

SUBJECT 9

SUBJECT 9: Elevator Equipment or Parts

Re: Elevator Equipment or Parts

Contact: Larissa Franklin

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Proponent: Freight Classification Development Council

Quick View

The Quick View feature is not intended to replace contextual information within this document. To understand the potential impact of the recommended changes shown here, please read the full proposal.

Subject 9: Elevator Equipment or Parts

Quick View: Eleven items applying on elevator equipment or parts, including those attached to buildings, are canceled with reference to item 120700.

- One new Note established attendant to item 120700

Transportation Characteristics Present:

- Handling ☒Yes ☐No Stowability ☒Yes ☐No Liability ☒Yes ☐No Density ☒Yes ☐No

Provisions based on:

- Greatest dimension and density

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Present Classification Provisions

Item	Description	Class
BUILDING MATERIALS, MISCELLANEOUS, GROUP: subject to item 33570		
34520	Elevator Car Platforms	85
34530	Elevator Car Sides or Tops , not attached to each other, in boxes or crates ...	85
34540	Elevator Cars , freight or passenger, KD	85
34550	Elevator Crossheads	50
34560	Elevator Gates , wooden:	
Sub 1	SU, in packages	85
Sub 2	KD or collapsed, in packages	70
34570	Elevator Guide Clips , iron, in packages	50
34590	Elevator Guides or Guide Rails , in boxes or crates	55
34610	Elevator Plungers , steel, in boxes or crates or enclosed in steel casing	70
34620	Elevator Weights , iron	50
BUILDING METALWORK GROUP: subject to item 35600		
36460	Elevator Shaft Enclosure Doors, Gates, Latticework or Railing , brass, bronze, copper or nickel-silver, in boxes or crates	100
36470	Elevator Shaft Enclosure Doors, Gates, Latticework or Railing , steel or steel and wood combined	70

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Present Classification Provisions—Concluded

Item	Description	Class
	MACHINERY GROUP: subject to item 114000	
120700	 Conveyors, Elevators or Lifts, or Parts thereof , NOI, in packages, see Note, item 120701:	
Sub 1	Greatest dimension exceeding 288 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 8.....	300
Sub 3	8 but less than 15.....	125
Sub 4	15 but less than 30.....	92.5
Sub 5	30 or greater	70
Sub 6	Greatest dimension exceeding 192 inches but not exceeding 288 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 7	Less than 8.....	250
Sub 8	8 but less than 15.....	110
Sub 9	15 but less than 30.....	85
Sub 10	30 or greater	65
Sub 11	Greatest dimension exceeding 96 inches but not exceeding 192 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 12	Less than 8.....	200
Sub 13	8 but less than 15.....	100
Sub 14	15 but less than 30.....	77.5
Sub 15	30 or greater	60
Sub 16	Greatest dimension not exceeding 96 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 17	Less than 8.....	175
Sub 18	8 but less than 15.....	92.5
Sub 19	15 but less than 30.....	70
Sub 20	30 or greater	55
120701	NOTE—Articles tendered for shipment on lift truck skids, pallets or platforms must be securely fastened to and must not overhang the edges of the lift truck skid, pallet or platform deck. Exposed surfaces and edges must be protected by packing forms or other packaging materials so as to withstand the normal rigors of the less-than-truckload environment.	

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Proposed Classification Provisions

Item	Description	Class
	BUILDING MATERIALS, MISCELLANEOUS, GROUP: subject to item 33570	
34520	Elevator Car Platforms	⇒Cancel; see item 120700
34530	Elevator Car Sides or Tops , not attached to each other, etc	⇒Cancel; see item 120700
34540	Elevator Cars , freight or passenger, etc	⇒Cancel; see item 120700
34550	Elevator Crossheads	⇒Cancel; see item 120700
34560	Elevator Gates , wooden, etc	⇒Cancel; see item 120700
34570	Elevator Guide Clips , iron, etc	⇒Cancel; see item 120700
34590	Elevator Guides or Guide Rails , etc	⇒Cancel; see item 120700
34610	Elevator Plungers , steel, etc	⇒Cancel; see item 120700
34620	Elevator Weights , iron	⇒Cancel; see item 120700
	BUILDING METALWORK GROUP: subject to item 35600	
36460	Elevator Shaft Enclosure Doors, Gates, Latticework or Railing , brass, bronze, copper or nickel-silver, etc	⇒Cancel; see item 120700
36470	Elevator Shaft Enclosure Doors, Gates, Latticework or Railing , steel or steel and wood combined	⇒Cancel; see item 120700

