

# PBB

Passenger Boarding Bridge





▶ **APPLICATIONS**

Apron Docking & Boarding

▶ **DESIGN PARAMETERS**

Dimensional Characteristics :

Minimum dimensions for all two-tunnel and three-tunnel Apron Drive Bridges :

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 tempratures from °20-C to °50C

▶ **POWER REQUIREMENTS**

380 VAC , 3 Phase , 50 Hz

▶ **COMPLIANCES**

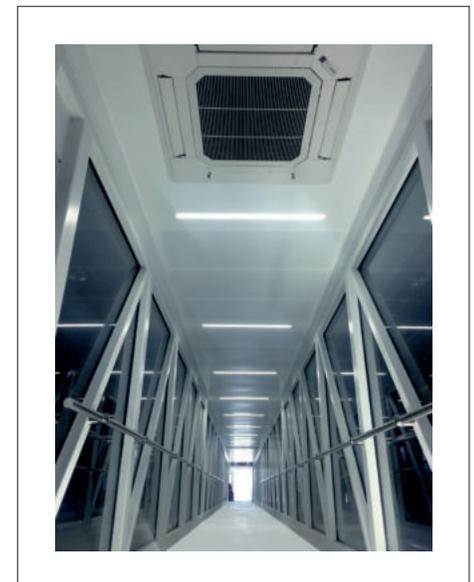
- International Civil Aviation Organization (ICAO) and in particular Annex 14
- Federal Aviation Administration (FAA) AC No. 150/5220-21C
- American Society of Testing Materials (ASTM)
- International Electric Committee (IEC)
- US National Electrical Manufactures Association (NEMA)
- US National Fire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

▶ **GENERAL ARRANGEMENT**

Tolid Malzoomat Bargh (TMB) Apron Drive Bridge 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) :

- A . Rotunda and Corridor
- B . Tunnel Sections
- C . Drive Column
- D . Service Door, landing
- E . Cab Bubble, Cab and Aircraft Closure Models.





► **MODELS**

TMB offers a number of Apron Drive Bridge models. Models can be grouped into two categories :

- A . Two-Tunnel (TB2)
- B . Three-Tunnel (TB3)

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.

Apron Drive Bridge 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 TB2-18/33 model, for example is a two tunnel Apron Drive 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
TB2-18/13	18.0m	13.5m	4.5m	17.1m	14.4m
TB2-21/15	21.0m	15.0m	6.0m	20.1m	15.9m
TB2-24/16	24.0m	16.5m	7.5m	23.1m	17.4m
TB2-27/18	27.0m	18.0m	9.0m	26.1m	18.9m
TB2-30/19	30.0m	19.5m	10.5m	29.1m	20.4m
TB2-33/21	33.0m	21.0m	12.0m	32.1m	21.9m
TB2-36/22	36.0m	22.5m	13.5m	35.1m	23.4m
TB2-39/24	39.0m	24.0m	15.0m	38.1m	24.9m
TB2-42/25	42.0m	25.5m	16.5m	41.1m	26.4m
TB2-45/27	45.0m	27.0m	18.0m	44.1m	27.9m

TYPE	Fully Extended	Fully Retracted	Travel	Max OP Limit	Max OP Limit
TB3-20/11	20.0m	11.5m	8.5m	18.4m	12.4m
TB3-23/13	23.5m	13.0m	10.5m	21.9m	13.9m
TB3-27/14	27.0m	14.5m	12.5m	25.4m	15.4m
TB3-30/16	30.5m	16.0m	14.5m	28.9m	16.9m
TB3-34/17	34.0m	17.5m	16.5m	32.4m	18.4m
TB3-37/19	37.5m	19.0m	18.5m	35.9m	19.9m
TB3-41/20	41.0m	20.5m	20.5m	39.4m	21.4m
TB3-44/22	44.5m	22.5m	22.5m	42.9m	22.9m

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