



TOSHIBA Standard Type  
TC series

# Moving Walk

## Safety Cautions

- Observance of relevant laws / regulations are required.
- Read the entire “Instruction Manual” carefully before use, for important information about safety, handling and operation.



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TOSHIBA ELEVATOR AND BUILDING SYSTEMS CORPORATION

# THE SOLUTIONS

## COMPANY SOLUTIONS

Toshiba Elevator and Building Systems Corporation has built a framework which encompasses all aspects from system development to production, sales to marketing, installation, adjustment, maintenance and services in order to provide clients with the highest quality products and services.

Utilizing the comprehensive technological infrastructure developed by Toshiba Group in more than 140 years since its foundation, we aim to enhance the leading edge technology and quality that we used to develop the ultra high speed elevator, harnessing Toshiba's technological innovations to their fullest extent. To meet clients' expectations and requirements for safe and pleasant elevators as well as constantly pursuing further innovation and improvement. Furthermore, we are aiming to strengthen system development, production, enhancing sales channel and sales partnership to expand in the global market.



## The concept of Moving Walk

Through year of experience for escalator technology, "Moving Walk" has brought about enjoyable gliding comfort.

Toshiba Moving Walk carries passengers safely, rapidly and comfortably as the means of transportation for a new age. Toshiba's moving walk has a efficient power driving system and pleasant riding quality with simple design, which produces a relaxed and easy feeling with an extensive prospect.



Basic specifications

Typical specification

Type		Step width (mm)	Angle of inclination	Rated speed (m/min)	Theoretical capacity (persons/h)	Application truss height (mm)	Motor capacity (kw)	Heat generation (kJ/h)
S1000	ARC-12°-SD	1000	12°	30	6000	3000 to 4220	5.5	3495
						4247 to 5883	7.5	4765
						5911 to 9015	Ask for Detail	
S800	ARC-12°-SD	800	12°	30	4800	3000 to 5550	5.5	3495
						5578 to 5594	7.5	4765
S1000	ARC-0°-SD	1000	0°		6000	36310 or less * Full truss length	5.5	3495

\* The above application table based on GB16899-2011.  
\* Moving walk has other than the above specifications, such as those with a speed of 40m/min or an inclination not exceeding 12° degrees, can also be supplied. For further details as well as the specifications other than the standard ones, please contact Toshiba.

General specification

Item	Assumption	Optional Specification
Application	TC series moving walk	
Control type	Single speed	Automatic operation with low speed and stop by stand-by mode (without poles type.) is optional specifications.
Temperature	0°C or more, 40°C or less	
Humidity	Monthly av. 90% or less Daily mean 95% or less, No dew drop	
Power supply	For main power: Three phase AC. 380V-50Hz	Three phase AC. 380V-60Hz, AC.400V-50Hz, AC.415V-50Hz, AC.440V-50Hz
	For lighting: Single phase AC. 220V-50Hz * Note 1	Single phase AC. 220V-60Hz, AC.230V-50Hz, AC.240V-50Hz
Voltage tolerance for main power	±10% or less in machine room terminal.	
Voltage unbalance factor	5% or less	
Frequency tolerance	±5%	
Voltage tolerance for lighting	±5% or less in machine room terminal.	
Installation place	Sheltered indoor spot	Outdoor type is not applicable
Corrosive gas	Don't exist	* Note 2
Explosive gas	Don't exist	
Dust	Excessive dust must not exist	0.3 mg/m3 or less
Influence salt	Don't exist	Quantity of sea salt particle NaCl 0.003mg/day/100cm2 or less

Note 1: When supplying lighting and inspection source from power source, need a step-down transformer.  
Note 2: SO3: 0.02mg/day/100cm2 or less, NO2: 0.02mg/100cm2 or less, Cl: 0.006mg/day/100cm2 or less, NH4+: 0.02mg/day/100cm2 or less.

Handrail

Selected the most suitable color from seven available color variations to match the building use and design concepts.

