



## Safety Standards for Structural Requirements for Heavy Rail and Light Rail Transit Vehicles

Standards for Engineers Worldwide

### **ASME RT-2-2008 ASME RT-1-2009**

These first editions of the ASME RT Safety Standards apply to carbodies for newly constructed light and heavy rail vehicles for transit passenger service. These Standards define requirements for the incorporation of passive safety design concepts related to the performance of the carbody in collisions, so as to enhance passenger safety while limiting and controlling damage.

These Standards are the first of their kind for North America. They arose from an industry groundswell to address the heavier-duty carbody requirements of North America versus those of Europe (which are governed by European standards EN12663, EN15663 and EN15227.) The result is a pair of uniform standards suitable for adoption by all levels of domestic jurisdiction, while providing state-of-the-art guidelines for other nations considering carbody standards for their rail-transit systems.

These Standards are also unique for utilizing Crash Energy Management (CEM) protocols. CEM represents the latest best-practices of design, testing, analysis and manufacture—enhancing crashworthiness by assigning certain sections of the carbody the task of absorbing a portion of the energy of collision by crushing in a controlled manner. Proper application of CEM preserves occupant volume, while minimizing the consequences of occupant impacts with the vehicle interior. Production efficiencies may also be realized via CEM, although heightening passenger safety is the main intent.

**Intended for** rail-transit carbody manufacturers and their suppliers of components and raw materials, as well as the owners and operators of rail-transit systems, plus all potential governing entities.

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