

US EPA Certified SmartWay Mark License Agreement, Technical Specifications & Requirements, and Graphics Standards & Usage Guide for Tractor & Trailer Manufacturers





Trademark License Agreement For Use of U.S. ENVIRONMENTAL PROTECTION AGENCY SmartWay Mark by (name of licensee or Original Equipment Manufacturer)

Whereas the United States Environmental Protection Agency ("EPA", "Agency" or "Licensor") is the owner of the U.S. ENVIRONMENTAL PROTECTION AGENCY SMARTWAY mark ("Mark"), which the Licensee will use to identify tractors or trailers that meet fuel efficiency and emissions standards established by the Agency; and

Whereas the (name of licensee) ("(name)" or "Licensee") intends to display the Mark in connection with its tractors or trailers that meet the requirements for displaying the Mark; and

Whereas Licensee also wishes to assist the Agency in its official recognition efforts by using the Mark in marketing and outreach efforts to help promote public knowledge and acceptance of the Mark.

Now, therefore, in consideration of the mutual promises herein contained, it is agreed that:

1. *Grant of License*: The Licensor hereby grants to the Licensee a non-exclusive, royalty-free right to use the Mark in the following manner:

Only on or in connection with the sale of tractors or trailers that meet the specifications established by Licensor which are attached to this agreement and entitled Technical Specifications & Requirements for Using US EPA's SmartWay Mark on Qualifying Tractors and Trailers.

2. **Quality Control**: The Licensor shall have the right, at all reasonable times, to inspect the Licensee's goods, services and promotional activities employing the Mark to ensure that such use is of proper quality and otherwise consistent with this Agreement. The Licensee agrees that it will display the Mark only in a manner that complies with the attached SmartWay Graphic Standards and Logo Usage Guide.

3. **Duration and Termination**: This Agreement shall terminate 3 years from the date of its signature by both parties. The Licensee, however, may renew this Agreement for an additional term of 2 years with the written consent of Licensor. Such consent shall be in the form of a properly executed Renewal Agreement signed by authorized signatories of the Parties.

Upon termination of this Agreement, all rights of the Licensee to use the Mark shall immediately terminate. In the event of a breach of any of the terms and conditions of this License by the Licensee, the Licensor shall give Licensee written notice of such breach. In the event Licensee does not cure such breach within thirty (30) days, Licensor may immediately terminate this License and shall notify the Licensee in writing of such termination.

4. **Assignments and Sub-Licenses**: This License is not assignable, and any attempt by the Licensee to assign any portion of the License or to grant a sub-license, except as provided for in this Agreement, shall be deemed a breach of this Agreement and shall be cause for termination.

5. Validity and Ownership of Mark: The Licensee is prohibited from challenging or

contesting in any way the Licensor's ownership of the Mark with the U.S. Patent & Trademark Office, or with any other trademark office, or the Licensor's exclusive worldwide ownership of the Mark.

6. Use of Mark:

Licensee shall abide by the following guidelines:

(A) The Licensee acknowledges that the Licensor considers the mark to be its official recognition mark, and holds it out to the public as such.

(B) The Licensee further agrees that the use of mark shall be done in such a way so that there does not exist any appearance of Government endorsement, authorization or affiliation of the Licensor with the Licensee, other than as such affiliation is specified herein between Licensor and Licensee.

7. *Infringement*: The Licensee is required to notify the Licensor of any potential infringement of the mark of which the Licensee is aware, or reasonably should be aware. The Licensor retains the right to determine what constitutes infringement and the course of action to be taken to address it.

The Licensee shall also notify the Licensor of any claims of which the Licensee is aware that the licensed Mark is infringing the name, logo or trademark of another.

8. *Governing Law*. This Agreement shall be interpreted and implemented in accordance with the laws applicable to the United States Government as interpreted by the U.S. District Court for the District of Columbia.

9. *Foreign Trademarks and Service Marks*: Licensee agrees to provide all lawful assistance, as reasonable and at Licensor's request and expense, to Licensor should Licensor decide to register the mark in foreign countries. Licensee shall comply with all applicable legal requirements governing trademark and service mark use, including but not limited to, registered user requirements. Licensee agrees that all use of the mark by Licensee shall inure to the benefit of the Licensor.

