

www.TURNSTILES.us, Inc.

Submittal Package

To:	F.A. Wilhelm Construction
Project:	Novo Nordisk – Pegasus SL3
Submitted By:	Patrick McAllister, Corporate President
Date:	May 8, 2025

Submittal Documents – Cover Page

We are pleased to submit the following documentation for the access control systems being provided by TURNSTILES.us, Inc. for the Novo Nordisk Pegasus SL3 Project in coordination with F.A. Wilhelm Construction. These documents pertain to the installation and integration of our dFlow Turnstile System and associated components.

Included in this Submittal Package:

- 1. dFlow Gates Product Guide
 - Overview of Free Flow concept
 - Technical features and configuration options
 - Artificial Intelligence & imaging capabilities
 - Swing door specifications and integration overview
- 2. Equipment Location Drawings
 - Layout and Elevation Drawings – dFlow Morphorwave Compact
 - Filler Shoe, Panel, and Rail Dimensions
 - Anchor and Conduit Coordination Details
- 3. Cable Management System Data Sheet
 - Extruded Aluminum Surface Raceway
 - Snap-on cover, corrosion-resistant, drill/tape mountable
 - Designed for durable cable routing in secure and non-secure zones


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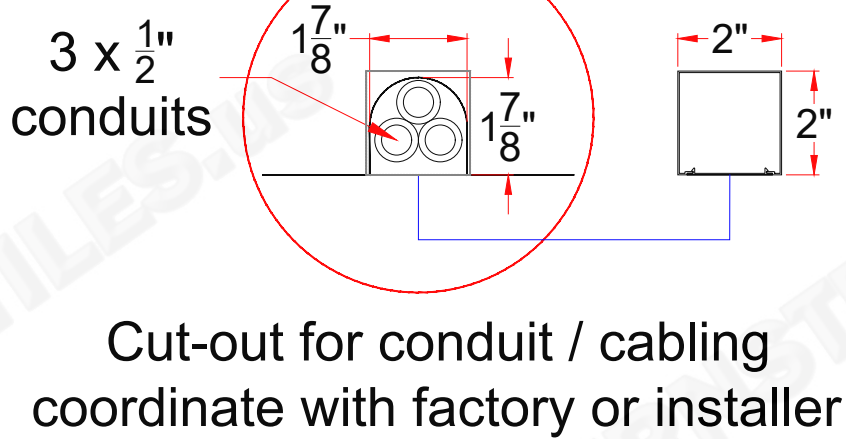
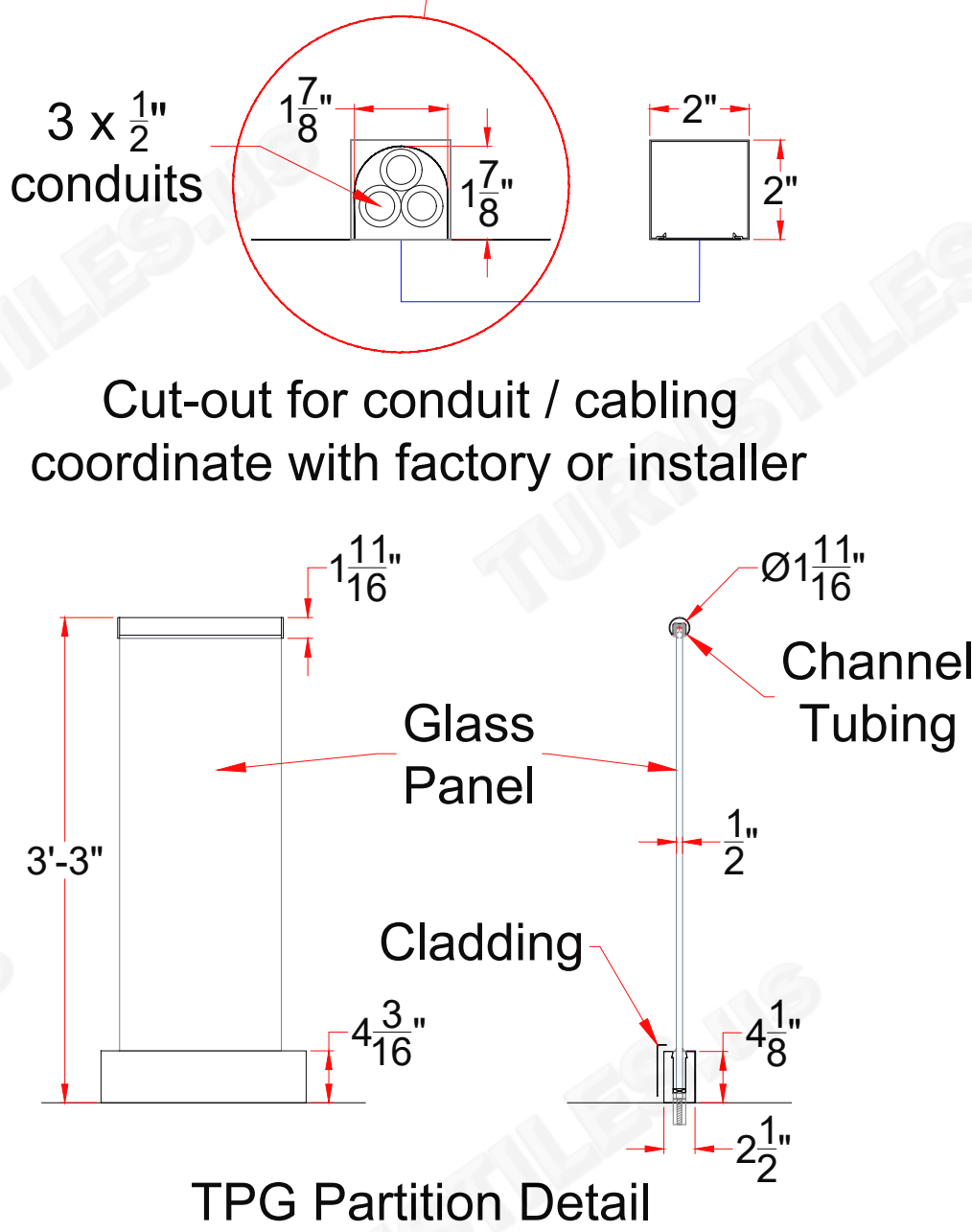
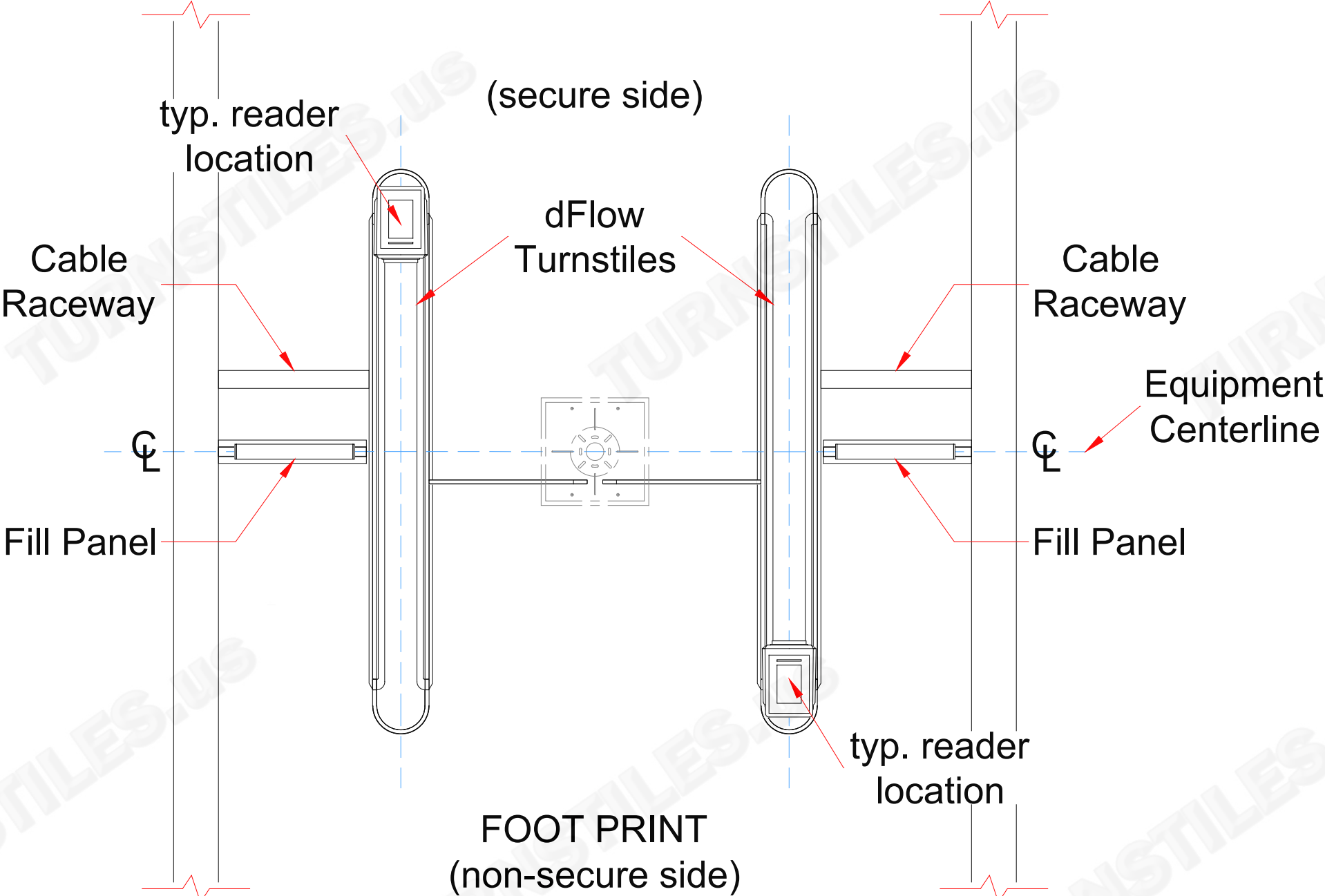
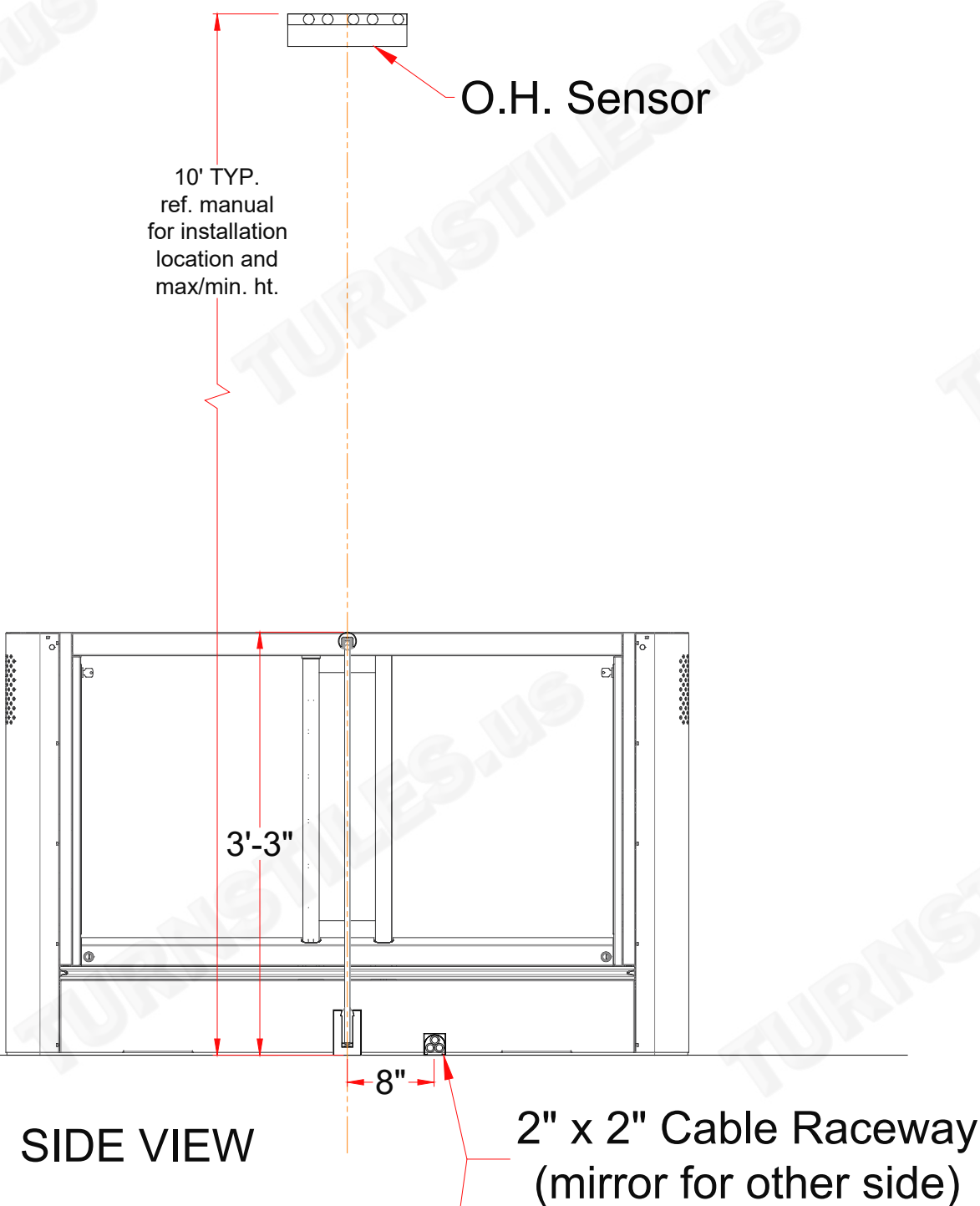
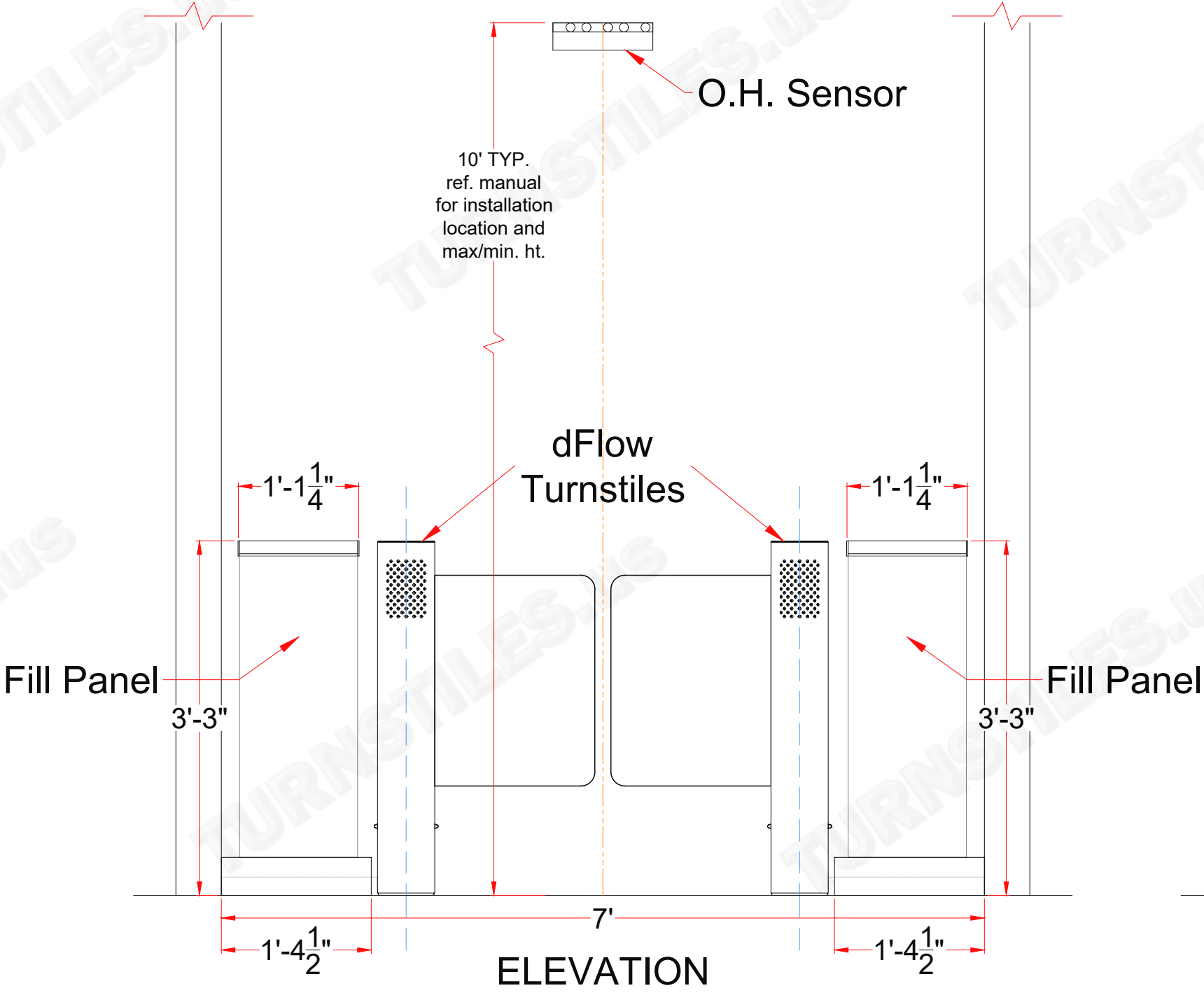
Patrick McAllister

Corporate President, TURNSTILES.us, Inc.