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Proposed Classification Provisions—Concluded

Item	Description	Class
MACHINERY GROUP: subject to item 114000		
120700	 Conveyors, Elevators or Lifts, or Parts thereof , NOI, ⇄see Note, item NEW, in packages, see Note, item 120701:	
Sub 1	Greatest dimension exceeding 288 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 2	Less than 8.....	300
Sub 3	8 but less than 15.....	125
Sub 4	15 but less than 30.....	92.5
Sub 5	30 or greater	70
Sub 6	Greatest dimension exceeding 192 inches but not exceeding 288 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 7	Less than 8.....	250
Sub 8	8 but less than 15.....	110
Sub 9	15 but less than 30.....	85
Sub 10	30 or greater	65
Sub 11	Greatest dimension exceeding 96 inches but not exceeding 192 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 12	Less than 8.....	200
Sub 13	8 but less than 15.....	100
Sub 14	15 but less than 30.....	77.5
Sub 15	30 or greater	60
Sub 16	Greatest dimension not exceeding 96 inches, subject to Item 170 and having a density in pounds per cubic foot of:	
Sub 17	Less than 8.....	175
Sub 18	8 but less than 15.....	92.5
Sub 19	15 but less than 30.....	70
Sub 20	30 or greater	55
120701	NOTE—No Change.	
⇄NEW	NOTE—Also applies on building-attached elevator equipment or parts.	

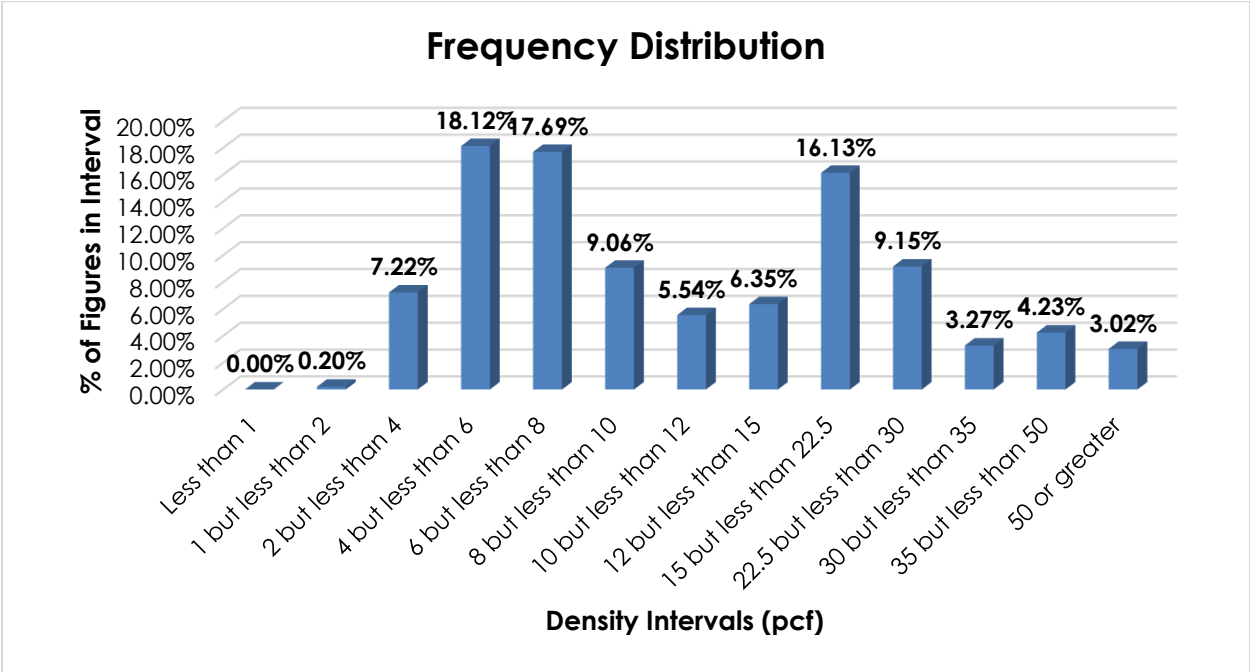
Analysis**Introduction**

This proposal is in response to an inquiry about packaging differences between items 36460 and 36470, both of which apply on types of elevator shaft enclosure doors, gates, latticework, or railing. In addition to reviewing the transportation characteristics of items 36460 and 36470, during the course of research, the FCDC expanded the scope to include an examination of other elevator equipment or parts, as shown in the Present Classification Provisions herein.