10. *Indemnification*: The Licensee agrees to indemnify and hold the Licensor harmless from any and all claims, damages and attorneys' fees arising from the use of the Mark by the Licensee and its operations under the Agreement, except to the extent that any such claims, damages or attorneys' fees arose in connection with any act or failure to act by the Agency. Although the Licensor is precluded from indemnifying the Licensee, per se, pursuant to the Anti-Deficiency Act, the Licensor warrants that it is the owner of the Mark that is the subject of this Agreement, and that it knows of no other entity with superior rights therein. Further, it agrees to cooperate with and assist the Licensee in the unlikely event that the Licensee's use of the Mark is challenged.

11. *Prior Agreements*: This Agreement sets forth and contains the entirety of representations, understandings and agreements of the parties hereto and merges all prior representations, understandings and agreements. This Agreement may be amended only through a written instrument executed by a duly authorized representative of each of the Parties hereto.

In witness whereof, the parties have caused this document to be duly executed as of the latter of the two dates below.

For the United States Environmental Protection Agency

Joann Jackson-Stephens SmartWay Brand Manager

Date

Please fax, mail or e-mail a signed copy of this document to:

Joann Jackson-Stephens U.S. EPA - SmartWay 2565 Plymouth Road Ann Arbor, MI 48105 Phone: (734) 214-4767 Fax: (734) 214-4052 e-mail: jackson-stephens.joann@epa.gov

Technical Specifications & Requirements For Using the US EPA Certified SmartWay[®] Mark on Qualifying Tractors and Trailers

US EPA Certified SmartWay Mark Technical Specifications

Tractors equipped as described in the following tables meet the voluntary SmartWay technical specifications for use of the US EPA Certified SmartWay mark.

	SmartWa	ay Tractor Equipment lis	t		
De la Transform	Current high roof sleeper cab tractor models that qualify include:				
Base Tractor	Manufacturer	Tractor Model	Model Year		
	Navistar	Prostar (and Prostar+)	2007 or newer		
	Navistar	9200i	2007, 2008 & 2009		
	Navistar	LoneStar	2008 or newer		
	Mack	Pinnacle	2008 or newer		
	Daimler	Columbia	2008 or newer		
	Daimler	Century Class S/T	2008 or newer		
	Daimler	Cascadia	2008 or newer		
	Volvo	VN 670	2007 or newer		
	Volvo	VN 780	2007 or newer		
	Kenworth	T2000	2008, 2009, 2010, 2011		
	Kenworth	T660	2008 or newer		
	Kenworth	T700	2011 or newer		
	Peterbilt	387	2008, 2009, 2010, 2011		
	Peterbilt	386	2008 or newer		
	Peterbilt	384	2010 or newer		
	Peterbilt	587	2011 or newer		
	This tractor manufactu	urer list may be updated in the	future.		
	A SmartWay-certified base aerodynamic tractor model is equipped with:				
Aerodynamic					
Tractor	 Integrated high ro Aerodynamic mirr Aerodynamic bum Cab side extender Fuel tank fairings 	nper 'S			
Engine	 Aerodynamic mirr Aerodynamic bum Cab side extender Fuel tank fairings 	rors nper 'S	.S. EPA NOx/PM emission		
Engine Specifications	 Aerodynamic mirr Aerodynamic bum Cab side extender Fuel tank fairings A 2007 or later model y requirements. 	rors nper rs			
Tractor Engine Specifications Tractor Wheels	 Aerodynamic mirr Aerodynamic bum Cab side extender Fuel tank fairings A 2007 or later model y requirements. 	rors nper rs year engine certified to meet U	ter-weight aluminum wheels		
Engine Specifications	 Aerodynamic mirr Aerodynamic bum Cab side extender Fuel tank fairings A 2007 or later model y requirements. 	rors nper 's year engine certified to meet U loes not require) the use of ligh ls, on the SmartWay tractor. M	ter-weight aluminum wheels		

SmartWay Tractor Equipment list

Tractor Tire Specifications

Low-rolling resistance steer and drive tires (duals or singles, aluminum wheels optional) that provide at least a 3% vehicle (i.e., tractor and trailer) fuel economy benefit, relative to mid-range rolling resistance tires as defined by EPA. Approximately half the fuel savings, or about 1 percent, is contributed by the tractor steer and drive tires. Qualifying trailer tire models from the SmartWay verified technology list are included below. Recent updates to this list may be found at: http://www.epa.gov/smartway/transport/what-smartway/verifiedtechnologies.htm#tires