STANDARD

Black color



Black

OPTIONAL

Other six color



Gray



Brown



Blue



Red



Orenge



Green

Exterior specifications

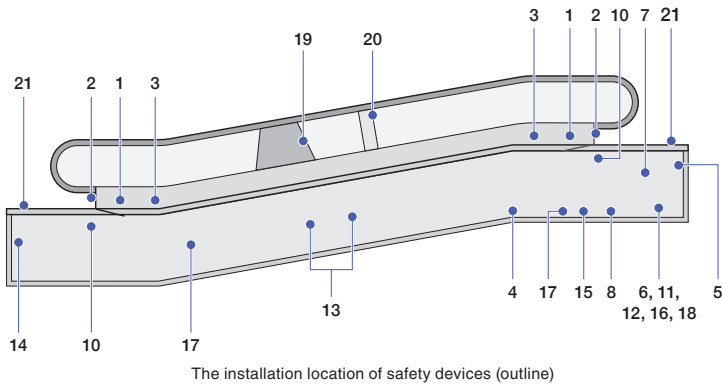
○ : STANDARD    △ : OPTIONAL

	Item	Specification	Application	Remarks
Balustrade	Interior panel	Tempered glass : Clear color (10t) Right angle layout	○	* Note 3
	Deck board	Stainless steel hair-line finish (1.5t)	○	
	Skirt guard panel	Sheet steel with black fluororesin coating. Stainless steel hair-line finish	○ △	* Note 5
	Handrail	Synthetic rubber (SBR type) : Black color	○	
Pallet	Tread	Aluminium alloy die-cast : Silver color	○	
	Demarcation line	Only both side : Yellow color	○	
Landing	Landing plate	SS430 pressed groove : without color SS430 etching groove : without color	○ △	
	Comb	Aluminium alloy die-cast : Silver color	○	
Lighting	Balustrade lighting	LED lamp	△	* Note 4
	Comb lighting	LED lamp	△	
	Under pallet lighting	LED lamp	△	

Note 3: Right angle  
Note 4: Balustrade lighting for moving walk is not standardized option.

Note 5: Provided skirt-brush for skirt guard manel is optional specifications.

Safety facilities



The installation location of safety devices (outline)

○ : STANDARD    △ : OPTIONAL

No.	Device name	Application
1	Emergency stop button (Built-in operation panel)	○
2	Handrail inlet safety device	○
3	Comb safety device	○
4	Handrail speed monitoring device	○
5	Electric-circuit protection device	○
6	Electromagnetic brake	○
7	Broken drive-chain detective device	○
8	Pallet drop out detective device	○
10	Pallet cover	○
11	Over speed and reverse operation monitoring device	○
12	Motor overheat protection device	○
13	Pallet sag safty device	△
14	Broken pallet chain detection device	○
15	Auxiliary brake	△
16	Stopping distance detector	○
17	Pallet missing detector	○
18	Brake release checking device	○
19	Running up prevention device	△
20	Emergency stop button (Note 6)	△
21	Landing plate switch	○

\* The above application table based on GB16899-2011, CP-15:2004  
Note 6: This device provide when a shutter or a fireproof gate are installed in front of a landing place, and when getting on and off to moving walk is barred.

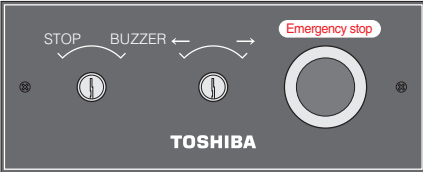


Operation panel

\* Included Emergency stop button

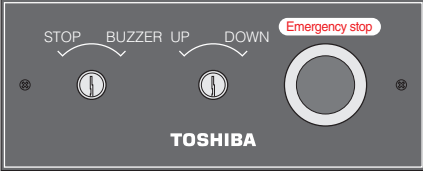
Flat type

For left side of drive unit side.



