

**MOVING
WALKS**

MOVING WALKS
J1200 INCLINED

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"People and Environment-Friendly" Moving Walks to Meet Modern Pedestrian Traffic Needs

Mitsubishi J-type Inclined Moving Walks are designed to carry people smoothly and comfortably. The "terminal drive system" incorporates technology from our highly rated J-type escalators to deliver high levels of quality and reliability. Mitsubishi J-type Inclined Moving Walks offer ideal solutions for the needs of pedestrian traffic, in a variety of commercial facilities such as grocery stores and shopping malls.



The Advantages of Terminal-Drive J-Type Inclined Moving Walks

The J-type Inclined Moving Walks operate at a comfortable walking speed and provide a smooth and comfortable ride to passengers on slopes with a moderate inclination. All passengers, including those with shopping carts, baby strollers, the aged or those in wheelchairs, can ride in comfort.

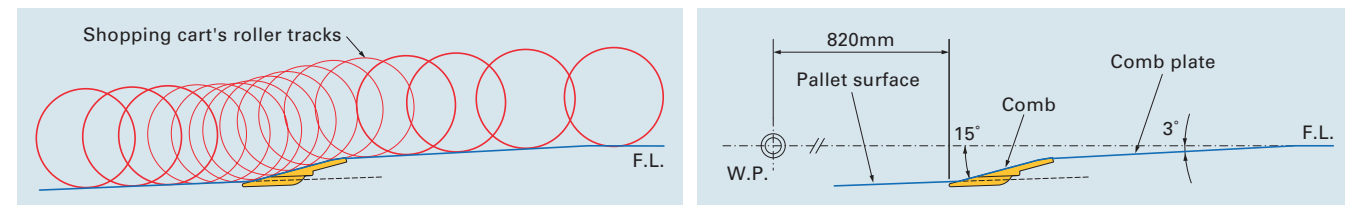
See "Wheeled Devices on Moving Walks" on page 6.

- Comfortable** The inclination at boarding and landing is very moderate
- Stronger Comb Teeth for Longer Life** The die-cast aluminum teeth offer greater durability
- Rigid Pallet with Greater Anti-slip Performance** The die-cast aluminum pallets provide greater rigidity with increased surface notches to enhance anti-slip performance
- Floorplate with Anti-slip Performance** The floorplate incorporates a surface anti-slip pattern
- More Comfortable, Quiet Ride** The pallets are designed to lower noise and vibration

Inclination at Boarding and Landing

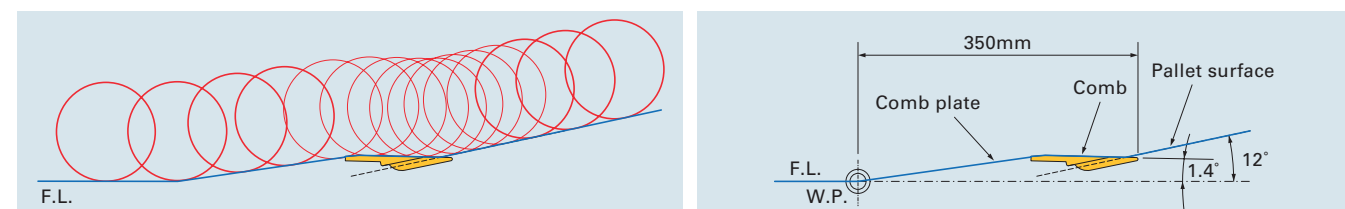
Upper End

- Going up - The comb angle is designed to be 15° to the horizontal, to make it easier to push a shopping cart over the comb when landing.
- Going down - The comb plate angle is designed to be 3° to the horizontal, to prevent a fully loaded shopping cart from running downwards when boarding.