 patrick.mcallister@TURNSTILES.us

 303-670-1099

DIMENSIONS MAY VARY IN ACTUAL INSTALLATION - FABRICATION CHANGES RESERVED - SIMILAR EQUIPMENT MAY BE SUBSTITUTED *



* NOTE: EQUIPMENT LAYOUT IS INTENDED FOR 3 LOCATIONS
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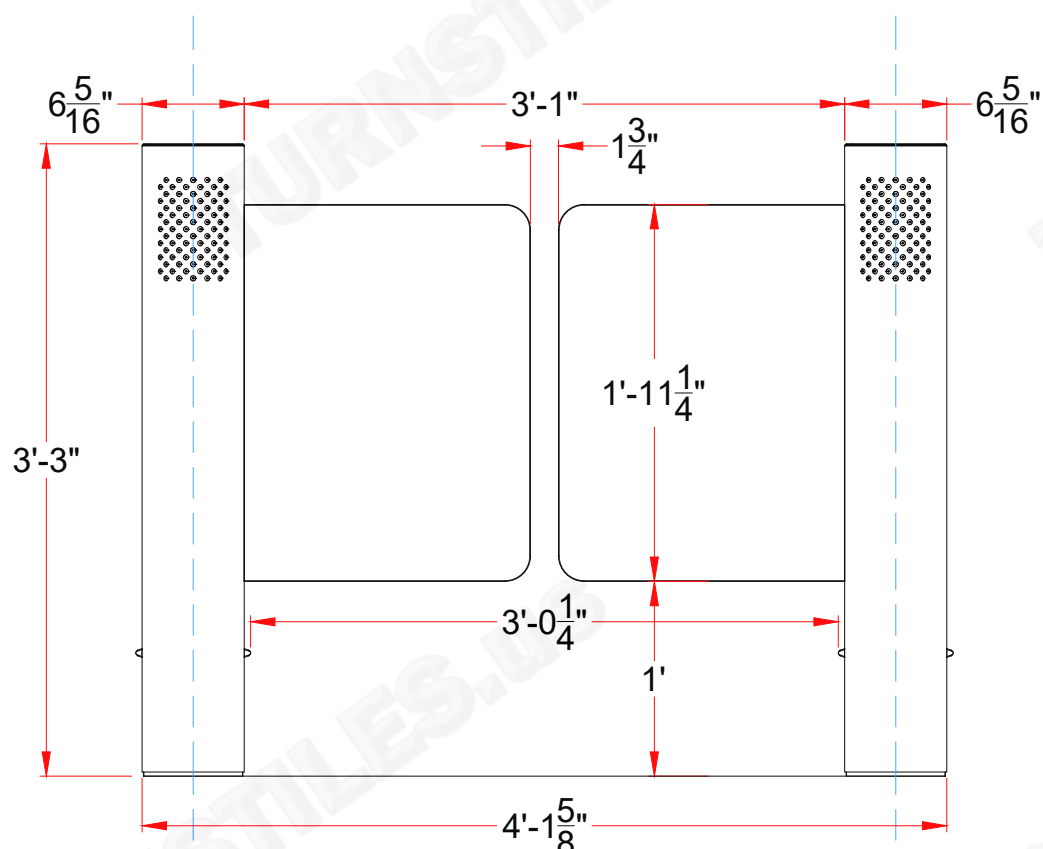


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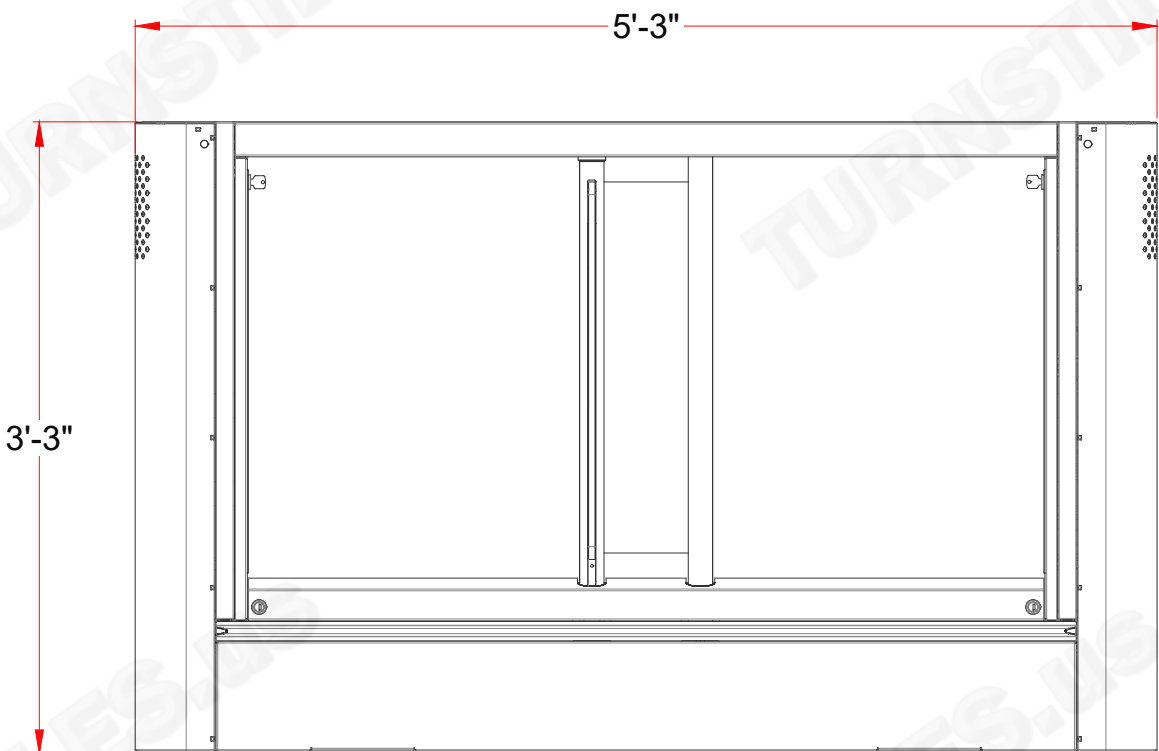
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F. A. Wilhelm Construction Indianapolis, IN 46203 dFlow Turnstiles Morphorwave Compact Filler Shoe, Pane, and Rail	
DRAWING:	
F. A. Wilhelm Const. dFlow - Morphorwave Compact Filler - ELD	
DATE:	05-08-25
PAGE:	1 OF 2

