

Amendments to the Elevating Devices Code Adoption Document (CAD) 2020

TSSA would like to thank all individuals who participated in the consultation. There were 237 visitors to the consultation web page, 97 visitors reviewed or downloaded the attached documents, and 15 individuals submitted responses via the web page and email.

TSSA's final CAD amendments were guided by an analysis of evidence, national code considerations (current and future), and its overall safety mandate. Stakeholder feedback that did not align with these principles was not accepted in the final version of the CAD amendments. TSSA encourages stakeholders to propose changes to the national code committees for consideration in future editions.

Consultation Summary:

TSSA conducted consultations on the proposed CAD from Oct to Nov 2021. There were 15 respondents that provided feedback on a variety of issues.

As a whole, the feedback received did not impact the total number of Ontario specific amendments.

A summary of the consultation feedback is below:

- Adoption and in effect dates: TSSA will adjust the in-effect dates to be consistent with its practice of 6 months after publication, except where specified.
 - Respondents wanted an extension on the in-effect date to continue selling equipment under the old CAD. TSSA has declined the request, but as per its past practice will grandfather sales completed by the publication date under the old CAD.
- Video communication and safety: The new codes require video communication into the elevating device as a safety measure. A respondent was concerned about the privacy implications of the requirements. There is no requirement for the video to be on all the time or be recorded. The intent is to ensure that there is an additional way to assess the state of passengers in case of emergency, or if there is no response from the phone system in the car. This requirement is specific to new elevators – retrofits are not required.
- Key Control Access exemptions on Platform/Accessibility Lifts: A respondent was concerned about liabilities that may arise from removing key card access from platform/accessibility lifts and requested the requirement be removed. TSSA has declined the request since the intent is to improve accessibility for people with disabilities. Potential risks are to be identified and mitigated via a risk assessment study.
- Parking Garage Lifts: A respondent raised concerns on the lack of clarity and options around machine rooms and/or machine cabinets in the applicable codes. The CAD remedies this problem by allowing machine cabinets where the appropriate clearances are provided.

- Elevator Apron Clearances: A respondent requested the removal of the 1-inch clearance from the bottom of the hoist because it requires an Ontario specific skirt to be built. TSSA has declined the request considering that the standard depth of the hoist is 5 feet deep and easily meets the existing clearance requirement. This request for an “Ontario specific” design does not address a safety gap.

Code Adoption Summary

CAD Section	Codes adopted	Edition	Overview of changes
Part 3	ASME A17.1-2019/CSA B44-19 Safety Code for Elevators and Escalators	2019	Latest version of the code. Net reductions due to new code provisions and burden reduction.
	ASME A17.6-2017 Standard for Elevator Suspension, Compensation, and Governor Systems	2017	
	ASME A17.7-2007/CSA B44.7-07 Performance-based safety code for elevators and escalators	2007	
Part 4	CSA B311-02 (R2018) Safety Code for Manlifts	2002 (R2018)	1 material change and some minor editorial and formatting changes.
Part 5	CSA Z98-19, Passenger ropeways and passenger conveyors	2019	
Part 6	CSA Z185-M87(R2001), Safety Code for Personnel Hoists	1987 (R2001)	
	ANSI/ASSE A10.22 – 2007 Safety Requirements for Rope-guided and Non-guided Workers’ Hoist	2007	
	CSA Z256-M87(R2006), Safety Code for Material Hoists	1987 (R2006)	
	CSA B354.12-17 Design, calculations, safety requirements, and test methods for mast climbing transport platforms (MCTPs)**	2017	
	CSA B354.13-17/B354.14-17 Safe use and best practices for mast climbing transport	2017	

	platforms (MCTPs) / Training for mast climbing transport platforms (MCTPs)**.		
Part 7	CSA B355:19 Platform lifts and stair lifts for barrier-free access	2019	
Part 8	ASME A17.8-2016 / CSA B44.8-16, Standard for wind turbine tower elevators	2016	
Part 9	BS EN 14010:2003+A1:2009 Safety of machinery - Equipment for power driven parking of motor Vehicles - Safety and EMC requirements for design, manufacturing, erection and commissioning stages**	2003+ 2009	

** These are new codes being adopted. Although they were included in the consultation document, they were not highlighted at the time as being new.

Ontario Specific Amendments* Summary

CAD	Existing Ontario Specific amendments	New Ontario specific amendments?
2013 Version	76	Yes. Sections: • 7.13
2022 Version	52	
Net change	- 24	

*An Ontario specific amendment is defined as any addition or deletion of rules and/or requirements from the national codes that are unique to Ontario.

Added (*Sections here refer to sections of the 2020 version of the Elevating Devices CAD)

- Clause 7.13: This clause now removes the obligation of owners to provide a supplementary report for accessibility devices. It now has a requirement to conduct a risk analysis which would allow owners to remove key-access restrictions.

Removed (*Sections here refer to sections of the 2013 version of the Elevating Devices CAD)

- The program area has removed a number of sections in the CAD due to a variety of reasons, including burden reduction and new Code requirements that make CAD changes redundant. One deletion removes “winding drum” devices as allowable technology in Ontario. The deletions are listed below.

Section	Removed elements
3.1.1 – Applied standards & Codes	c9, c10, c12, c13
5.6 – Safety considerations	5.6.3
6.12 – Up overspeed protection	6.12

6.19 – Operator training	6.19
6.20 – Operators Proof of Training	6.20
6.21 – Daily Operators Log	6.21
7.6 – Access to Lift	7.6
7.7 – Lift Operation with Persons Nearby	7.7
7.12 – Notice Regarding Usage	7.12
7.14 – Pressure Sensor	7.14

Consolidated:

- Applicable to Part 6 - Single point failure – this refers to electrical contacts without any redundancy built into it. The previous version of the CAD had multiple references to single point contacts that now require a redundancy built in to mitigate against electrical failure. The new version consolidates multiples sections into one, resulting in a net decrease of 3 sections.
- Applicable to Parts 4,5,6,7 and 8 - Maintenance & Log Books – Multiple Codes apply to multiple types of elevating devices. Non-B44 devices may not have the same maintenance and log-book requirements. The CAD introduces standardized requirements for maintenance and log-books for all non-B44 devices. The proposed CAD consolidates all the requirements into a single section, leading to a net decrease of 8 sections.