

November 2022

TSASK ESCALATOR INSPECTION & TEST FREQUENCY

Category 1 Testing Procedures Guide

In recent years, TSASK has observed a dramatic increase in escalator component failures resulting in extensive repair costs and escalator downtime for individual escalator owners.

These failures and resulting damage are due to several factors, including less maintenance, reduced maintenance inspection frequencies, extended timeframes for specific safety component testing, and delayed scheduled routine maintenance checks.

In order to reduce the potential risk to the general public, TSASK is issuing this safety directive to all escalator owners requiring them to schedule, with their licensed elevator contractor, a more frequent external/internal escalator maintenance and inspection program, including the required annual Safety Code Category #1 periodic tests applicable to escalators.

The owner shall ensure that the following maintenance schedule is conducted upon each licensed escalator:

- All external escalator and operational maintenance checks are required to be performed on a minimum monthly basis.
- The internal escalator checks of all safety-related equipment and components are required to be completed a minimum of every two months.
- All current and future inspection test records are to be posted within the escalator controller area for TSASK inspection verification.

In order to ensure that all escalator safety checks and safety tests have been conducted recently, the attached Escalator Test Record is to be completed by your elevator maintenance contractor, and this record must be submitted to TSASK by July 1, 2023. Thereafter, this Escalator Test Record shall be submitted to TSASK annually by the licensed elevator contractor. The owner is responsible for ensuring these checks and tests are submitted to our office by the due date above.

We thank you for your cooperation in scheduling these safety inspections and tests and trust that this process will reduce the number of incidents that have been reported lately to our office.



Robin Santos

Elevator and Amusement Ride Manager

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ESCALATOR/MOVING WALK TEST RECORD

Inspection & Tests

Send to: elevatordesign@tsask.ca

Building Name	Address	City	Licence #
Escalator Manufacturer	Rated Speed	Step Width	High or Low Deck Balustrade
Elevator Contractor Performing Tests	Signature	Date Checked/Tested	

Category 1 Area/Device	Section/Clauses: B44-2013 Items: A17.2-2012	Condition/Results/Data	Corrective Action? Y/N	Mechanic Initials & EDM #	Date
Machine Space	8.6.8.15.1 [Items 8.1 & 10.1]				
Stop Switches	8.6.8.15.2 [Items 8.2 & 10.2]				
Controller, Disconnects and Wiring	8.6.8.15.3 [Items 8.3 & 10.3]				
Drive Machine and Brake	8.6.8.15.4 [Items 8.4 & 10.4]				
Brake Torque	Indicate Min/Actual/Max as Applicable				
Stopping Distance	Indicate Min/Actual/Max as Applicable				
Speed Governor	8.6.8.15.5 [Items 8.5 & 10.5]				
Broken Drive-Chain Device	8.6.8.15.6 [Items 8.6 & 10.6]				
Reversal Stop Switch	8.6.8.15.7 [Items 8.7 & 10.7]				
Broken Step-Chain/Treadway Device	8.6.8.15.8 [Items 8.8 & 10.8]				
Step Upthrust Device	8.6.8.15.9 [Items 7.9 & 8.9]				
Missing Step or Pallet Device	8.6.8.15.10 [Items 8.10 & 10.10]				
Step or Pallet Level Device	8.6.8.15.11 [Items 8.11 & 10.11]				
Steps, Pallets, Step or Pallet Chains, and Trusses	8.6.8.15.12 [Items 8.12 & 10.12]				
Handrail Safety Systems	8.6.8.15.13 [Items 8.13 & 10.13]				
	Speeds: Treadway/LH/RH				
	Checkout Procedure [Items 7.3 & 9.3]				
Outdoor Application: Heaters	8.6.8.15.14 [Items 8.3 & 10.3]				
Permissible Stretch in Escalator Chains	8.6.8.15.15 [Item 7.9]				
Disconnected Motor Safety Device	8.6.8.15.16 [Items 8.6 & 10.6]				
Response to Smoke Detectors	8.6.8.15.17 [Items 8.15 & 10.15]				
Comb-Step or Comb-Pallet Impact Device	8.6.8.15.18 [Items 7.7 & 9.7]				
Step/Skirt Performance Index	8.6.8.15.19 [Item 7.17]				
Clearance Between Step and Skirt (Loaded Gap)	8.6.8.15.20 [Item 7.17]				
Inspection Control Devices	8.6.8.15.21 [6.1.6.2.2 & 6.2.6.2.2]				
Step Lateral Displacement Devices	8.6.8.15.22 [6.1.6.3.14]				
Seismic Risk Zones 2 or Greater	8.6.8.15.23 [Items 7.20.2 & 9.20.2]				
Maintenance of Seismic Devices	8.6.8.15.24 [See Manufacturer]				



Other Required Areas/Devices [Section 6: Design, 8.6: Maintenance/Repairs/Tests, 8.11: Periodic Inspections/Tests]					
*Skirt Deflector Devices	6.1.3.3.10				
Step Demarcation & Lighting	6.1.3.5.6 [Items 7.5.1, 7.9.3 & 8.1.2]				
Tandem Operation	6.1.6.6 & 6.2.6.6 [Items 7.10(c) & 9.10(c)]				
On-Site Documentation (MCP)	8.6.1.2.2				
Periodic Test Record (Test Tag)	8.6.1.7.2				
Combplates	8.6.8.4				
Caution Signage	8.6.8.8				
Annual Cleaning	8.6.8.13/8.6.9.11				
**Start-up & Training Logs	8.6.11.6				
Operating & Safety Devices	8.11.4.1 [Items 7.10 & 9.10]				
Guards/Antislide/Barricades	8.6.11.6.2(h)				
Skirt Obstruction Device	8.11.4.1 [Item 7.11]				
Skirt Obstruction Device to Combplate	Distance Measured: Lower/Upper				
Novetex Boards	As Per Manufacturers Specifications				
Maintenance Frequency	[Minimum: Quarterly]				

Completed Forms must be submitted **annually** to elevatordesign@tsask.ca no later than **July 1**.