Lower End

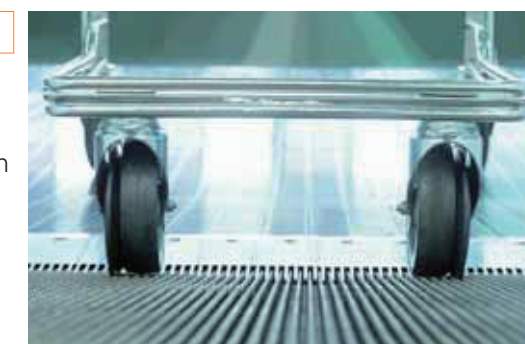
- Going up - The comb plate is designed to be 350mm long, to make it easier to push a shopping cart over the comb plate when boarding.
- Going down - The minimal comb angle is designed to be 1.4° to the horizontal. This delivers an outstandingly smooth landing with a shopping cart over the comb when landing.



Comb

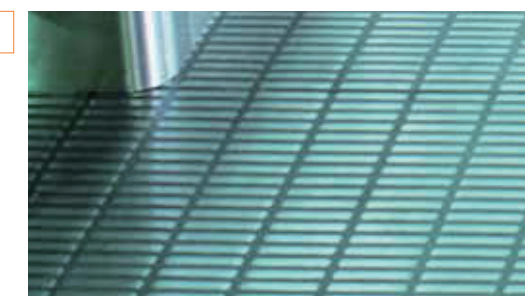
- Each comb is made of die-cast aluminum, rigidly fixed to improve strength and durability.
- Each comb tooth is 3.2mm thick to provide sufficient strength so that the combs are more durable against repeated impact of shopping carts.

See "No Foreign Objects on Moving Walks" on page 6.



Floorplate

- The stainless steel plate with anti-slip pattern, originally developed by Mitsubishi for its escalators, realizes anti-slip performance.



Pallet

- Die-cast aluminum provides greater durability.
- Numerous 3mm deep, 5mm long notches on the pallet surface enhance anti-slip performance.
- The long (approx. 410mm) pallet reduces the sense of unsure footing that can occur with a short pallet at the curved portion immediately before landing or after boarding at the upper end.
- Each pallet is fitted with resin bushes to reduce vibration and noise, and thereby improve riding comfort.



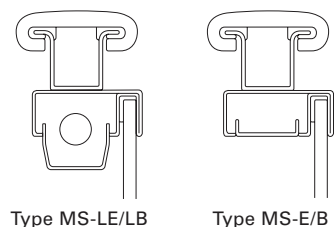
SPECIFICATIONS J-Type Inclined Moving Walks

Standard Specifications

Type	1200
	MS-LE/LB, MS-E/B
Use	General use
Environment	Indoor
Application code	JAPAN/EN115
Width of pallet (mm)	1006
Width of Moving Walk (mm)	1550
Width between handrails (mm)	MS-LE/LB, MS-E/B
	1280
Width between skirt panels (mm)	1010
Carrying capacity (persons/hour)	9000
Speed (m/min)	30
Inclination angle (degree)	12
Maximum rise (mm)	6500

Standard Safety Features

Key operated start switches with buzzer
Emergency stop buttons
Speed governor (Moving Walks speed governor)
Broken pallet-chain device (Pallet-chain safety device)
Broken drive-chain device (Drive-chain safety device)
Reversal stop device (Moving Walks speed governor)
Pallet level device (Option for JAPAN code)
Handrail entry device (Inlet guards)
Comb-pallet impact device (Option for JAPAN code)
Anti-slip pallet
Anti-slip floorplate
Overload protection



Operation Feature (Option)

Automatic operation (Post type)

Finishes

Type	MS-E/B		MS-LE/LB
Balustrade	Interior panel	Standard	Vertical, flat, clear rectangular 8mm tempered-glass panel
		Option	Vertical, flat, clear rectangular 10mm tempered-glass panel
			Vertical, flat, clear parallelogram 8 or 10mm tempered-glass panel
	Deckboard		Hairline-finished stainless steel plate
	Skirt guard	Standard	Hairline-finished stainless steel plate
		Option	Black resin coating with a low friction coefficient
Illumination	Standard	None	Under handrail lighting
	Option		Pallet demarcation light / Comb light
Handrail color	See page 4		
Guardrail	Stainless steel		
Pallet	Standard	Die-cast aluminum alloy with black painted groove	
	Option	With painted demarcation cleat See page 4 for the actual color	
Floorplate	Comb	Die-cast aluminum alloy	
	Comb plate, landing plate, manhole cover	Standard	Stainless steel plates with anti-slip pattern
Option		Stainless steel plates with anti-slip pattern, full coverage floorplate	

