# **CARB EXECUTIVE ORDERS**

# TRANSTEX® VS. UTILITY TRAILER MANUFACTURING (UTM)

DEVICE	ΔC <sub>d</sub> A(m²)*	TEST TYPE	TRAILER TYPE	CARB EXECUTIVE ORDER
E-1930T	0.49	Wind Tunnel	Long Dry and Long Refrigerated Vans	<u>AD-05-002</u>
E-1932T	0.50	Wind Tunnel	Long Dry and Long Refrigerated Vans	<u>AD-05-001-1</u>
E-2330T	0.51	Wind Tunnel	Long Dry and Long Refrigerated Vans	<u>AD-05-003</u>
UTM USS-120A-4	0.44	Wind Tunnel	Long Dry and Long Refrigerated Vans	<u>AD-06-001-1</u>

\*The ΔC<sub>6</sub>A (m<sup>2</sup>) value is the difference in the coefficient of aerodynamic drag by the area between a trailer without an aerodynamic device and a trailer with an aerodynamic device. The ΔC<sub>6</sub>A (m<sup>2</sup>) value correlates to fuel savings; as the ΔC<sub>6</sub>A (m<sup>2</sup>) increases, fuel savings increase proportionally.

## TESTING

When testing Long Dry Vans and Long Refrigerated Vans, the lowest  $\Delta C_d A (m^2)$  value is recorded. This value always results from Long Refrigerated Vans. When comparing CARB's Executive Order for the UTM USS-120A-4 skirt with a  $\Delta C_d A (m^2)$  of 0.44 to CARB's Executive Orders for TRANSTEX<sup>®</sup> EDGE<sup>TM</sup> Skirts with  $\Delta C_d A (m^2)$  values of 0.49, 0.50, and 0.51 yields the most accurate results.

TRANSTEX® and UTM completed testing on Long Dry Vans and Long Refrigerated Vans.

### CASE STUDY | E-1930T VS UTM USS-120A-4

% Increase in Fuel Savings

 $\frac{\Delta C_{d} A (\text{TRANSTEX}^{\circ}) - \Delta C_{d} A (\text{UTM})}{\Delta C_{d} A (\text{UTM})} \times 100$   $\frac{0.49 - 0.44}{0.44} \times 100$  11.36%

FUEL SAVINGS COMPARISON TRANSTEX <sup>®</sup> VS. UTM USS-120A-4				
E-1930T	11.36% greater fuel savings			
E-1932T	13.64% greater fuel savings			
E-2330T	15.91% greater fuel savings			

### CONCLUSION

By equipping trailers with TRANSTEX<sup>®</sup> EDGE<sup>™</sup> Skirts, fleets benefit from **between 11% and 16% more fuel savings** than with UTM's USS-120A-4 skirt.

