

# AERO

## Aircraft Boarding Bridges Glass & Metal Wall Apron Drive



Design for maximum airport operational efficiency  
and VIP comfort feel for every passenger





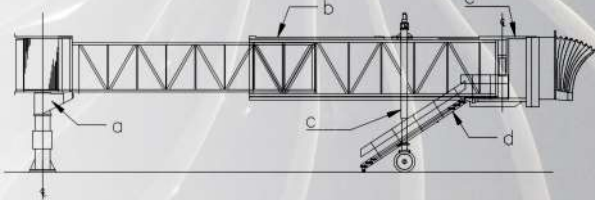
AERO-SYS GmbH is a company with the vision of supplying airport and airline customers under a standardized AERO Aircraft Boarding Bridge (ABB) frame work, while offering customized options utilizing the most advance technological innovative design features turning the ordinary into extraordinary.

Our goal is to provide both airport and airline customers with a seamless VIP service from the initial consultation and planning, to the long term daily operation at the gates in the most simplistic form.

AERO wishes to share our vision by providing every busy elite Passenger a “comfort feel” like no other as they walk through the AERO Boarding Bridge from the departure lounge to Aircraft with the VIP experience while boarding however short this path appears.

The AERO Boarding Bridge is consisted of the following major segment;

- a - Rotunda and Support Column.
- b - Tunnel Section (A, B & C if it is a 3-tunnel bridge)
- c - Vertical Lift Column and Horizontal Drive
- d - Service Door, Landing and Stairs
- e - Bubble, Cab and Aircraft Interface Canopy



The Standard AERO Boarding Bridge Features includes;

- Fail Safe Design
- Touch screen & push-button controls
- Auto Joystick Control Steering
- Computerized Controller (PLC)
- Electro-Mechanical or Hydraulic Lift
- Rain Proof Seamless Roof
- Solid Tires
- Glass or Metal Wall Design



The Standard AERO Boarding Bridge is designed according to the following codes;

Structural Plate; DIN 17100:St44-2, GB 700:Q235, JIS G3101:SS400, ASTM-A36

Flange Steel; DIN 1.0966:QStE690TM, EN 10149-2:S700MC, ASTM-A514

Structural Steel; DIN17100:St 37-2, GB Q235-F, EN 10025:S275JR, JIS G3101:SS41, ASTM-A36

Steel Sheet; DIN S235 JRG1, ASTM-A570

Hinge Pins; DIN 1.0453, DIN C16.8, GB 715 MI3, AISI-C1018

Steel Tube; DIN EN 10210-1&2, ASTM-A500

Steel Pipe; DIN 1629, EN 10216-1, ASTM-A53-GR.B

Bolts-Standard; DIN17100 St 50-2, JIS SS41, ASTM-A307

Bolts Hi Strength; DIN 1654 Cq35, JIS G 4051 S33C, ASTM-A325

Bolts High Strength; DIN 6914, BS4395, JIS B1186, ASTM-A490

Code Compliance: DIN, GB, JIS, SAE, ASME, NFPA, AIA, NEMA, CE and NEC.







Model No.	Max	Op Max	Min	Op Min
S2T120150	14.81	10.06	11.93	9.18
S2T130175	17.49	12.74	13.03	10.27
S2T135180	17.89	13.14	13.53	10.77
S2T140185	18.39	13.64	14.03	11.27
S2T145205	20.58	15.82	14.62	11.86
S2T160235	23.36	18.60	16.21	13.46
S2T180265	26.69	21.94	17.88	15.12
S2T190275	27.69	22.94	18.88	16.12
S2T195300	29.87	25.12	19.47	16.71
S2T210330	32.86	28.10	21.06	18.30
S2T225360	36.04	31.29	22.65	19.90
S2T240385	38.52	33.77	24.24	21.49
S2T260415	41.41	36.65	25.83	23.08
S2T275440	44.09	39.34	27.42	24.67
S2T290470	47.17	42.42	29.02	26.26

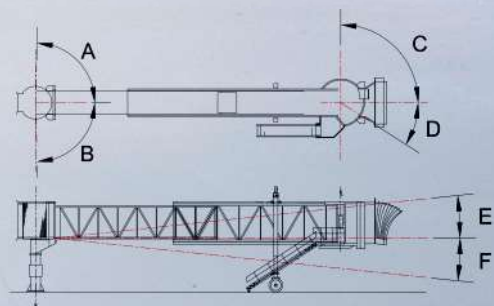
Model No.	Max	Op Max	Min	Op Min
S3T110125	12.26	7.51	10.84	8.09
S3T115160	16.18	11.43	11.43	8.68
S3T120165	16.68	11.93	11.93	9.18
S3T125170	17.18	12.43	12.43	9.68
S3T130205	20.56	15.80	13.03	10.27
S3T135210	21.06	16.30	13.53	10.77
S3T140215	21.56	16.80	14.03	11.27
S3T145255	25.33	20.58	14.62	11.86
S3T160300	30.11	25.35	16.21	13.46
S3T180350	35.11	30.35	17.88	15.12
S3T190360	36.11	31.35	18.88	16.12
S3T195400	39.88	35.13	19.47	16.71
S3T210435	43.26	38.50	21.06	18.30
S3T225475	47.43	42.68	22.65	19.90

**Standard Dimension & Characteristics of AERO Boarding Bridge;**

- Rotunda/Terminal Interface: W1.50m x H2.30m
- Minimum Tunnel Interior: W1.50 x H2.13m
- Heavy Duty Weather Cab Double Swing Door: W1.50m x H2.30m
- Cab Interior: W3.10m ; Tunnel Ramp Slope 2.5°
- Service Door opening to Apron: W900mm x H2.0m
- Service Stair to Apron: Self-Adjusting W800mm x D220mm