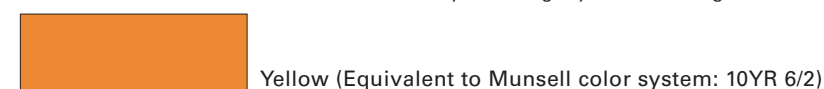
Color Samples for Moving Handrails*

*The actual color of the moving handrails may differ slightly from the image shown due to printing limitations.

Standard				
	Black (No.001)	Vermilion (No.502)	Red (No.503)	Yellow (No.504)
Option				
	Green (No.505)	Blue (No.506)	Gray (No.507)	Brown (No.508)
Option				
	Royal red (No.509)	Royal green (No.510)	Beige (No.511)	Black as dark gray tone (No.501)

Optional Color for Demarcation Cleats*

*The actual color of the demarcation cleats may differ slightly from the image shown due to printing limitations.



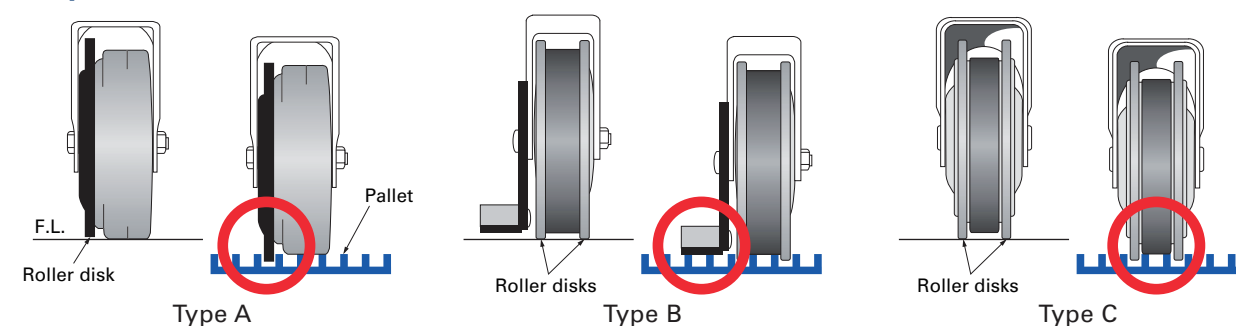
1 Essential Shopping Cart Requirements

- All shopping carts to be used on Moving Walks must have four wheels. All four wheels must have a brake mechanism similar to "Examples of Brake Mechanism" shown below. ALL WHEELS MUST BRAKE AUTOMATICALLY WHEN ROLLED ONTO THE PALLET.
- All roller disks, not only those on the two wheels on either side, must fit into the grooves between the pallet cleats as shown in "Pallet Section" below.
- The weight of a loaded shopping cart must not exceed 780N.

