

ELEMENT 24 SERIES TECHNICAL BULLETIN FRONTAL AREA

Authored: Monday, January 03, 2011

The Element 24 series product line was designed to meet the 60 square foot frontal area limitations imposed by some tow vehicle manufacturers. The frontal area of the trailer (the portion of the trailer and tow vehicle combination exposed to the forward wind stream) plays the most significant role in fuel economy and tow vehicle strain at highway speeds. Most tow vehicle manufacturers (notably the Ford F-series pickups and E-series full size vans) impose limitations on the maximum frontal area and the style of the front end of trailers permitted to be towed by their vehicles. Consequences of towing beyond these limitations range from reduced tow vehicle performance to voiding the manufacturer's warranty.

FRONTAL AREA CONSIDERATIONS

Vehicle Line	Frontal Area Limitations/ Considerations	With
F-150	Base Vehicle Frontal Area	Without Trailer Tow Package or Heavy-Duty Payload Package
	45 sq. ft.	With Trailer Tow Package and 3.15 Axle Ratio
	60 sq. ft.	With Trailer Tow Package or Heavy-Duty Payload Package

FRONTAL AREA is the total area in square feet that a moving vehicle and trailer exposes to air resistance. The chart shows the limitations that must be considered in selecting a vehicle/trailer combination. Exceeding these limitations may significantly reduce the performance of your towing vehicle. Selecting a trailer with a low-drag, rounded front design will help optimize performance and fuel economy.

FRONTAL AREA CONSIDERATIONS

Vehicle Line	Frontal Area Limitations/ Considerations	With
F-250/F-350/F-450 Super Duty	60 sq. ft.	All Applications

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