STANDARDS MATTER FOR FIRE-RATED GLAZING AND FRAMING IN THE MIDDLE EAST

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Why should U.S. test standards matter to you for fire-rated glazing and framing?

- Increasingly, more U.S.-based architects are involved in the design and consultation of building code, particularly for Middle East projects
- Adoption and enforcement of stricter International Building Codes increases in Gulf Coast Countries (GCCs) resulting in many specifications for fire-rated systems needing to meet U.S. test standards



How are the EN (Euro-Norm) and BSI (British Standard) test standards <u>similar</u> to U.S. standards?

- Similar to the EN and BSI standards, the U.S. standards subject glazing systems to a fire test with furnace temperatures of over 954°C. This tests:
 - The strength of the glass during a fire
 - Integrity of the system
 - Overall ability to work as a passive system during a fire (compartmentation)



How are the EN (Euro-Norm) and BSI (British Standard) test standards <u>similar</u> to U.S. standards?

- Similar to the EN and BSI standards, the U.S. standards also subject glazing systems to an impact safety test
 - Tests impact integrity of the glass to two different levels:
 - Category I-simulates the impact of a small child
 - Category II-simulates the impact of an adult



How are the EN and BSI test standards <u>different</u> than U.S. standards?

• U.S. standards also include the hose stream test



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The Hose Stream Test Explained

•Directly after the fire exposure test, the glass and frame are exposed to high-pressure water flow from a fire hose which can reach up to 30 psi

•Higher fire resistance ratings mean the longer amount of time the system maintains its integrity during the high-pressure water exposure

•The test is performed to expose glass to thermal shock (extreme heat from the fire and then deluged cold water from the hose stream)

•In addition to testing for thermal shock, the hose stream test also ensures the fire-rated materials maintain structural integrity in the event there is a fire

Which Technical Glass Product systems meet U.S. test standards?

 With an international client base, TGP understands their products must be held to critically high standards so all of our products meet the U.S. test standards

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