



AviaSafe

Passenger Boarding Bridge (PBB)

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AviaBridge



APPLICATIONS

Apron Docking & Boarding

DESIGN PARAMETERS

Dimensional Characteristics:
Minimum dimensions for all two-tunnel and three-tunnel AviaBridge:

Tunnels (Minimum "A" tunnel only)

Floor	Width	1.5m
Interior	Height	2.1m
Inerior Cab	Width	3.5m

Rotunda Interface

Width	1.5m
Height	2.2m

Environmental Charastristics

Bridge operations at temperatures from -20°C to 50°C

Power Requirements

380 VAC , 3 Phase , 50 Hz

COMPLIANCE

- International Civil Aviation Organization (ICAO) and in particular Annex 14
- Federal Aviation Administration (FAA) AC No. 150/5220-21C
- American Society of Testing Materials (ASTM)
- International Electric Committee (IEC)
- US National Electrical Manufactures Association (NEMA)
- US National Fire Protection Association (NFPA417)
- American Welding Society (AWS)
- Steel Structures Painting Council
- (SSPC)
- Society of Automotive Engineers (SAE)

GENERAL ARRANGEMENT

AviaSafe is designed to extend from an elevated terminal departure lounge doorway (or, with modification, from ground level) to the aircraft boarding door enabling passengers to walk between the two, completely protected from atmospheric conditions, aircraft engine blast, and blown dust.

The Apron Drive Bridge consists of the following (in order progressing from the terminal towards the aircraft):

- Rotunda and Corridor
- Tunnel Sections
- Drive Column
- Service Door, landing
- Cab Bubble, Cab and Aircraft Closure Models.



MODELS

AviaSafe offers a number of AviaBridge models. Models can be grouped into two categories:

- Two-Tunnel (T2)
- Three-Tunnel (T3)

PBB models can serve any commercial jet aircraft in operation today.

The elevation of the rotunda (to match the height of the terminal departure lounge doorway) could affect the ability of bridge to serve all aircraft.

AviaBridge models are determined by the measured length of the bridge from the center of the rotunda to the end of the cab spacer at full retraction and full extension.

The T2-18/33 model, for example is a two- tunnel AviaBridge measuring 13.5 meter at full retraction and 18 meter at full extension.

TYPE	Fully Extended	Fully Retracted	Travel	Max OP Limit	Max OP Limit
T2-18/13	18.0m	13.5m	4.5m	17.1m	14.4m
T2-21/15	21.0m	15.0m	6.0m	20.1m	15.9m
T2-24/16	24.0m	16.5m	7.5m	23.1m	17.4m
T2-27/18	27.0m	18.0m	9.0m	26.1m	18.9m
T2-30/19	30.0m	19.5m	10.5m	29.1m	20.4m
T2-33/21	33.0m	21.0m	12.0m	32.1m	21.9m
T2-36/22	36.0m	22.5m	13.5m	35.1m	23.4m
T2-39/24	39.0m	24.0m	15.0m	38.1m	24.9m
T2-42/25	42.0m	25.5m	16.5m	41.1m	26.4m
T2-45/27	45.0m	27.0m	18.0m	44.1m	27.9m

TYPE	Fully Extended	Fully Retracted	Travel	Max OP Limit	Max OP Limit
T3-20/11	20.0m	11.5m	8.5m	18.4m	12.4m
T3-23/13	23.5m	13.0m	10.5m	21.9m	13.9m
T3-27/14	27.0m	14.5m	12.5m	25.4m	15.4m
T3-30/16	30.5m	16.0m	14.5m	28.9m	16.9m
T3-34/17	34.0m	17.5m	16.5m	32.4m	18.4m
T3-37/19	37.5m	19.0m	18.5m	35.9m	19.9m
T3-41/20	41.0m	20.5m	20.5m	39.4m	21.4m
T3-44/22	44.5m	22.5m	22.5m	42.9m	22.9m