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# Commuter Rail Seat Testing and Analysis of Facing Seats

By U. S. Department of Transportation

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 192 pages. Dimensions: 11.0in. x 8.5in. x 0.4in. Tests have been conducted on the Bombardier back-to-back commuter rail seat in a facing-seat configuration to evaluate its performance under static and dynamic loading conditions. Quasi-static tests have been conducted to establish the load-deflection characteristics and failure mechanisms of the seat. Dynamic tests have also been conducted with 50th and 95th percentile male, and 5th percentile female instrumented Hybrid III anthropometric test devices (ATDs) to evaluate the collision performance of the seat and a table, and to verify analytical simulation models of the seat occupant. Reasonable agreement between analytical predictions and dynamic test results was found, given the variability in the stiffness of the seats under different loading conditions. This item ships from La Vergne, TN. Paperback.



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