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Transportation Characteristics

Density—The information of record includes 6,423 density observations obtained from the FCDC’s Density Study¹. The densities range from 1.00 to 70.30 pcf, with an overall average density of 14.64 pcf. As shown in the graph below, the density distribution is roughly bimodal, with distinct peaks in the 4 but less than 6 pcf, 6 but less than 8 pcf, and 15 but less than 22.5 pcf intervals. Density breaks at 8, 15 and 30 pcf reflect the modality and spread of the distribution.



When the data is evaluated based on the proposed density breaks at 8, 15, and 30 pcf, the density ranges and averages shown in the table below emerge.

Density Groups (pcf)	Density Range (pcf)	Average Density (pcf)
Less than 8	1.00 – 7.99	5.52
8 but less than 15	8.00 – 14.99	10.79
15 but less than 30	15.00 – 29.98	21.34
30 or greater	30.00 – 70.30	43.71

¹ The Density Study is part of an ongoing effort by the FCDC to collect information on actual shipments across all product categories handled by the LTL industry. Carriers that choose to participate in the Study periodically submit shipment data captured through their respective freight auditing programs. The FCDC uses verifiable data points, identified by NMFC item, that include the weight and the dimensions and/or cube of the shipping unit.

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Handling—When not exceeding 96 inches in greatest dimension, the involved products may be tendered in boxes secured on lift truck skids or pallets, or in crates, but as greatest dimension increases, the commodities are typically tendered in packages other than boxes or crates. When not exceeding 96 inches in greatest dimension, the involved articles do not appear to have any significant handling issues. However, these commodities vary greatly in size, and the data of record shows that numerous observations exceed 96 inches (8 feet) in greatest dimension², with some exceeding 192 inches (16 feet). As greatest dimension increases, the handling into and out of the vehicle becomes considerably more difficult, and specialized equipment, or additional personnel, may be necessary to safely handle longer units. Furthermore, as greatest dimension increases, cross-dock operations can be significantly affected. Often there is not enough room at carrier facilities to safely or easily handle and maneuver excessively long handling units.

Stowability—When the involved articles do not exceed 96 inches in greatest dimension, they typically do not present significant or unusual stowability issues. Handling units exceeding 96 inches in greatest dimension are more difficult to stow with other general freight, particularly as they may lack a flat load-bearing surface for top freight. Due to the commodities' size and configuration, it may be difficult to stow adjacent freight. These products may also have protrusions or edges that can potentially be damaged or damage adjacent freight. These factors can make it more difficult and time consuming for the carrier to properly structure the load and maximize vehicle utilization. Furthermore, for the longest articles, the carrier will have to ensure that the freight will fit in the vehicle.

Liability—The involved products are neither perishable nor hazardous. Shipments of these commodities not adequately protected by packaging materials or that overhang the lift truck skid or pallet are more liable to damage, such as bending, denting, and scuffing. Also, they can damage other freight if not correctly stowed within the vehicle.

Conclusion

Based on the foregoing analysis, this proposal would cancel eleven items with reference to item 120700, naming "Conveyors, Elevators or Lifts, or Parts thereof, NOI," as the involved items display similar transportation characteristics to that item. As shown in the table on the following page, the eleven items match the established density breaks³ and class adjustments based on greatest dimension in item 120700, and, therefore, the current provisions of item 120700 would be maintained.

² Item (Rule) 568, "Heavy or Bulky Freight—Loading or Unloading," employs the threshold limit of exceeding 8 feet (96 inches) in greatest dimension as the measurement at which freight becomes more difficult to load and unload when compared to general boxed freight.

³ The density provisions include reference to Item (Rule) 170, the inadvertence clause.

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Density Group (pcf)	Average Density (pcf)	FCDC Minimum Average Density Guideline (pcf)	Class Based on FCDC Density Guidelines When Greatest Dimension Does Not Exceed 96"	Class Adjustment When Greatest Dimension Exceeds 96" But Does Not Exceed 192"	Class Adjustment When Greatest Dimension Exceeds 192" But Does Not Exceed 288"	Class Adjustment When Greatest Dimension Exceeds 288"
Less than 8	5.52	5	175	200	250	300
8 but less than 15	10.79	10.5	92.5	100	110	125
15 but less than 30	21.34	15	70	77.5	85	92.5
30 or greater	43.71	35	55	60	65	70

Additionally, a new Note attendant to item 120700 would be established to clarify the application of the item.