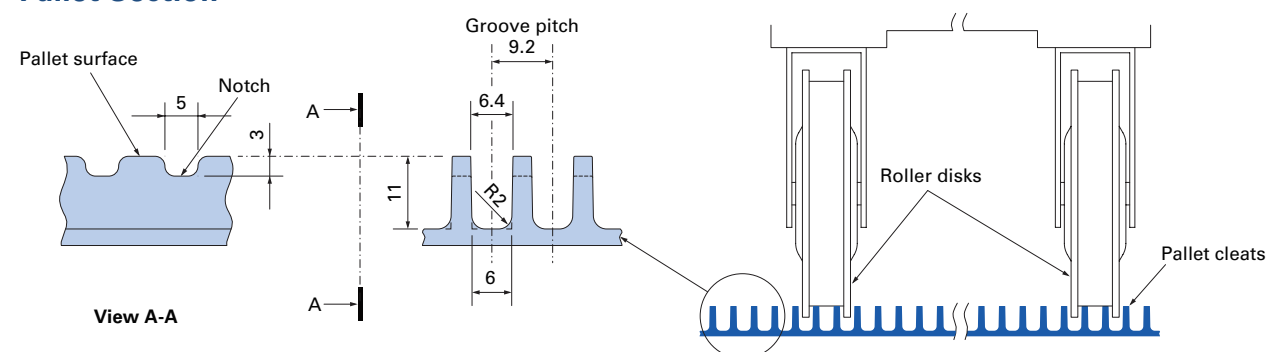
2 Confirmation by Test

Before starting the operation of Moving Walks for public use, it is essential to ensure by actual tests using loaded shopping carts in both up and down directions that: 1) the carts are easily pushed onto the pallet from the floorplate when boarding; 2) the brakes are fully functional through the entire travel on the pallets from boarding to landing; and 3) the carts smoothly roll over the comb from the pallet when landing.

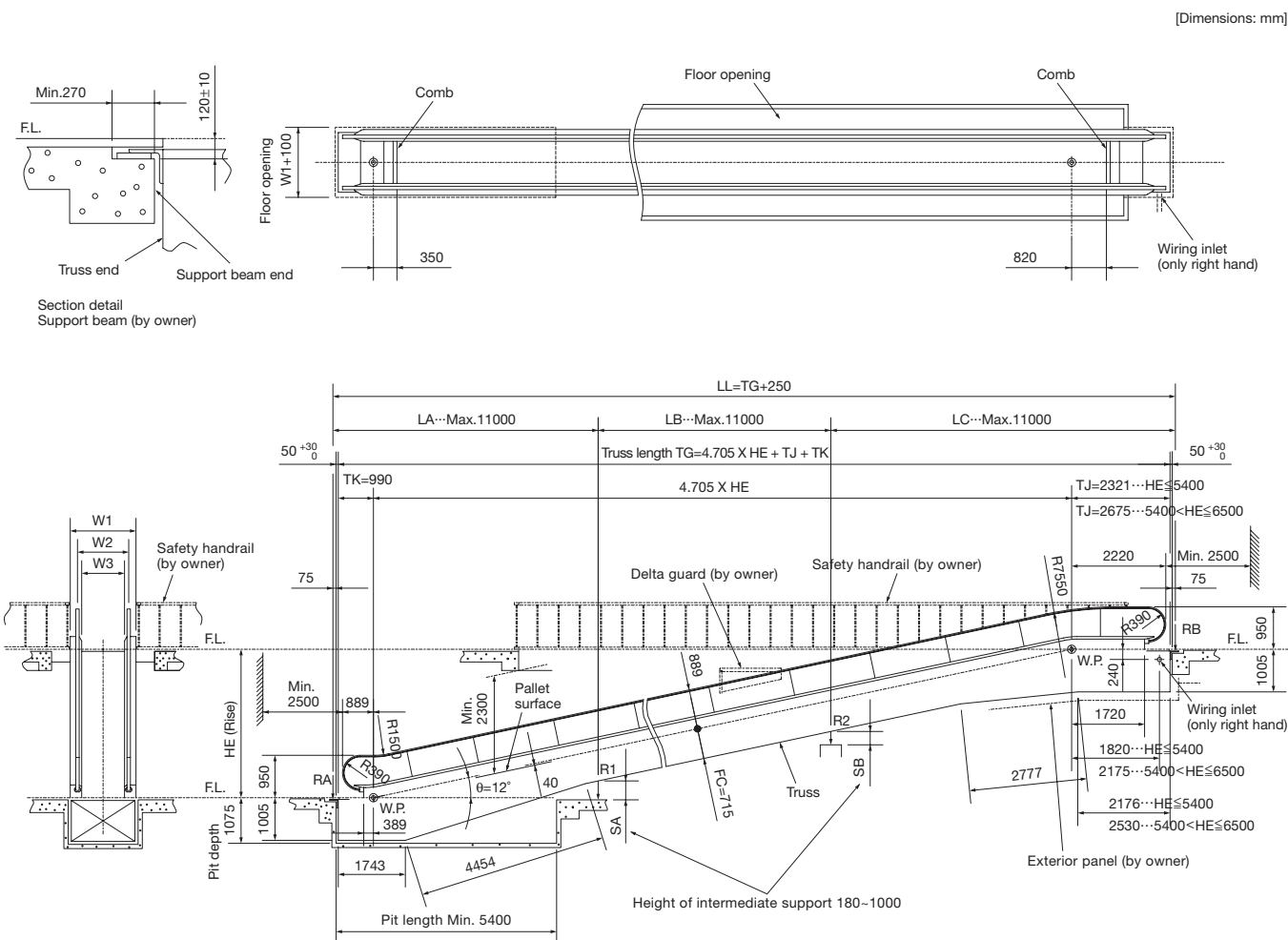
Examples of Brake Mechanism (All brake automatically on boarding the pallet)