Category 1 Area/Device	Section/Clauses: B44-2013 Items: A17.2-2012	Summary
Machine Space	8.6.8.15.1 [Items 8.1 & 10.1]	Pit equipment inspections
Stop Switches	8.6.8.15.2 [Items 8.2 & 10.2]	Inspection and testing of pit stop switches
Controller, Disconnects and Wiring	8.6.8.15.3 [Items 8.3 & 10.3]	Inspection of equipment
Drive Machine and Brake	8.6.8.15.4 [Items 8.4 & 10.4]	Inspection of equipment (includes driving chains)
Brake Torque	Indicate Min/Actual/Max as Applicable	Data
Stopping Distance	Indicate Min/Actual/Max as Applicable	Data
Speed Governor	8.6.8.15.5 [Items 8.5 & 10.5]	Inspection of equipment and test of operation/manual reset
Broken Drive-Chain Device	8.6.8.15.6 [Items 8.6 & 10.6]	Inspection of equipment and test of operation/manual reset
Reversal Stop Switch	8.6.8.15.7 [Items 8.7 & 10.7]	Inspection of equipment and test of operation/manual reset
Broken Step-Chain/Treadway Device	8.6.8.15.8 [Items 8.8 & 10.8]	Inspection of equipment and test of operation/manual reset
Step Upthrust Device	8.6.8.15.9 [Items 7.9 & 8.9]	Inspection and test of operation
Missing Step or Pallet Device	8.6.8.15.10 [Items 8.10 & 10.10]	Inspection of equipment and test of operation/manual reset
Step or Pallet Level Device	8.6.8.15.11 [Items 8.11 & 10.11]	Inspection of equipment and test of operation/manual reset
Steps, Pallet, Step or Pallet Chain, and Trusses	8.6.8.15.12 [Items 8.12 & 10.12]	Inspection of equipment
Handrail Safety Systems	8.6.8.15.13 [Items 8.13 & 10.13]	Inspection of equipment and test of operation
	Speeds: Treadway/LH/RH	Data
	Checkout Procedure [Items 7.3 & 9.3]	As applicable; separate documents
Outdoor Application: Heaters	8.6.8.15.14 [Items 8.3 & 10.3]	See requirements as applicable
Permissible Stretch in Escalator Chains	8.6.8.15.15 [Item 7.9]	Inspection and testing of equipment (step to step meshing)
Disconnected Motor Safety Device	8.6.8.15.16 [Items 8.6 & 10.6]	Inspection of equipment and test of operation/manual reset
Response to Smoke Detectors	8.6.8.15.17 [Items 8.15 & 10.15]	Simulate FAID shutdown after 15s
Comb-Step or Comb-Pallet Impact Device	8.6.8.15.18 [Items 7.7 & 9.7]	Inspection of equipment and test of operation/manual reset
Step/Skirt Performance Index	8.6.8.15.19 [Item 7.17]	Inspection of equipment and test of operation. Submit data to TSASK
Clearance Between Step and Skirt (Loaded Gap)	8.6.8.15.20 [Item 7.17]	Inspection of equipment and test of operation. Submit data to TSASK
Inspection Control Devices	8.6.8.15.21 [6.1.6.2.2 & 6.2.6.2.2]	Inspection and testing of pit inspection operation
Step Lateral Displacement Devices	8.6.8.15.22 [6.1.6.3.14]	Inspection of equipment and manual testing
Seismic Risk Zones 2 or Greater	8.6.8.15.23 [Items 7.20.2 & 9.20.2]	Verify as per code requirements
Maintenance of Seismic Devices	8.6.8.15.24 [See Manufacturer]	Verify as per manufacturer requirements

Other Required Areas/Devices [Section 6: Design, 8.6: Maintenance/Repairs/Tests, 8.11: Periodic Inspections/Tests]		
Skirt Deflector Devices – see the Foot Entrapment Bulletin for more information	6.1.3.3.10	Inspection of equipment
Step Demarcation & Lighting	6.1.3.5.6 [Items 7.5.1, 7.9.3 & 8.1.2]	Inspection of equipment
Tandem Operation	6.1.6.6 & 6.2.6.6 [Items 7.10(c) & 9.10(c)]	Test of operation
On-Site Documentation (MCP)	8.6.1.2.2	Verify all required documentation
Periodic Test Record (Test Tag)	8.6.1.7.2	Sign off when tag
Combplates	8.6.8.4	Inspection of equipment
Caution Signage	8.6.8.8 [Item 7.6]	Verify all required signage is in place
Annual Cleaning	8.6.8.13/8.6.9.11	Enter date of last annual clean down
Start-up & Training	8.6.11.6	Verify logs or have customer sign off on
Operating & Safety Devices	8.11.4.1 [Items 7.10 & 9.10]	Inspection and test of operating key switches and stop switches
Guards/Antislid/Barricades	8.6.11.6.2(h) [Item 7.8]	Inspection of equipment
Skirt Obstruction Device	8.11.4.1 [Item 7.11]	Inspection of equipment and test of operation
Skirt Obstruction Device to Combplate	Distance Measured: Lower/Upper	Data
Novetex Boards	As Per Manufacturers Specifications	Verify proper adjustment
Maintenance Frequency	[Minimum: Quarterly]	Data

Completed Forms must be submitted **annually** to elevatordesign@tsask.ca no later than **July 1**.