DIMENSIONS MAY VARY IN ACTUAL INSTALLATION - FABRICATION CHANGES RESERVED - SIMILAR EQUIPMENT MAY BE SUBSTITUTED *

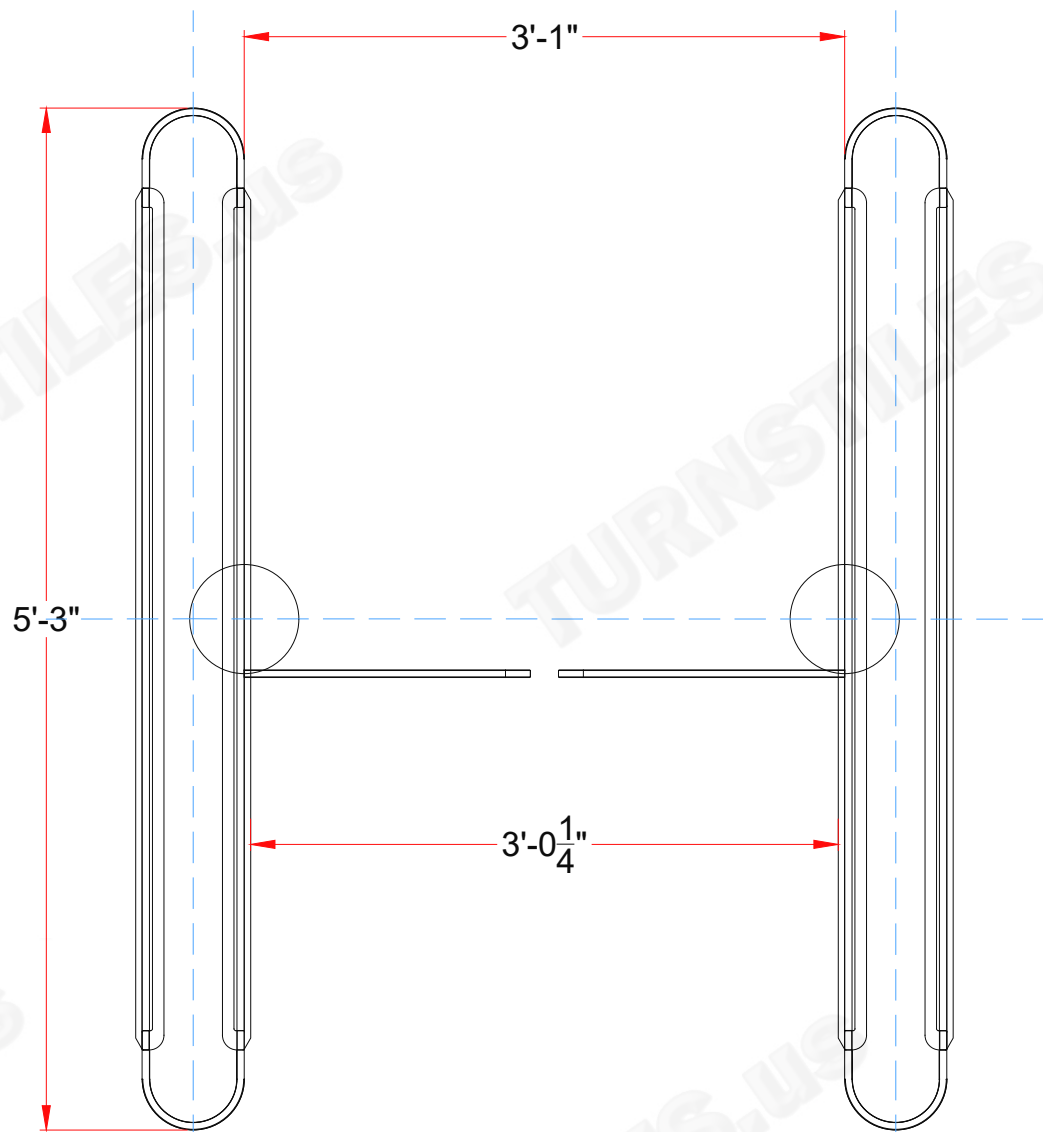
dFlow 900 Detail



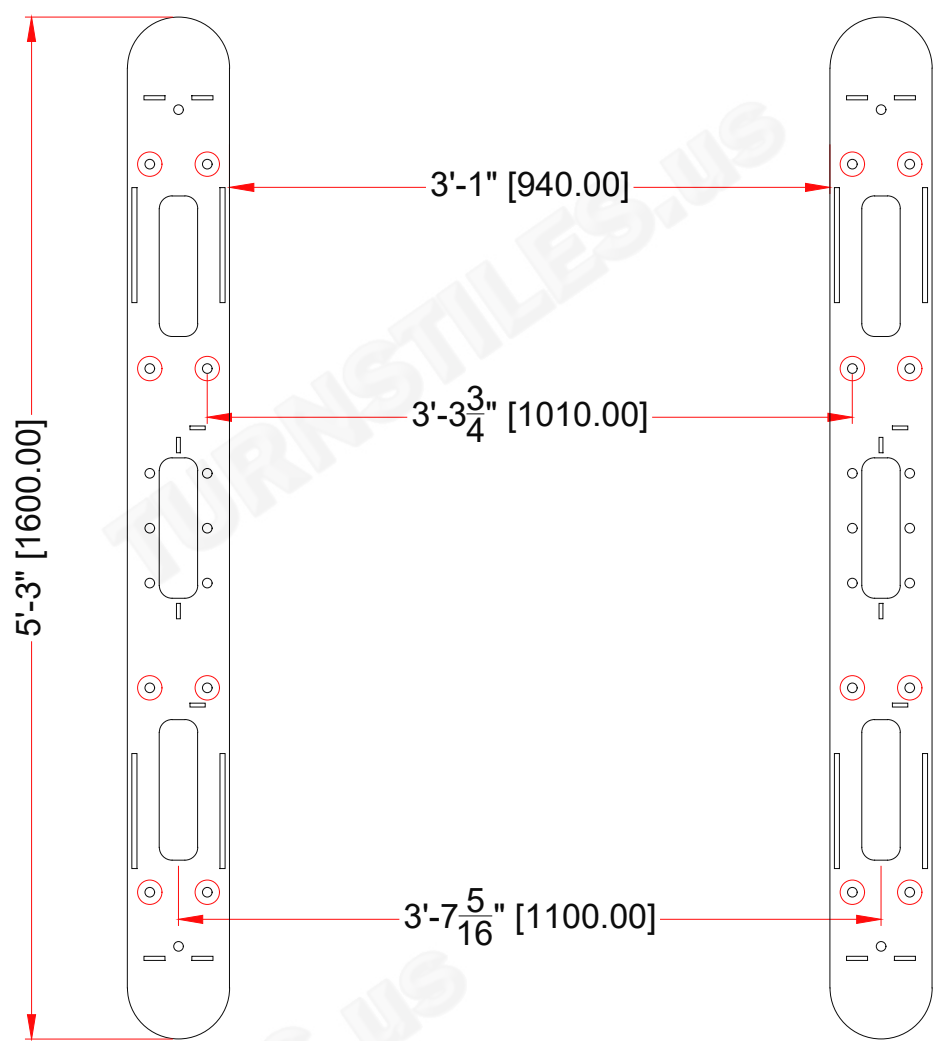
ELEVATION



SIDE ELEVATION



FOOT PRINT



Anchor & Base Template
ref. manual p.16 for full
dimensions if needed

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dFlow

Free Flow Turnstile Gates



dFlow
JUST GO.



TURNSTILES.us introduces a new vision for access control gates – one with continuous flows and normally open doors. dFlow is FREE FLOW, ushering new levels of comfort and security.

Instead of obstructing users, they are instead welcomed with a fully open passageway and a distinctive system of visual identification. In the event access is not granted, the gate doors will close in proportion to the proximity and speed of the non-authorized user. All this thanks to a revolutionary imaging system, which monitors the entire gate instead of a limited number of specific sectors.



dFlow gate installed at EBAC - British School of Creative Arts - in São Paulo.

Innovative Imaging System with Colors Visually Identifying User Groups

The imaging system is equivalent to an almost infinite number of traditional IR sensors, bringing a new level of precision in the identification of unauthorized users. The algorithms are able to identify and track multiple users entering or leaving the passage area. The result is very reliable identification of tailgate and/or piggyback attempts.

Bidirectional Flow

dFlow can be configured for unidirectional or bidirectional access in widths ranging from 500mm up to over 914mm. By precisely identifying unauthorized users, dFlow technology permits a 914 mm (36") gate to be used by ordinary and special needs users with the same or better effectiveness than traditional 560 mm (22") or 711 mm (28") gate. The use of dFlow in larger widths allows for a more pleasant user experience and provides comfortable, simultaneous bidirectional passage, resulting in a reduction in the number of gates needed in a project.



DFLOW and DFLOW ULTRA WIDE

Meet the FREE FLOW concept for access control gates. Gates with normally closed doors are behind the times. Forget having to wait for each user to pass before the next can be validated. Actually, forget everything you know about gates.

We introduce a new vision for access control gates – one with continuous flows and normally open doors. dFlow and dFlow Ultra Wide are FREE FLOW, ushering new levels of comfort and security. Instead of obstructing users, these are instead welcomed with a fully open passageway and a distinctive system of visual identification. In the event access is not granted, the gate doors will close in proportion to the proximity and speed of the non-authorized user. All this thanks to a revolutionary imaging system, which monitors the entire gate instead of a limited number of specific sectors.

The doors are normally open. Traditional gates have their doors normally closed. It is this new paradigm that differentiates a FREE FLOW gate from all those available until now. dFlow is the first gate that fits perfectly within the FREE FLOW concept. Although it seems that dFlow is always open, it actually does have doors. These are activated only when one or more unauthorized users, including tailgaters and piggy backers, try to pass through the gate.

The closing mechanism is fast and accurate. A modern imaging system feeds data to sophisticated algorithms that control the acceleration and position of the barriers based on the location, speed and direction of movement of unauthorized users. Traversing the gate becomes a more pleasant and faster experience for authorized users while increasing gate security to unprecedented levels.

FEATURES

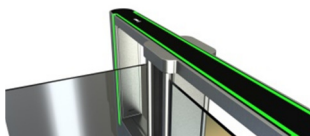
SWING DOORS GATE



The dFlow gate is sophisticated and full of new technologies. The doors are fast moving swing gates. Advanced algorithms allow them to close proportional to the speed, position and direction of one or more unauthorized users in the passage area. The doors open again as the unauthorized users move back and away from swing gates.

- Opening angle of doors 88°
- It has two doors for the entrance way
- It has Two doors for the exit way – optional to turn gate into bidirectional

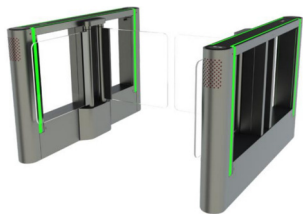
WINDOWS OF LIGHT



Indicative LED “windows” follow the user through the gate with different colors for different user groups. For example, in a school application students can be followed by a green window, educators by a yellow window and authorized family members by a blue window. A red “window” can follow unauthorized users. The flexibility of dFlow allows for other user groups to be identified by a wide range of colors. The result is more comfort for the user and more security and information for the access control system.

CABINET

EACH DFLOW SINGLE LANE INCLUDES



- 1 unit of Overhead detection system;
- 2 Side cabinets made of AISI 304 Stainless Steel 2mm thick;
- Side and top pictograms on both sides;
- RGB illumination along the tower's side to show equipment's flow and operation;
- 4 doors made of polycarbonate in each lane (bidirectional version) 2 for entrance and 2 for exit;
- 2 Supports for proximity reader – 1 for entrance and 1 for exit (proximity readers not included);
- Card collector set (optional)

INTEGRATION



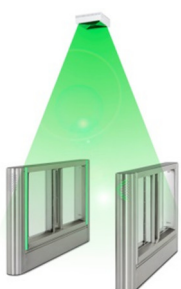
dFlow was designed to meet the needs of the majority of currently available access control technologies.

