASTM:** E-1886, E-1996

Florida Building Code: TAS 201, 202, 203

IBC 2006

Miami-Dade County Product Approval

#### HURRICANE-RESISTANT: STORMMAX™ HR-250/HR-251 CURTAIN WALL

HR-250/HR-251 StormMax™ curtain walls provide substantial hurricane protection with the use of both monolithic and insulating glass. They are available with both dry and wet glazing options.

#### Performance

**ASTM:** E-1886, E-1996

Florida Building Code: TAS 201, 202, 203

IBC 2006

Miami-Dade County Product Approval

#### **HURRICANE-RESISTANT: STORMMAX™ FG-5000/FG-5100/FG-5100T**

These heavy-duty, flush-glazed storefronts provide significant hurricane protection with the use of both monolithic and insulating glass. The FG-5000 system is available with both dry and wet glazing options. The FG-5100T system is available with wet glazing option only.

#### Performance

**ASTM:** E-1886, E-1996

Florida Building Code: TAS 201, 202, 203

IBC 2006

**Miami-Dade County Product Approval** 

#### HURRICANE-RESISTANT: STORMMAX™ MSD-375 ENTRANCES

The Series MSD-375 is an impact-resistant medium stile entrance door. This entrance system meets the most demanding requirements of both Florida and International building codes. The series MSD-375 offers the largest variety of hardware options in the industry.

#### Performance

**ASTM:** E-1886, E-1996

Florida Building Code: TAS 201, 202, 203

IBC 2006

Miami-Dade County Product Approval

# We offer the most comprehensive portfolio of products specified to close the building envelope.



**Thermal Products** 

Architectural Windows

Architectural Glass Entrances and Storefronts

Skylights



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