Comment | Commentaires

Document	NBC 2005	Document
Provision	3.1.13.7.(1) and (2); Table 3.1.13.7.	Exigence
Committee	Fire Protection	Comité
Minutes	CCR 124, 2.8.1.1, 3.8.2.1.,4.7.2. and 5.7.2.7Standing Committee on FP	Procès-verbaux

EXISTING PROVISION

3.1.13.7. High Buildings

1) Except as permitted by Sentences (2) to (4), the interior wall, ceiling and floor finishes in a *building* regulated by the provisions of Subsection 3.2.6. shall conform to the *flame-spread rating* requirements in Article 3.1.13.2. and to the *flame-spread rating* and smoke developed classification values in Table 3.1.13.7.

Table 3.1.13.7.
Flame-Spread Rating and Smoke Developed Classification in a High Building
Forming Part of Sentence 3.1.13.7.(1)

Location or Element	Maximum *Flame-Spread Rating*			Maximum Smoke Developed Classification		
	Wall Surface	Ceiling Surface(1)	Floor Surface	Wall Surface	Ceiling Surface(1)	Floor Surface
Exit stairways, vestibules to *exit* stairs and lobbies described in Sentence 3.4.4.2.(2)	25	25	25	50	50	50
Corridors not within *suites*	(2)	(2)	300	100	50	500
Elevator cars and vestibules	25	25	300	100	100	300
Service spaces and *service rooms*	25	25	25	50	50	50
Other locations and elements	(2)	(2)	No Limit	300	50	No Limit

Notes to Table 3.1.13.7.:
(1) See Article 3.1.13.4. for lighting elements.
(2) Other requirements of this Part apply.

2) Except for a *building* of Group B *major occupancy* and elevator cars, the *flame-spread rating* and smoke developed classification of interior wall, floor and ceiling finishes need not conform to the values in Table 3.1.13.7., provided the *building* is *sprinklered* throughout.

PROPOSED CHANGE

Replace Sentences 3.1.13.7.(1) and (2) and Table 3.1.13.7. as follows:

Other Code Provisions Affected: 3.1.13.11.-2010

3.1.13.7. High Buildings

1) Except as permitted by Sentences (2) to (4), the interior wall, ceiling and floor finishes in a *building* regulated by the provisions of Subsection 3.2.6. shall conform to the *flame-spread rating* requirements in Articles 3.1.13.2. and 3.1.13.11-2010 and to the *flame-spread rating* and smoke developed classification values in Table 3.1.13.7.

Table 3.1.13.7.
Flame-Spread Rating and Smoke Developed Classification in a High Building
Forming Part of Sentence 3.1.13.7.(1)

Location or Element	Maximum *Flame-Spread Rating*			Maximum Smoke Developed Classification		
	Wall Surface	Ceiling Surface(1)	Floor Surface	Wall Surface	Ceiling Surface(1)	Floor Surface
Exit stairways, vestibules to *exit* stairs and lobbies described in Sentence 3.4.4.2.(2)	25	25	25	50	50	50
Corridors not within *suites*	(2)	(2)	300	100	50	500
Elevator cars ~~and vestibules~~	~~25~~75	~~25~~75	300	~~100~~450	~~100~~450	~~300~~450
Elevator vestibules	25	25	300	100	100	300
Service spaces and *service rooms*	25	25	25	50	50	50
Other locations and elements	(2)	(2)	No Limit	300	50	No Limit

Notes to Table 3.1.13.7.:
(1) See Article 3.1.13.4. for lighting elements.
(2) Other requirements of this Part apply.

2) Except for a *building* of Group B *major occupancy* ~~and elevator cars~~, the *flame-spread rating* and smoke developed classification of interior wall, floor and ceiling finishes need not conform to the values in Table 3.1.13.7., provided the *building* is *sprinklered*. ~~throughout~~

RATIONALE

Problem

The elevator safety codes in the U.S. and Canada have been harmonized, and in early 2007, a Joint Bi-national Code entitled ASME A17.1/CSA-B44, "Safety Code for Elevators," was published. This code contains harmonized elevator safety requirements, except for a few issues where reference to the NBC is necessary, i.e. Building Codes, Electrical Codes, etc.

To complete the harmonization of fire-safety-related requirements, the flame-spread ratings and smoke developed classifications for elevator cars need to be harmonized.

Justification - Explanation

Differing requirements in Canada and the U.S. for flame-spread requirements and smoke developed classifications have prevented complete harmonization of the American and Canadian elevator codes, ASME A17.1 and CSA-B44. This harmonization is supported and desired by the elevator industry, manufacturers and suppliers, regulatory authorities, the elevator code publishing organizations and other interested parties. The lack of harmonization creates confusion in the highly integrated North American industry.

In addition, requiring a maximum flame-spread rating of 75 on all elevators will provide additional safety by providing a more stringent requirement compared to the current maximum flame-spread rating of 150 for non-high-rise buildings. The maximum flame-spread rating of 25 currently required by the NBC for elevators in high buildings has not been shown to provide justified additional safety compared to a maximum flame-spread rating of 75.

Cost implications

There will be no added costs to manufacturers, suppliers, regulatory authorities or building owners. With the harmonization of requirements throughout North America, rationalization of supplier's inventories, reduction of administration and elimination of errors, a savings to the industry and therefore to elevator purchasers should be provided.

The elevator industry in Canada represents less than 1% of the global elevator industry. Unique Canadian requirements are not feasible in a global industry, particularly when alternative safe requirements are available.

Enforcement implications

The existing regulatory authorities using existing practices will be able to enforce the harmonized requirements. Uniformity of requirements throughout North America will eliminate the possibility of materials meeting U.S. requirements but not Canadian requirements being mistakenly installed in elevators in Canada. Checking for this source of error on elevator installations will streamline inspection practices.

Who is affected

Designers, installers, building owners.

OBJECTIVE-BASED ANALYSIS OF NEW OR CHANGED PROVISION

Provision: 3.1.13.7.(1) **Analysis:**
Attributions
N/A
Objective
N/A

OBJECTIVE-BASED ANALYSIS OF NEW OR CHANGED PROVISION

Provision: 3.1.13.7.(1) **Analysis:**
Attributions
[F02-OS1.2]
Objective
OS1 Fire Safety

OBJECTIVE-BASED ANALYSIS OF NEW OR CHANGED PROVISION

Provision: 3.1.13.7.(1) **Analysis:**
Attributions
[F02-OP1.2]
Objective
OP1 Fire Protection of the Building

OBJECTIVE-BASED ANALYSIS OF NEW OR CHANGED PROVISION

Provision: 3.1.13.7.(2) **Analysis:**
Attributions
N/A
Objective

N/A

Comment

Commentaires