Pallet Section



STANDARD INSTALLATIONS J-Type Inclined Moving Walks



Dimensions (mm)

Type	1200	
	MS-LE	MS-E
Width of Moving Walk	W1	1550
Width between moving handrails	W2	1280
Width between skirt panels	W3	1010

Static load on beam (N) (Dimension: mm)

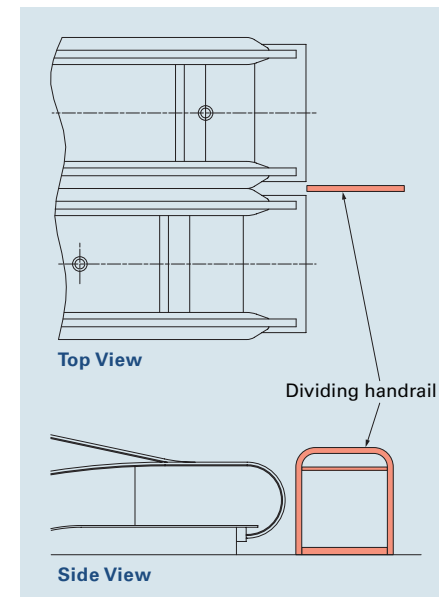
RA	$\alpha \cdot LA$
RB	$\alpha \cdot LC + \beta \cdot (TJ - 1204) / LC$
R1	$\alpha \cdot (LA + LB)$
R2	$\alpha \cdot (LB + LC) + \beta \cdot (TJ - 1204) / LC$

Static load factors

α (N/mm)	β (N)
5.0	7850

Points to Note with Layout

- Please provide sufficient space in each Moving Walk boarding and landing area in order to ensure smooth traffic flow. This is particularly important for passengers with shopping carts so that they can board or land directly in front of the Moving Walks. Obstacles in this area may interfere with traffic and cause passenger congestion.
- For parallel or crisscross arrangements of Moving Walks, it is recommended to install a dividing handrail nearby the handrails on each floor as shown in the figure to the right, to facilitate smooth traffic for the passengers with shopping carts.



Ordering Information

Please include the following information when ordering or requesting estimates.

- Name and address of building or project
- Type of Moving Walks desired
- Rise (HE) and distance (TG+100mm) between support beams
- Number of units
- Voltage and frequency of power source
- Optional items desired

Works Not Included in Installation Contract

The following items are excluded from Mitsubishi's Moving Walks installation works.

- External finish work on Moving Walks
- Intermediate support beam
- Pit construction, waterproofing and other architectural works
- Wiring and conduits for the main power and lighting to the control panel installed on a truss
- Grounding wires and conduits
- Confirmation tests of shopping carts specified on page 4 of this brochure

Wheeled Devices on Moving Walks

⚠ Wheeled devices such as wheelchairs, shopping carts and baby strollers may run downwards during a ride on Moving Walks unless preventive measures are taken.

- In order to prevent wheeled devices from accidentally running downwards;
 - (1) shopping carts to be used for Moving Walks must fully satisfy the essential requirements and be tested for the confirmation items provided on page 4 of this brochure;
 - (2) wheelchair users without attendants must lock the wheels by brakes or hold the wheels with their hands during rides on Moving Walks;
 - (3) those with baby strollers must hold the handles of the strollers during rides on Moving Walks.

No Foreign Objects on Moving Walks

Ensure that no foreign objects, such as grit and stones, are allowed on the surface of the Moving Walks since they can damage the pallet cleats and comb teeth.