MOTOR



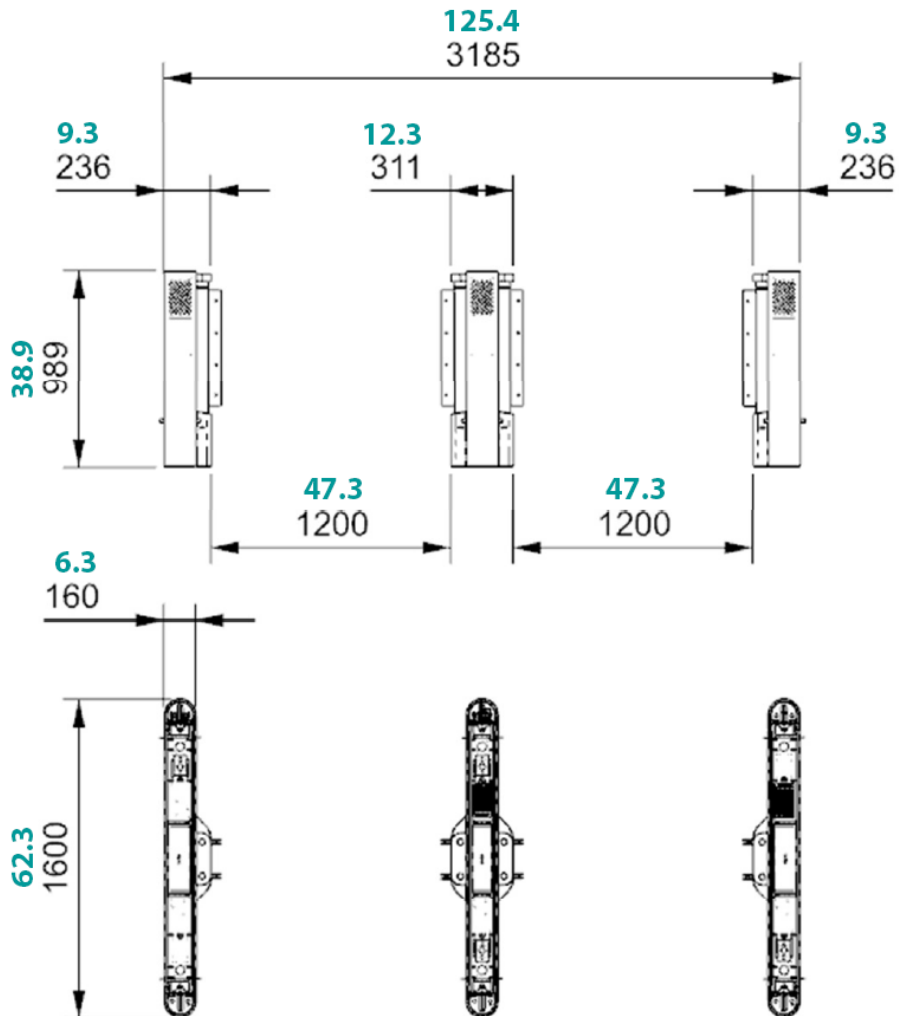
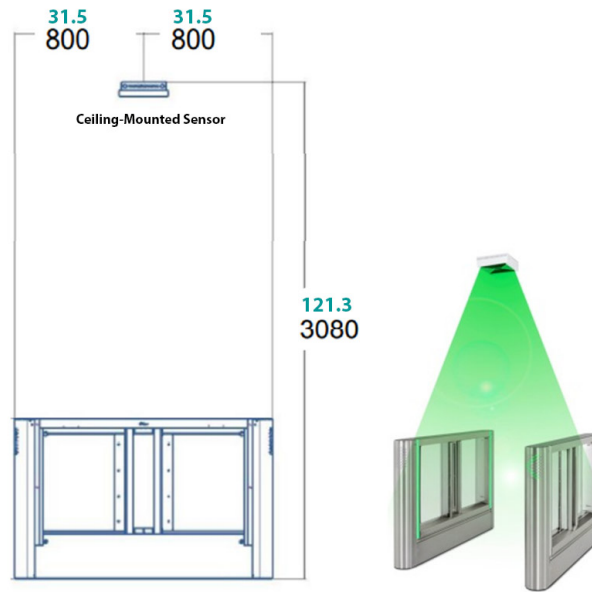
- Brushless servomotor grants a smooth and silent movement to doors;
- Doors movement is controlled by a high resolution encoder board;
- Motor may close doors in up 0.4s (depending on the door's size) when operating in the normally open mode. It closes only to the unauthorized user threatening the exception as an exception;

OVERHEAD DETECTION SYSTEM

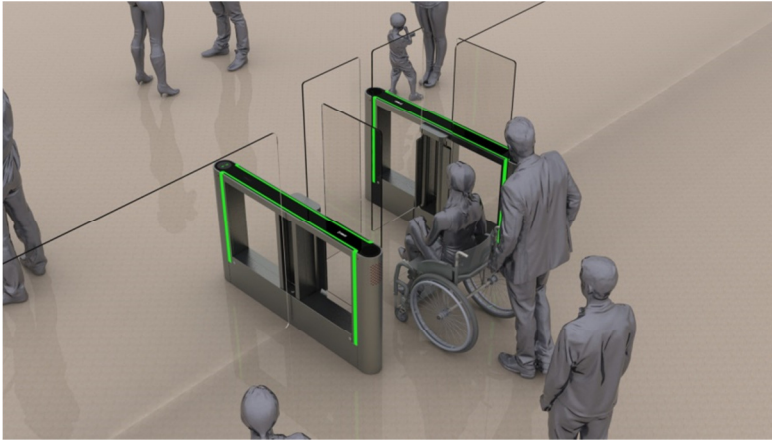


The imaging system is equivalent to an almost infinite number of traditional IR sensors, bringing a new level of precision in the identification of unauthorized users. The algorithms are able to accurately identify people and ignore objects such as bags, hats, caps, backpacks, cell phones and others. They can also identify and track multiple users entering or leaving the passage area. The result is very reliable identification of tailgate and/or piggyback attempts. The imaging system can detect unauthorized users in front, behind or even side-by-side of authorized users.

DIMENSIONS



dFlow IN ITS 1200mm WIDE VERSION – SIMULTANEOUSLY BIDIRECTIONAL (Narrower lanes also available on request)

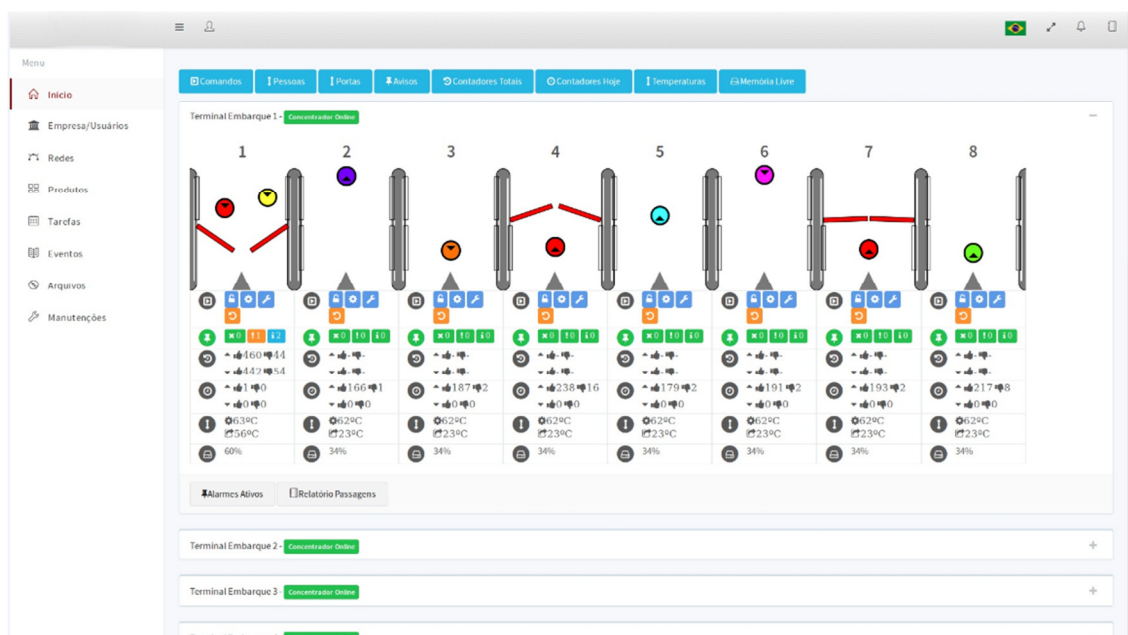


Four motorized doors (2 sets of 2 doors) to control access on both sides – entrance and exit



MONITORING SYSTEM

The dFlow monitoring software allows you to view everything that goes on in the passage area in real time and remotely. It also allows you to control the flow, to identify security events, and to issue complete access control reports. The application displays a visual simulation of what the sensors are tracking, assisting supervisors in identifying fraud attempts.



DFLOW AND ARTIFICIAL INTELLIGENCE CONCEPT

Only a few products are really capable of performing a revolution in the Market they are positioned and the ones that make it are awarded with immediate distinction. Since its release the dFlow has gathered all necessary elements with its features to make this revolution. Its overhead detection system granted an unparalleled tracking capacity that is not met in any other existing product. Its Free Flow system with normally open doors opened new possibilities still taking into account user and asset safety/security and bringing features like gradual movement of doors and simultaneous bidirectionality. With our obsession of making user experience even better, and offering more comfort to people who uses our equipments providing more assertiveness on our tracking system, this is yet another innovation that goes beyond technology: the use of Artificial Intelligence in our dFlow. Adding this new feature dFlow expands its capacity for control and tracking users highlighting itself even more as a market reference.

The use of Artificial Intelligence in dFlow through a Virtual Vision module brings important improvements in image analysis. This module is capable of making an even more precise detection of what are people and objects going through the lanes and, in conjunction with dFlow's proven software algorithms, it brings a new landscape of possibilities and functionalities.