Current qualifying steer and drive tire models include:

Manufacturer	Tire Type	Product Name/ ID Number
BF Goodrich	Steer 🔶	ST244*
BF Goodrich	Drive	DR 444*
Bridgestone	Steer 🔶	R287A (replaces R287), R280, R250F*, R260F*
Bridgestone	Drive	Greatec, M720*
Continental Continental	Drive Steer 🔶	HDL ECO Plus, HDL2 ECO Plus, HDR1 ECO Plus, HSR, HSR1, HSR1 ECO Plus, HSR2, HSR2 ECO Plus HSL2 (replaces HSL), HSL2 ECO Plus, HSR, HSR1, HSR1
Double Coin		ECO Plus, HSR2, HSR2 ECO Plus ER605
	Steer 🔶	
Double Coin	Drive	FD405
Dunlop	Drive	SP456 Fuel Max*
Dunlop	Steer 🔶	SP384 Fuel Max*
Firestone	Steer 🔶	FS590 PLUS*, FS507*
Firestone	Drive	FD662*
General	Steer 🔶	S371, S580, S581
General	Drive	D660
Goodyear	Drive	G305 LHD Fuel Max, G392 SSD, G305 Fuel Max AT*
Goodyear	Steer 🔶	G395 LHS Fuel Max, G399 Fuel Max, G662 Fuel Max*
Hankook	Drive	DL11, Z35A
Hankook	Steer 🔶	AL07+, AL11
Michelin	Drive	XDA2+ ENERGY*, XDA Energy, XDA3, X-One XDA, Xone XDN2*, XOne XDA Energy, XDE2+*, XDN2*, XDE M/S*
Michelin	Steer 🔶	XZA3*, XZA2, XZE*, XZE2*, XZA-1+*, XZA2 Energy
Roadmaster (Cooper)	Steer 🔶	RM180
Тоуо	Drive	M657*
Тоуо	Steer 🔶	M137, M154*
Yokohama	Drive	703ZL*, TY517mc ² *, TY577
Yokohama	Steer 🔶	RY617, 103ZR*, 101ZL*

- **+** Tires that qualify for verification in the steer position also qualify for drive tire verification.
- * SmartWay verified tires that should operate as a "tire set". Confirm specific steer/drive/trailer tire sets (should operate as a unit) with your tire manufacturer/dealer.
- Additional tire models may be added in the future.

Idling Control
ReadinessModels must offer at least one no-idle option capable of providing at least eight
hours of idle-free auxiliary power, heat, and/or air conditioning. Each system must
have at least eight hours of operating capacity. Idle reduction technologies include
the following:

- An auxiliary power unit or generator set
- Fuel operated heater
- Battery operated heating and/or cooling system
- Thermal Storage System

Current qualifying 8 hour + idling control equipment models from the SmartWay verified technology list may be found at: <u>http://www.epa.gov/smartway/transport/what-smartway/verified-</u>technologies.htm#idle

Equipment list for US EPA Certified SmartWay Trailers:

Trailers equipped as described in the following tables meet the voluntary SmartWay technical specifications for use of the US EPA Certified SmartWay mark.

A SmartWay Trailer demonstrates 6.5% or greater reduction in fuel consumption, relative to a baseline 53 foot dry van trailer. See below for baseline trailer description. SmartWay Trailer fuel savings assume trailer is used with a fully-aerodynamic profile, high-roof tractor with integrated roof fairing and side fairings.

