



STEEL FRAME

INFORMATION SHEET

OVERVIEW

Every Diamond door starts as a simple steel frame, carefully manufactured by our CWB certified welding team. We use HSS tubular steel to build a lightweight yet durable door that maximizes the strength of your door while minimizing the loads on your building.

We design each door according to the wind loads in your region, door size, and the weight of the exterior finishing.

The frame consists of vertical and horizontal members, as well as a triple internal truss system. This system adds extra strength and prevents deflection when the door is opened. The three trusses are placed inside the door to provide a polished exterior look. Finally, we finish each door with a high quality, two-part polyurethane paint, which offers a long lasting and durable finish.

With the exception of very large doors, we ship each door directly to your building site with the frame (and door components) fully assembled. This helps you save time and costs on installation.



TECHNICAL SPECS

Steel Type: ASTM A500

Grade: C

Wall Thickness: 0.083" - 0.250"

Finish: Polyurethane Paint

FREQUENTLY ASKED QUESTIONS

What wind loads can a Diamond door handle?

We design your door to handle the wind loads in your region. Our design, while in the closed position, is based on the 1/50 (the highest wind speed in a 50 year span). We do not recommend operating your door in high winds.

Can you customize the spacing between frame members?

Yes, we can customize the spacing of your door frame members. This is commonly done to accommodate custom exterior finishes, windows, or pedestrian doors. For more information, please talk to our sales team.

Do I need to assemble my door frame when it arrives?

With the exception of very large doors, no onsite frame assembly is required. We ship your door to your building site pre-wired and fully assembled for quick and easy installation.