With dFlow's virtual vision module it is capable of detecting and following with greater accuracy and unicity users within gated area. Therefore it is possible to better identify intentional tailgating attempts in which users tries to cheat dFlow's system by entering very close one to another in whatever position they are. Effectively false detection cases are improved significantly. This new feature elevates level of asset protection that equipment offers to environments yet still keeping same user safety levels that it already had. Moreover, this module assists on the identification of what objects/people should be tracked, this means being capable to choose for which ones doors should act/block. It means that the module helps dFlow's software algorithm to track people in the most odd/difficult cases and it adds a layer to dFlow's tracking system making it even more robust.

This feature also is constantly monitoring dFlow's context of use. Items like lighting, frequency of use, objects/furniture in the surrounding areas and other aspects are analyzed and dynamically change its parameters to optimize its operation.

New technologies and great innovations have as fundamental purpose to positively impact people's lives. Companies that mobilize its intellectual, technical and operational capacities are the ones responsible for bringing to the market products that truly meet this requirement. A technological access control device with all the innovative features it already had brings with itself a new tech component. Through its enhanced abstraction and processing capabilities it transforms what was possible to think of a product which basic function was simply open/close doors.



Mr Shan Business Tower - Brazil



British School of Creative Arts - Brazil



Commercial Building - Brazil

Access Control

TURNSTILES.us gates and turnstiles greatly improve your facility's security position.

Installation is Available!
Contact us for a Quote

- Design and innovation
- Strong and reliable technology
- Unique mechanisms and motors
- Hassle free turnstiles

Ideal for:

- Commercial buildings
- Airports
- Hospitals
- Public Transportation
- Stadiums
- Gymnasiums
- Parks

Turnstile Installation

Complete Security Turnstile Systems

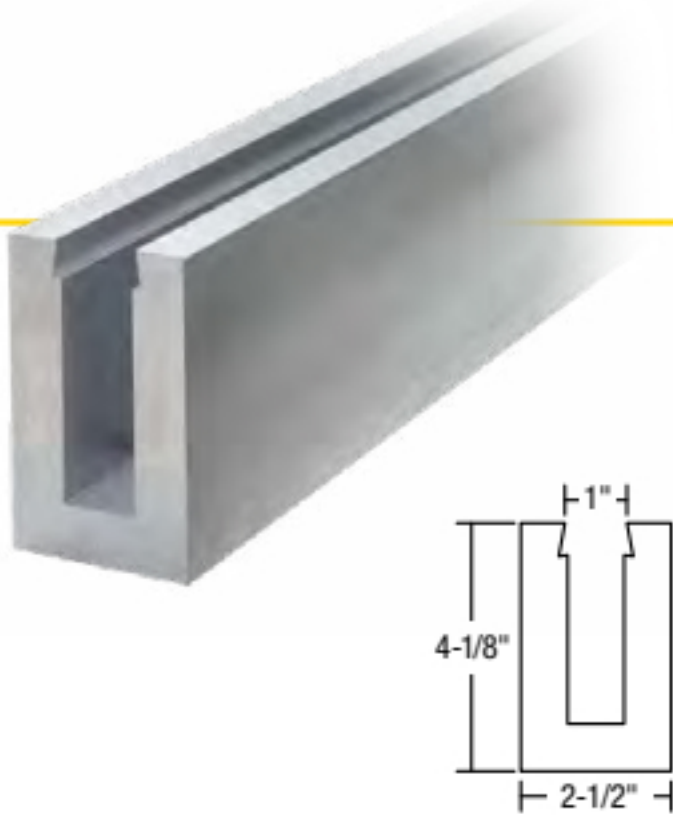
Freestanding, frameless Glass Railing Systems offer a classically modern look to your project. The traditional, wet-glaze installation method is a tried and true process that firmly secures the glass into the aluminum base shoe. Mount the shoe directly to the floor or side mount as a fascia-mount.

Add the finishing touch to your Glass Railing project by adding a Channel Tubing handrail. We offer all the necessary components to make installation a breeze.

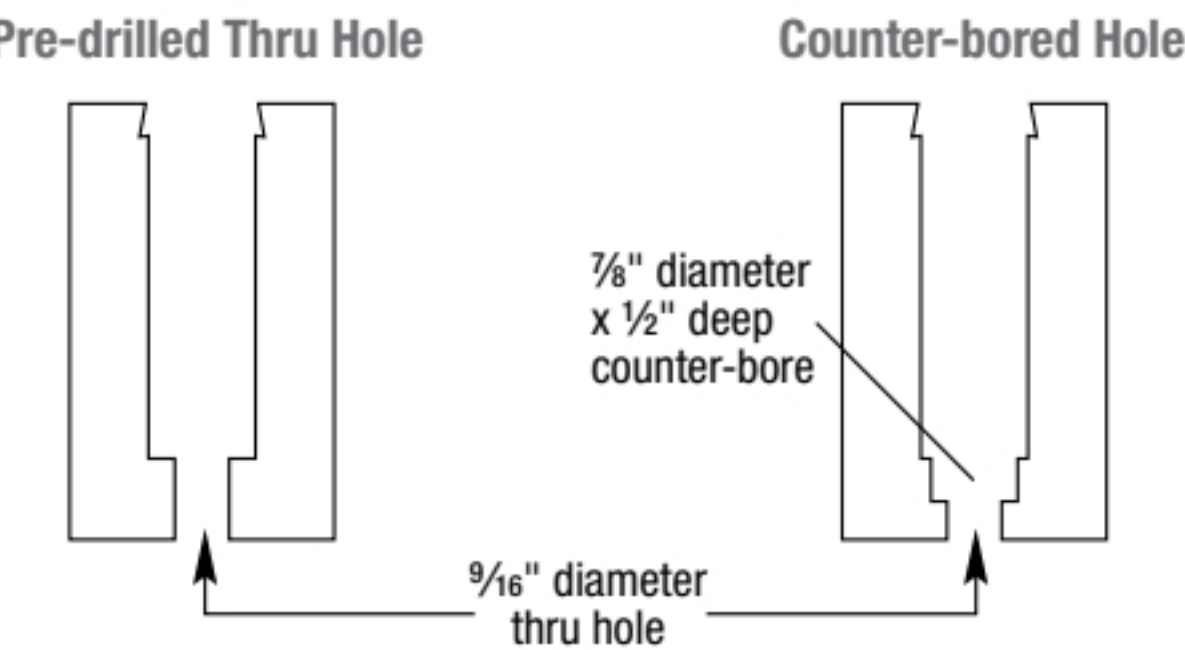
Aluminum Shoe Moulding for 1/2" Glass

Creates a clean look in Glass Railing.

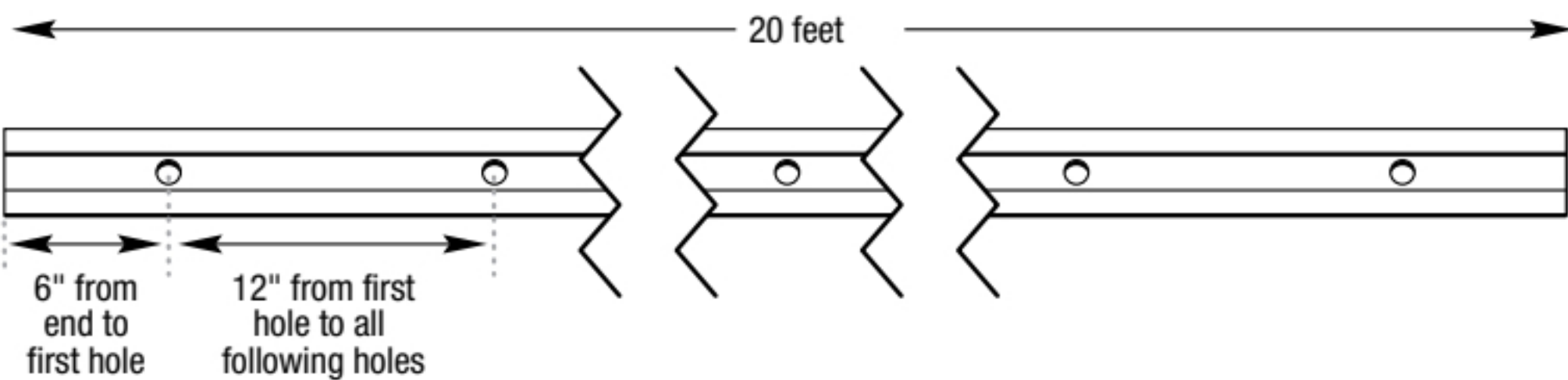
ITEM #	MATERIAL	PRE-DRILLED HOLES	LENGTH
50-A123B/20	Aluminum	none	20'
50-A123B/DR/20	Aluminum	yes	20'
50-A123B/CB/20	Aluminum	counter-bored	20'



