CARB EXECUTIVE ORDERS

TRANSTEX® VS. UTILITY TRAILER MANUFACTURING (UTM)

DEVICE	ΔC _d 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	AD-06-001-1

^{*}The $\Delta C_d A$ (m²) 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 $\Delta C_d A$ (m²) value correlates to fuel savings; as the $\Delta C_d A$ (m²) increases, fuel savings increase proportionally.

TESTING

When testing Long Dry Vans and Long Refrigerated Vans, the lowest $\Delta C_d A$ (m²) 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 $\Delta C_d A$ (m²) of 0.44 to CARB's Executive Orders for TRANSTEX® EDGETM Skirts with $\Delta C_d A$ (m²) 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 = $\Delta C_d A \text{ (TRANSTEX®)} - \Delta C_d A \text{ (UTM)}$ x 100

ΔC_dA (UTM)

0.49- 0.44 x 100

= 11.36%

FUEL SAVINGS COMPARISON TRANSTEX® 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® EDGE™ Skirts, fleets benefit from **between 11% and 16% more fuel savings** than with UTM's USS-120A-4 skirt.

