



Technical Data Sheet for HydraLink® Doors

TYPE OF DOOR: HydraLink®

A single panel structural door fabricated with wide flange beams, rectangular tube and built up members. The door system includes track columns and the required hydraulic operator system. The door is operated via a power unit comprising of a pump, motor, and reservoir, which forces hydraulic oil under pressure thru valves, hoses, and hard tubing, connected to a custom pair of hydraulic cylinders. The cylinders are connected to the door panel via the pivot assembly. The flow of the hydraulic fluid will determine if the cylinders are extending to open the door, or retracting to close the door.

DOOR INFORMATION

Maximum Width:	160 feet +
Maximum Height:	32 feet +
Door Weight:	Varies by requirements, average 6 pounds per square foot .
Power Supply:	U.L. compliant. 208-v -240 v 25 amps / 12VDC optional.
Steel Specifications:	ASTM 992 50 KSI. Varies – see drawings.
Opening Speed:	Adjustable.
Operating Temperatures:	-20° C/ +70° C
Hydraulic Cylinders:	3,000 PSI, welded design for additional safety.

FINISHES

Door Frame Assembly:	One Shop Coat Grey Primer.
AirSide Strut™:	Galvanized.
Hydraulic Cylinders:	Wet Coat AirSide Blue.
Power Unit:	Powder Coat AirSide Blue.

PANELS / TRIMS AND INSULATION

Sheathing Panels:	Customer to specify and supply. Panel elevations and required door trim details by AirSide.
Trims:	Customer to specify and supply.
Insulation:	Customer to specify and supply.

WIND LOAD

The door is designed to withstand external wind load in accordance with Uniform Building Code design and wind loads specified by the customer's zip code.

DRIVE SYSTEM

A single or dual submerged, electric powered, hydraulic pump (s) operates the door. Power unit to be mounted to the floor and connect to the HydraLink® door via supplied hydraulic hoses. Includes a, non-restrictive, high flow, filtering, oil-system, to extend the life of all components.

OPERATION CONTROLS

Actuation: Up or down push button switch provided.
Note: Additional closing safety features are available (I.E. photocell or safety edge).

POSITION LOCKING

Automatic lock valve, located in the hydraulic cylinder, secures the door in any position.

AIRSIDE STRUT™

For engineering purposes, a built up galvanized AirSide Strut™, is positioned across the outside of the door at approximately 50% of the elevation. The AirSide Strut™ elevation will typically allow the placement of a 3'-0" x 7'-0" personnel door.

SEALS

Seal fitted to the sides and bottom of the door is 1-ply E.P.D.M. rubber, durometer of 60, temperature -20° C/ +70° C.

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WARRANTY

Structural door framework and fittings:	5 year materials.
Cylinders:	5 year materials.
Hydraulic pumps:	5 year materials.
Extended Warranty Plans:	Available upon request.

OPTIONAL ACCESSORIES

PERSONNEL DOORS

Personnel Door: 3'-0" x 7'-0" left or right swing available. Door opens outwards. Single cylinder satin chrome commercial keyed entry lever with metal chassis and 2-keys.

WINDOWS

AirSide Doors can fabricate just the framework if you prefer to source your own windows and doors.

INSIDE SHEATHING

AirSide can add additional framing to the inside of the HyrdaLink™ door for customer to apply their own internal sheathing/insulation.

SAFETY EQUIPMENT

Safety Edges- Requires Power (Can be installed during or after door installation).

A full height optic-electronic safety edge is mounted within leading edge seal of the door. An impact on the edge during closing will automatically stop and to open the door, you must engage the up button.

Photocells- Requires Power (Can be installed during or after door installation).

A thru-beam synchronized photocell is fitted. Each photocell comprises a transmitter and a receiver, which sends a beam between the two. Photocells can be fitted for closing safety, opening safety, or combination of opening and closing. If a closing safety beam is broken during the closing cycle, the door will automatically stop. If an opening safety beam is broken during the opening cycle, the door will automatically stop.

Light & Audio Beacon- Requires Power (Can be installed during or after door installation).

Beacon combines visual indication together with a loud siren to alert people of door operation. When activated, the beacon will flash and generate a sound to alert the user of present situation. Two colors available to differentiate between alarm types or types of call.

OPERATING CONTROLS

Push Button Station:

Buttons on front: Push button opens door, Close button closes door. *Note: All options in the safety section and operation section category must use this push button station.*

Key Switch

Sprung return key switch in separate enclosure for opening of the door by key holders only. For internal or external use.

Digital Key Pad:

Illuminated code lock for operation of the door by authorized persons only. For internal or external use.

Wireless Control

Radio control system for remote operation of the door from a vehicle or limited distance. Plug-in radio receiver supplied with 1 twin channel transmitter. Additional transmitters available for multi-user systems.

12V DC Backup Power Supply

Provides battery powered door operation (battery not provided).