Slope type

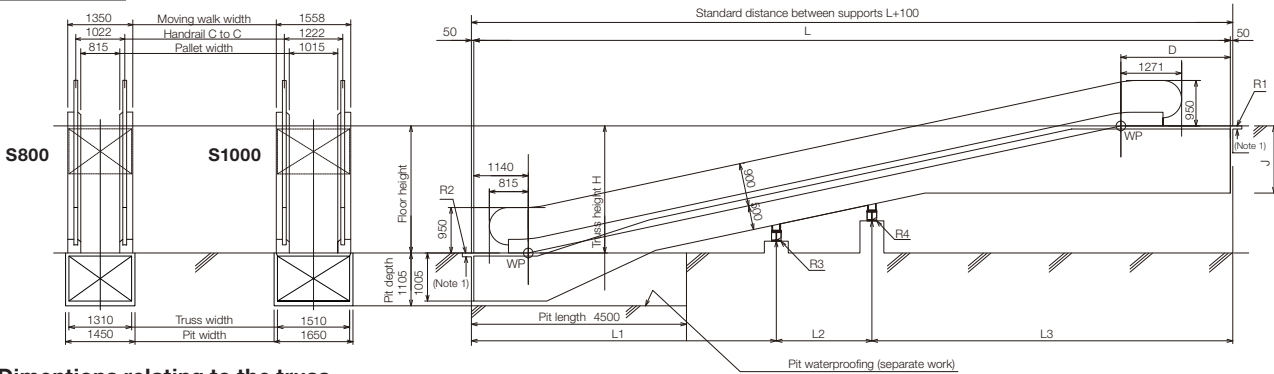
Upper floor





■ Installation design plan

Slope type



Dimintions relating to the truss

Slope type	S1000		S800
Moving walk width (mm)	1558		1350
Handrail width (mm): C to C	1222		1022
Pallet width (mm)	1015		815
Truss width (mm)	1510		1310
Pit width (mm)	1650		1450
Pit depth (mm)	1105		1105
Pit length (mm)	4500		4500
Floor height (mm)	2972 to 5883	5884 to 9015	2972 to 5994
Truss height (mm) [H]	3000 to 5883	5911 to 9015	3000 to 5994
Upper truss length (mm) [D]	1790	2290	1790
Upper truss depth (mm) [J]	1105	1405	1105
Total plan length of truss (mm) [L]	4.7046H + 2930	4.7046H + 3430	4.7046H + 2930

Reaction value at support (Slope type S1000)

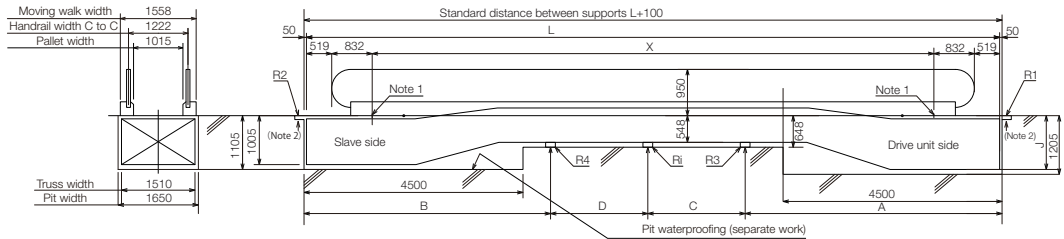
Floor height (mm)	2972 to 9015						
Truss height (mm) [H]	3000 to 4053		4081 to 5994			6022 to 9015	
Mid-support position (mm) [L1]	9295	10078	10860	9295	10078	10860	* Note 1
Mid-support position (mm) [L2]	—		7043	8607	9390	10123	* Note 1
Reaction value (N) [R1]	63800		77000			* Note 1	
Reaction value (N) [R2]	41500		61600			* Note 1	
Reaction value (N) [R3]	100600		96200			* Note 1	
Reaction value (N) [R4]	—		102600			* Note 1	

\*Note1: Please contact to our local distributor to details of truss height over 6022mm in length.

Slope type S1000

Slope type S800 is similar to the above of S1000, but it is not applicable floor height 5995mm to 9015mm (truss height 6022mm to 9015mm).

Flat type



Dimintions relating to the truss

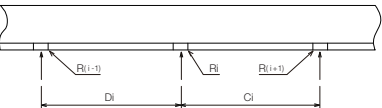
Flat type	S1000
Moving walk width (mm)	1558
Handrail width (mm): C to C	1222
Pallet width (mm)	1015
Truss width (mm)	1510
Pit width (mm)	1650
Pit depth (mm)	1105
Pit length (mm)	4500
Driving Unitside truss length (mm) [D]	1790
Driving unit side truss depth (mm) [J]	1105

Reaction value at support (Flat type S1000)

Total plan length of truss (mm) [L]	[X] + 2702
Mid-support position (mm) [A]	$5000 \leq A \leq 8000$
Mid-support position (mm) [B]	$5000 \leq B \leq 8000$
Mid-support position (mm) [Ci]	$2400 \leq Ci \leq 8000$
Mid-support position (mm) [Di]	$2400 \leq Di \leq 8000$
Reaction value (N) [R1]	$34000 + 5.0 \times (A - 5000)$
Reaction value (N) [R2]	$28000 + 3.2 \times (B - 5000)$
Reaction value (N) [R3]	$40000 + 3.4 \times (A - 5000) + 4.2 \times (C - 24000)$
Reaction value (N) [R4]	$33000 + 3.6 \times (B - 5000) + 4.2 \times (D - 24000)$
Reaction value (N) [Ri]	$4.2 \times (Ci + Di)$

\*Note 1: This point indicates inter section of comb and pallet trad.

