

EXECUTIVE ORDER AD-04-006-1

Relating to Preliminary Approvals of Heavy-Duty Trailer Aerodynamic Devices

Strehl LLC

Pursuant to the authority vested in the California Air Resources Board (CARB) by Sections 38510, 38560, 38560.5, 39600, and 39601 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Section 39515 and Section 39516 of the Health and Safety Code and Executive Order G-19-095;

IT IS ORDERED AND RESOLVED: That the aerodynamic devices produced by the manufacturer are granted preliminary approval, based on the testing and results, as described below, for use on the heavy-duty trailer types listed below, and for only through the 2020 model year. Production devices, which are identified by model on the attachment, shall be in all material respects the same as those for which approval is granted.

∆CdA (m²) Measured	Drag Reduction Technologies	Test Methods	Trailer Types	U.S. EPA Preliminary Approval Device ID
0.45	TATS	WT	LBDV ¹	STR20170900006
TARF=trailer aerodyna <u>Test Methods</u> : WT=wir <u>Trailer Types</u> : LBDV=fi box refrigerated van an and/or partial aero shor box refrigerated van. ¹ A device to be used for c	ologies: TGRT=gap reduci mic rear fairing; TAUD=tra nd tunnel; CFD=computatio ull aero long box dry van a d/or partial aero long box r t box dry van; SBRV=full a compliance with the requirem n title 17 CCR section 95303	iler aerodynamic onal fluid dynami nd/or partial aero refrigerated van; aero short box re ents of the Californ	underbody de cs; CD=coastd b long box dry SBDV=full aer frigerated van nia Tractor-Trail	vice own van; LBRV=full aero long o short box dry van and/or partial aero short er Greenhouse Gas

BE IT FURTHER RESOLVED: The manufacturer has evaluated the device in accordance with the methodology described in title 40, Code of Federal Regulations (CFR), section 1037.526, as it existed on October 25, 2016, which was incorporated by reference in the "California Greenhouse Gas Exhaust Emission Standards and Test Procedures for 2014 and subsequent Model Heavy-Duty Vehicles," adopted October 21, 2014, as last amended December 19, 2018, as incorporated by reference in section 95663(d), title 17, California Code of Regulations (CCR).

BE IT FURTHER RESOLVED: As applicable, when using the device granted preliminary approval for the purpose of certifying a 2020 model-year trailer, in accordance with the California Phase 2 Greenhouse Gas Regulations, as specified in title 40 CFR section 1037.515(a), as incorporated by reference in title 17 CCR section 95663(d), a trailer manufacturer shall use the measured delta CdA value of the device to determine the corresponding trailer Bin-designated delta CdA value, as specified in title 40 CFR section 1037.515(c), as incorporated by reference in title 17 CCR section 95663(d).

BE IT FURTHER RESOLVED: That a device having a measured delta CdA value less than 0.40 square meters that is used on a pre-2020 model-year (i.e., noncertified) long dry-van trailer or long refrigerated-van trailer, as applicable, that travels on a highway in California, in order to comply with the requirements of the California Tractor-Trailer Greenhouse Gas regulations, as specified in title 17 CCR section 95303(b), is granted preliminary approval only when used in combination with other preliminary-approved devices to achieve a composite delta CdA value equal to or greater than 0.40 square meters, relative to a baseline trailer.

BE IT FURTHER RESOLVED: That the manufacturer shall have confirmed that the installations of the device granted preliminary approval shall be appropriate for the intended trailer type application, and that any modifications to the device granted preliminary approval shall not negatively impact aerodynamic performance.

BE IT FURTHER RESOLVED: This preliminary approval is contingent upon the device being installed and maintained as it was tested. Minimal modifications to a device that are required to enable installation on a particular trailer shall be allowed only with written instructions and the approval from the device manufacturer. Device manufacturers shall evaluate and approve all installation modifications and confirm that any modification would have minimal impact on the device's drag reduction performance. No changes to the device from the design, configuration, and installation used for the basis of this approval are allowed. Manufacturers must submit all significant modifications in advance to the CARB for approval. CARB reserves the right to conduct testing of aerodynamic devices submitted for approval.

BE IT FURTHER RESOLVED: This approval shall not be construed as an approval to sell, offer for sale, or advertise any individual component of the device assembly that was granted preliminary approval, separately of the device assembly as it was designed, configured, and tested for the basis of this approval, as applicable.

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BE IT FURTHER RESOLVED: That marketing of a device using any identification other than that shown in this Executive Order or marketing of the device for an application other than those listed in this Executive Order shall be prohibited unless prior approval is obtained from CARB.

BE IT FURTHER RESOLVED: That CARB reserves the right, in the future, to review this Executive Order and the approval provided herein to assure that the device granted preliminary approval continues to meet the requirement of title 17 CCR section 95663(d), et seq.

BE IT FURTHER RESOLVED: That violation of any of the above conditions shall be grounds for revocation of this order.

This Executive Order hereby supersedes Executive Order AD-04-006 dated May 16, 2019.

Executed at El Monte, California, this 2014 day of August 2019.

Allen Lyons, Chief Emissions Certification and Compliance Division

ATTACHMENT

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Aerodynamic Device Model Summary

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Models ^a	Description		
TrailerBlade 715 2232-01	Aerodynamic side skirt; 32 in. x 264 in.		
TrailerBlade 715 2232-02	Aerodynamic side skirt; 32 in. x 264 in.		

^a Not to be combined with underbody aerodynamic devices.