

## FLOOD RESISTANT DOORS & FRAMES

***Flooding has increased in frequency and intensity in this millenium. Proactive solutions are available from AMBICO.***

- AMBICO flood resistant door and frame assemblies withstand hydrostatic pressure and include robust seal systems capable of minimizing water leakage. Assemblies are supplied in galvanized steel or stainless steel which offers extended life in corrosive environments
- Custom engineered solutions are available for debris impact resistance based on project specific requirements
- Common applications include exterior outswing doors where water seats the door into the frame. Solutions are also available for unseated applications
- Assemblies include customized anchor solutions to ensure the integrity of the frame installation
- Solutions are available that include 4-sided frames or ADA-compliant bumper or saddle thresholds
- In applications where doors are seated into the frame, standard builder's hardware can be used. Where doors are unseated, special hinges and latching hardware will be supplied by AMBICO

## TORNADO RESISTANT DOORS & FRAMES

***States within tornado alley have adopted building codes that demand the use of tornado products. AMBICO door and frame assemblies have been tested to resist tornadoes and provide proven life-safety protection.***

- In the U.S., tornadoes are the most destructive windstorm and are responsible for the greatest number of wind related deaths annually. Insurance claims losses from a single tornadic event of \$1 billion and greater are becoming more frequent

# RESILIENT DESIGN IN DOORS, FRAMES & WINDOWS



*Extensive flooding from Tropical Storm Harvey in southeast Texas on Aug. 31, 2017. Air National Guard*



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- FEMA P-361 is a national standard currently supported by the USA Department of Homeland Security. *FEMA P-361 Design and Construction Guidance for Community Safe Rooms* provides criteria for the construction of these rooms offering life-safety protection from tornadoes
- AMBICO tornado openings are tested to FEMA P-361/ICC-500 for wind load resistance and debris impact

## **BLAST RESISTANT DOORS, FRAMES & WINDOWS**

*While the threat of terrorism exists in today's world in many capacities, AMBICO offers blast resistant solutions as part of our resilient design portfolio.*

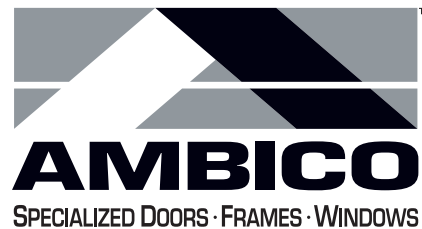
- AMBICO blast resistant door and frame assemblies meet ATEP, petrochemical and industrial applications, with testing in accordance with ASTM F2927 and F1642. Products are engineered to meet the most demanding blast requirements with the lightest construction possible
- AMBICO works with industry leaders BakerRisk, ABS Consulting and the University of Ottawa to conduct tests on our blast resistant assemblies. Additionally, AMBICO has conducted many static pressure tests, all witnessed by Intertek Testing Services
- Where project requirements are outside the scope of tests, our engineering department has years of experience performing blast door and frame analysis providing cost effective solutions

## **BULLET RESISTANT DOORS, FRAMES & WINDOWS**

*With the threat of active shooter situations, AMBICO offers bullet resistant solutions to protect against this risk.*

- AMBICO bullet resistant doors and frames can be used for protection against a wide range of hand, rifle and military attack weapons. Applications include courthouses, banks, casinos, police stations, emergency rooms and government or military facilities

## **RESILIENT DESIGN IN DOORS, FRAMES & WINDOWS**



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- Available in steel or in wood, our independently tested products are certified to resist attack ranging from small arms handguns to military assault rifles
- A range of wood veneers is readily available. Our steel door and steel frame assemblies are kept in stock and are able to operate using conventional builders hardware