\*Note 2: In case of six or more points support, refer to following drawing for "Ri"

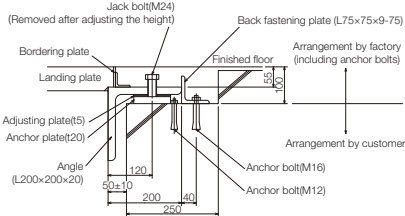
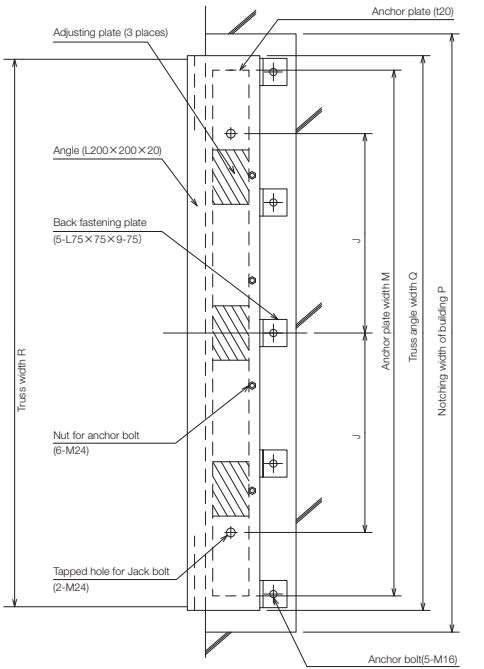
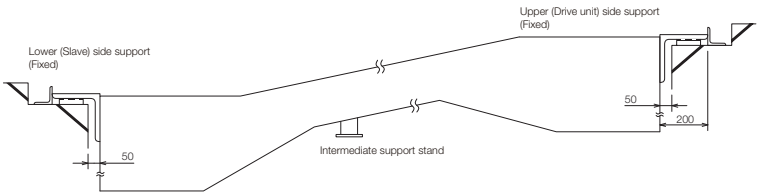


■ Detail of supports

The upper fllor side (driving unit side) and lower floor side (slave side) are both fixed structure in support of moving walks.

Type	P	M	Q	R	J
S800	1450	1250	1330	1310	450
S1000	1650	1450	1530	1510	550

Unit: mm



■ Works by others

Works not included in installation contract

- Any structual works such as opening floors for accommodating the escalators, or installation of necessary support beams.
- Finishes for peripheral architecture after installatio.
- Pit waterproofing work.
- Installation of handrails, fences, or other safety features around the movingwork.
- Moving walk truss exterior cladding work ; bottom illumination work. (A though these are not included within the scope of the standard intallation contract, such custmizations are possible upon request at additional costs.)
- Installation of fire protection shutters, sprinklers, and other buildingsafety features.
- Building electrical works such as the installation of main power cable, lighting cable, inspection power cable, and grounding wire leading up the moving walk machine room.
- Other peripheral wiring works, such as wiring to interlock moving walk circuit with fire shutter system (or other building safety systems), or wiring connections between moving walk and various peripheral systems.
- Worker locker rooms, material stock yard, and like peripheral facilities necessary for the duration of the installation works.
- Power supply, scaffolding, and other basic facilities necessary during installation and adjustment works.
- Installation of wedge guard plates that are necessary wherever the moving walk intersects with the ceiling, or wherever two moving walks intersect.
- Any other architectural works such as the installation of partitions or fences around landings.

■ Note

When asking for an estimate, please inform us of the following:

- Name and address of your building.
- Type of moving walk that you would like to install.
- The total number of floors, and the height of each floor, where the moving walks are to be installed.
- The voltage and frequency of the main power supply, along with the voltage and frequency of power supplies to be used for lighting inspection.
- Desired color of the handrails.
- Whether the truss requires exterior cladding work. Whether bottom illumination work is necessary.
- Whether the moving walk circuit to be intelocked with fore protection system, or other peripheral circuitry.
- Desired completion date.