Pre-drilled Hole Sizes



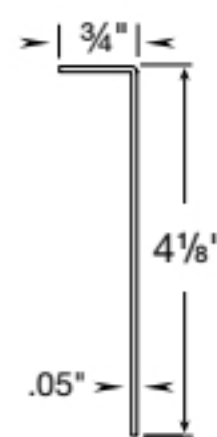
Pre-drilled Hole Locations



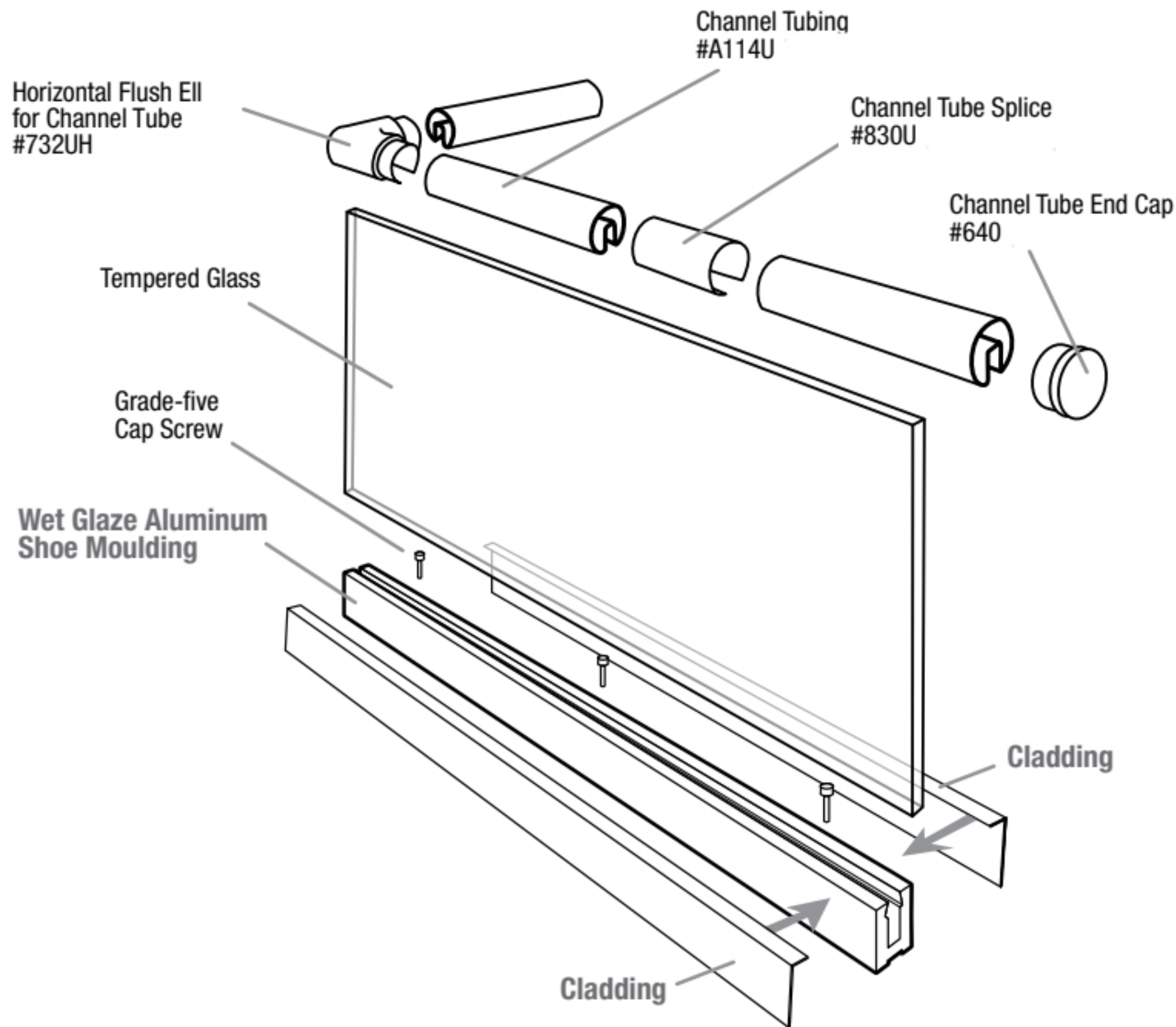
Solid Stainless Steel Cladding

Creates a finished look for the mill-finish aluminum shoe.

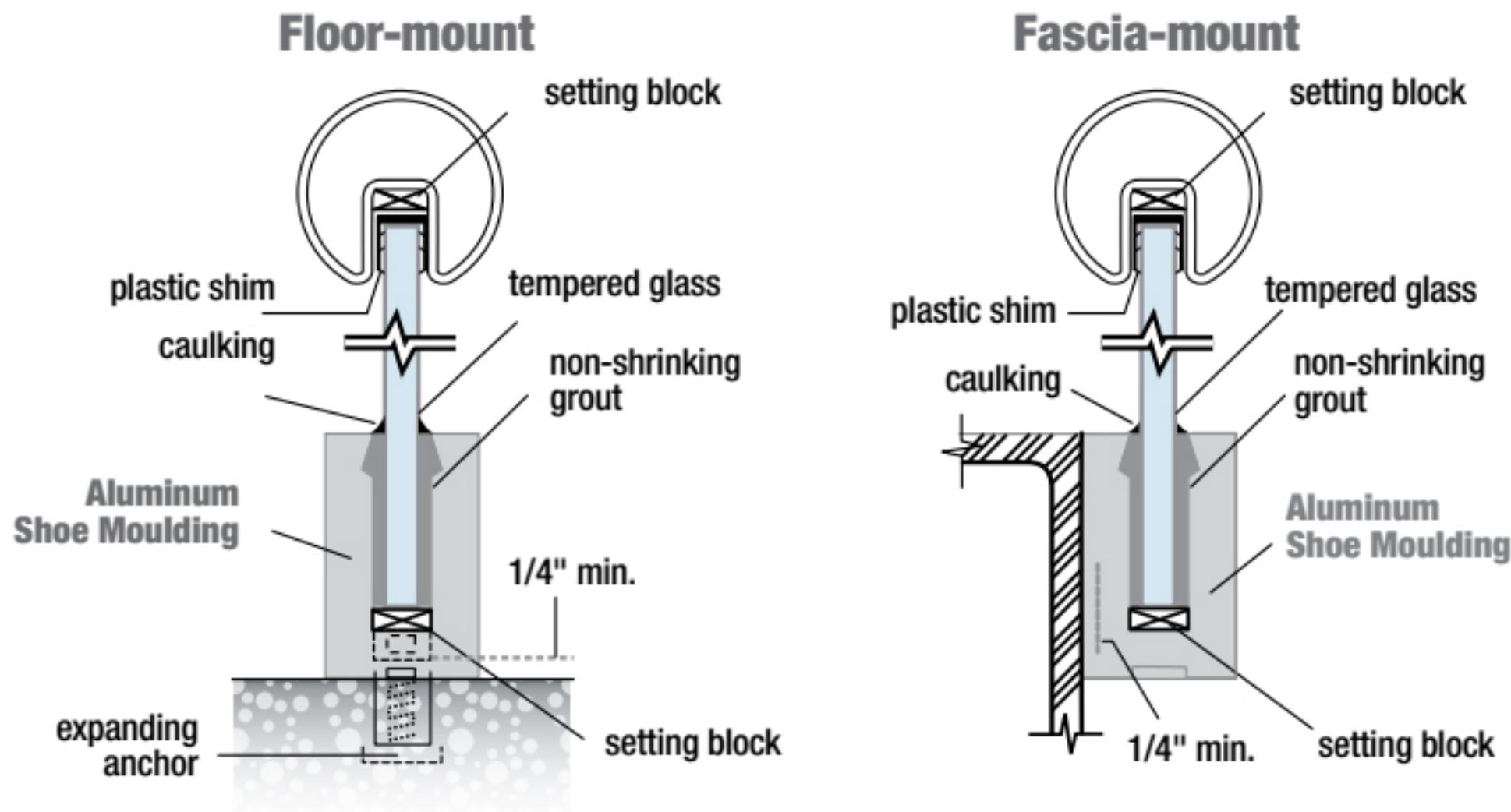
ITEM #	MATERIAL	FINISH	LENGTH
47-CLD04/10	316 Stainless Steel	Polished	10'
49-CLD04/10	316 Stainless Steel	Satin	10'



Glass Railing Assembly



Mounting Conditions



Glass railing offers a clean, elegant and open solution for any environment.

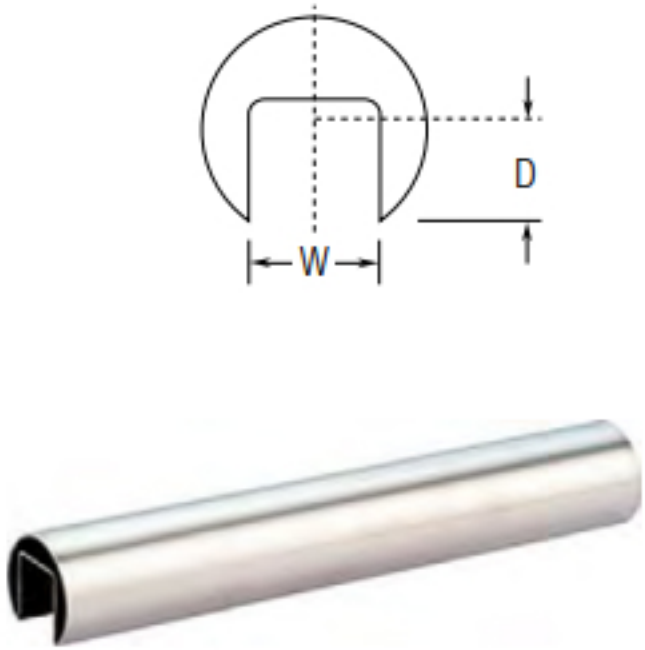
Channel tubing is used to cap the top of the glass panel and gives the railing a finished look.