- Cab rotation speed 145°/min
- Vertical Speed 1.00m/min
- Horizontal Speed 0-28m/min
- Operational Temperature -40 to +55 Deg C

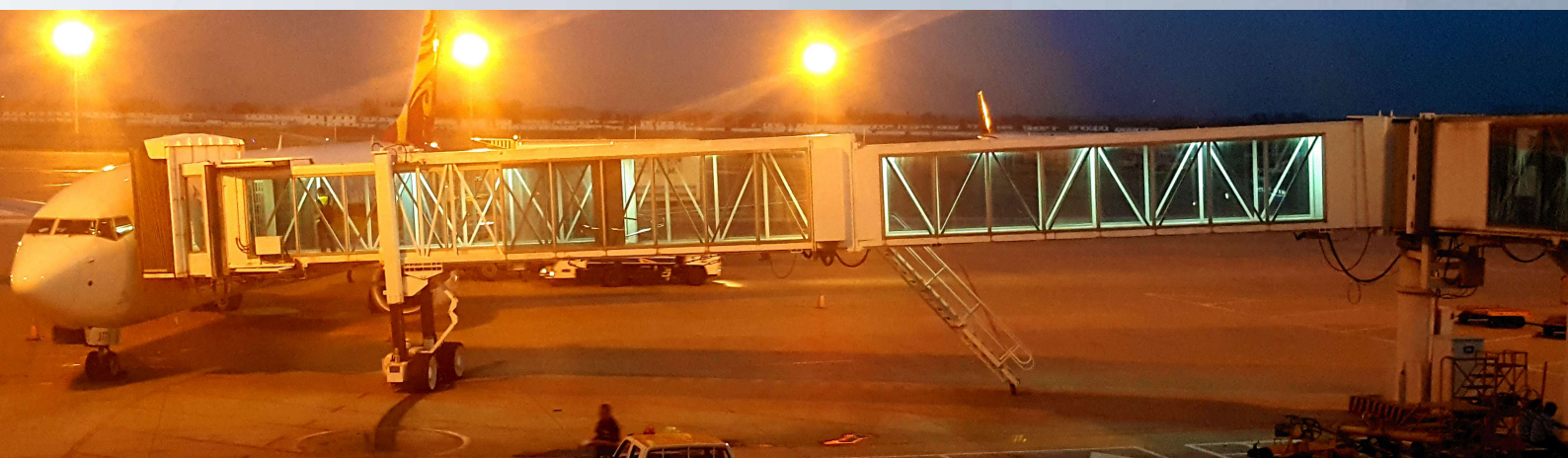
\*\*Other Dimension and Characteristics is available as Optional



A	B	C	D	E	F
88°	88°	90°	32°	12%	12%



\*\* All Dimension are in metres unless otherwise stated  
 \*\* All data shown are subjected to change without notice







#### Power Requirement

The Electrical Requirements is design to operate on 400VAC +/- 10%, 3-phase, 50Hz, 4 wire || 480VAC, 3-phase, 60Hz, 4 wire. The voltages are transformed down to 240V/120VAC 1-phase for lighting and other control circuits. Interior Lighting are illuminate by use of LED or fluorescent tube ensuring the floor is lit to min 200lux. Exterior Lighting includes 4 x IP55 encased floodlights illuminating the horizontal drive unit and the apron areas. The cab/aircraft interface area is illuminated by IP55 encased LED or dual fluorescent tube.

#### Corrosion Protection Standard

Paint and Surface Preparation is to ISO 8504 or SSPC-SP1 (Solvent Wipe), cleaned in accordance with ISO 8501 SA2 or SSPC SP-6 (abrasive blast). Prime with Epoxy Primer to 0.25 – 0.41 mm Dry Film Thickness (DFT) and finished with polyurethane to 0.08-0.10 mm DFT. Other specification can be accommodated as options to customer's request.

#### Standard Finishing Characteristics

The wall is fitted with either laminated insulated safety glass or phenolic plastic panels or both with smooth metal exterior (if not glass) to customer's choice. Ceiling are fitted with Aluminum Planks, LED Downlights, Rotunda and Tunnel floor is Carpeted, Cab floor cover with ribbed rubber. Sub floor is metal finish. Other aesthetic can be accommodated as options to customer's request.

#### First Contact

AERO, from the initial Sales consultation, we will engage with the customer to obtain an understanding of needs and the project scope, rendering a package proposal cultivating it to customer's satisfaction is the goal of AERO's pursuit. Our Sale & Project team together will continue to ensure the execution from signing of contract to commissioning is seamless, and adhering to the customer's requirement delivering in an on-time manner.

#### After Sales Services

AERO's experience technical team are trained to trouble shoot to find and providing solution to customers whenever it arises. The Aftersales Service team work includes developing upgrade solutions and maintenance inspection services to ensure the delivery equipment is operating trouble free in the years of operation for customers.



#### Spare Parts

AERO is dedicated to furnishing a premium service to our value customers, therefore an extensive level of inventory is maintained at AERO's facilities to provide an immediate response to meet customer's need. AERO will also ensure the replacement parts needed will be available for a minimum of 10years.

**The AERO Boarding Bridge is design  
for ease of operation bearing economics in mind.  
At AERO, we believe every Passenger  
deserves the VIP Comfort.**



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