Channel Tube

Used to finish the top of glass railing.

ITEM #	MATERIAL	FINISH	OD	WALL THICK	LENGTH	W	D
44-A114U/16	304	Satin	1.67"	0.06"	16'	0.94"	0.94"
40-A114U/16	304	Polished	1.67"	0.06"	16'	0.94"	0.94"
49-A114U/16	316	Satin	1.67"	0.06"	16'	0.94"	0.94"
47-A114U/16	316	Polished	1.67"	0.06"	16'	0.94"	0.94"



Channel Tube Insert

Used to secure glass inside a Channel Tube.

ITEM #	MATERIAL	GLASS THICK	LENGTH
85-CT11002	Rubber	1/2"	100'
85-CT11003	Rubber	3/4"	100'

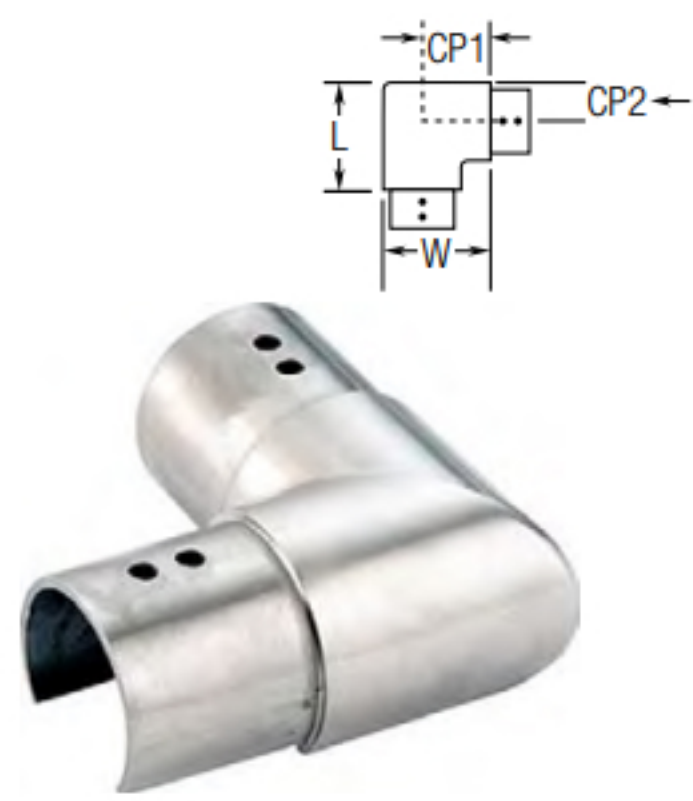


Channel Tube Fittings

Horizontal Flush Ell for Channel Tube

Connects channel tube in 90° angle horizontally.

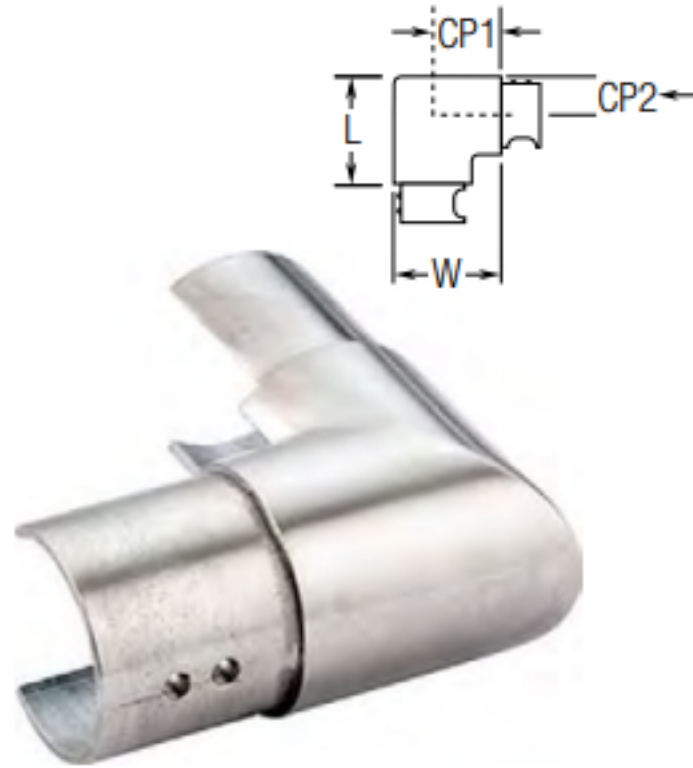
ITEM #	MATERIAL	FINISH	TUBE	WALL THICK	W	L
49-732UH/424	316	Satin	1.67	0.06"	2.03"	2.03"
47-732UH/424	316	Polished	1.67	0.06"	2.03"	2.03"



Vertical Flush Ell for Channel Tube

Connects channel tube in 90° angle vertically.

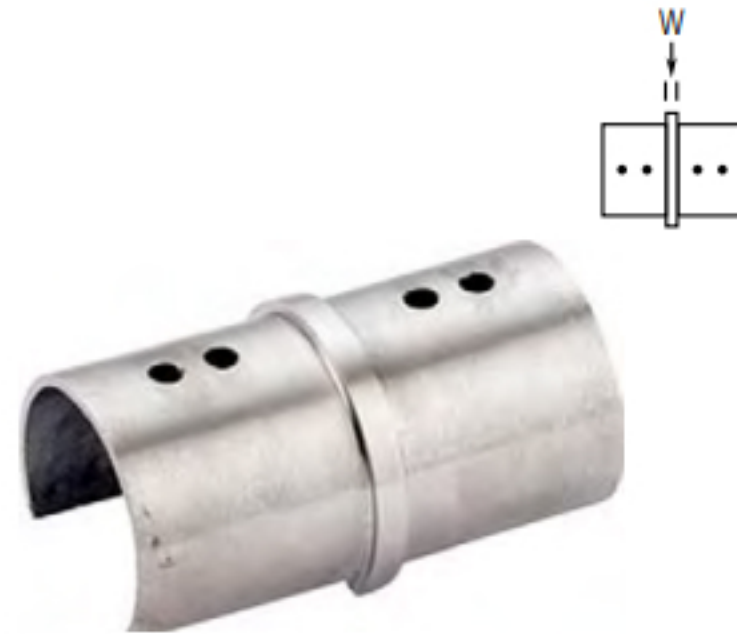
ITEM #	MATERIAL	FINISH	TUBE	WALL THICK	W	L
49-732UV/424	316	Satin	1.67	0.06"	1.97"	1.97"
47-732UV/424	316	Polished	1.67	0.06"	1.97"	1.97"



Channel Tube Splice

Connects channel tube in a straight line.

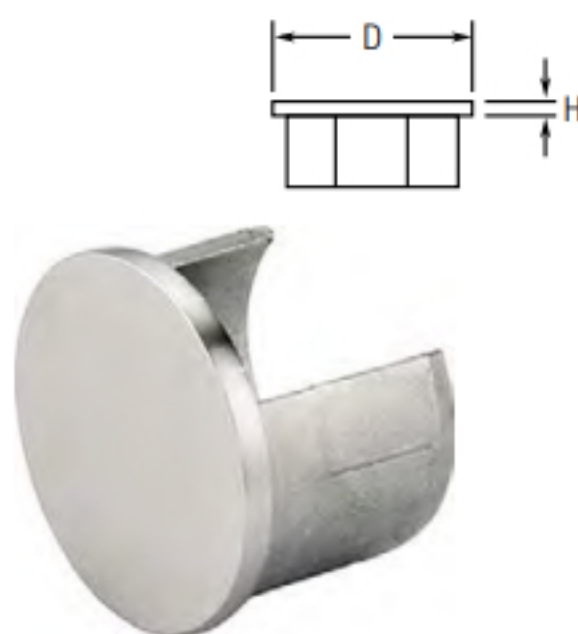
ITEM #	MATERIAL	FINISH	TUBE	WALL THICK	W
49-830U/424	316	Satin	1.67"	.06"	0.24"
47-830U/424	316	Polished	1.67"	.06"	0.24"



Channel Tube End Cap

Closes the end of a channel tube.

ITEM #	MATERIAL	FINISH	TUBE	WALL THICK	D	H
49-640/424	316	Satin	1.67"	.06"	1.67"	0.16"
47-640/424	316	Polished	1.67"	.06"	1.67"	0.16"



Specially designed to fit with glass channel tube, these fittings add a design dimension to the standard linear aspect of glass railing.

In addition to the tight fit, each fitting has threaded screw bosses for a more secure connection.



Extruded Aluminum Surface Raceway

Durable Cable Protection for Indoor & Outdoor Applications

What's special about this metal raceway?

- Aluminum construction provides extra durability and resistance to dirt, fingerprints, and corrosion.
- There are no pre-drilled mounting holes; install using double-sided tape or drill holes where you want for precision installation.
- Snap-on cover ensures fast and easy installation.
- Raw aluminum has a great industrial look and may be painted to match any desired environment.

This aluminum raceway is designed for durable cable protection and easy installation and to provide a great aesthetic. This rugged but lightweight raceway is great for commercial and industrial environment