SmartWay Trailer fuel savings can be achieved by:

- 1. Aerodynamic improvements 5% or greater fuel savings from reducing aerodynamic drag. *NOTE:* Aerodynamic Manufacturers must comply with all applicable DOT motor vehicle standards. Aerodynamic trailer features may consist of one of the following configurations:
 - *Configuration A*: Side skirt fairing; Front-mounted gap reducers; and Low-rolling resistance tires
 - *Configurations B*: Side skirt fairing; Rear-mounted tail fairing/ Boat tail; and Low-rolling resistance tires
 - *Optional Total Aero Configuration*: Side skirt fairing; Front-mounted gap reducers; Rearmounted tail fairing/ Boat tail; and Low-rolling resistance tires
 - *Configuration C*: Advanced Trailer End Fairing¹ (this can be used with or without other fairings estimated fuel savings 5%) and Low-rolling resistance tires
 - *Configuration D*: Advanced Trailer Skirt¹ (this can be used with or without other fairings estimated fuel savings 7%); and Low-rolling resistance tires
- 2. Low rolling resistance tires 1.5% or greater fuel savings from reducing tire rolling resistance and lower weight. *NOTE:* Total vehicle fuel savings of 3% or greater, achieved by using low rolling resistance tires on both the tractor and trailer.
- 3. Aluminum wheels and/or Weight reduction Optional. For each 300 pounds reduced, 0.2% or greater fuel savings are realized (or if weight-limited, payload capacity can be increased.)²

¹ Advanced trailer end fairings and skirts are advanced technologies that demonstrate greater fuel savings than the standard equipment versions as a result of design changes made by the manufacturer to improve the product.

² For new trailers, weight savings can be achieved by using aluminum, composite, and/or other light-weight components in the trailer.

How to verify a technology or vehicle design: Test Option

- Conduct a TMC/SAE Fuel Consumption Test Procedure Type II, SAE Surface Vehicle Recommended Practice J1321. Manufacturers must certify results in writing to EPA, and must share all test information and test results with EPA upon request. Test design, vehicles, payload, drive cycles, etc., must be consistent with EPA determination of typical vehicle operation and consistent with EPA policy guidance.
- Visit: <u>www.epa.gov/smartway</u> for additional information about SmartWay.
- Visit: <u>www.epa.gov/smartway/transport/what-smartway/tractor-trailer-manufacturers.htm</u> for additional information on SmartWay certified tractor / trailers.
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Base Trailer

Visit <u>www.epa.gov/smartway/transport/what-smartway/verified-technologies.htm</u> for additional information about the SmartWay technology verification.

SmartWay Trailer Equipment List

- **Design**: A SmartWay Trailer is a new dry freight box van trailer for OTR use of 53 feet or greater length. Additional trailer types may be added in the future.
- An older (or pre-owned) dry van trailer of 53 feet or greater length may also qualify if properly retrofitted
- Dimensions:13' 5" to 13' 7" H, 53' L or greater, 102" outside W
- Weight: Assumes a standard dry van trailer of approximately 13,000 pounds or less, including weight of tires and wheels, but excluding weight of aerodynamic components
- The following trailer manufacturers offers a qualifying model:

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- Great Dane Trailers
- Hyundai Translead
 - Manac Inc.
- Stoughton Trailers LLC
- Strick Trailers, LLC
- ° Trailmobile Corporation
- Utility Trailer Manufacturing
- ° Vanguard National Trailer Corporation
- ° Wabash National Corporation
 - Wilson Trailer Company

Additional models may be added in the future.

SmartWay Trailer Equipment List

Tire requirement: Demonstrate 1-1/2% (3% total SmartWay Tractor/ Trailer) vehicle fuel economy benefit, relative to mid-range rolling resistance tires as defined by EPA, by equipping the trailer with low-rolling resistance trailer tires (duals or singles, aluminum wheels optional). Qualifying trailer tire models from the SmartWay verified technology list are included below. Any current updates may be found at:

http://www.epa.gov/smartway/transport/what-smartway/verified-technologies.htm#tires

Manufacturer	Tire Type	Product Name/ Identification Number
Bridgestone	Trailer	R195*, Greatec Trailer, Greatec R125, R197, S197
BF Goodrich	Trailer	TR144*
Continental	Trailer	HTL ECO PLUS, HTL1
Double Coin	Trailer	FT105*
Dunlop	Trailer	SP193 Fuel Max*
Firestone	Trailer	FT455 Plus*
General	Trailer	ST250
Goodyear	Trailer	Unisteel G316 LHT Fuel Max, G316 Fuel Max DuraSeal*
Hankook	Trailer	TL01
Kumho	Trailer	KLT02e
Michelin	Trailer	XTA Energy*, XT1*, X-One XTA, Xone XTE*, XTE
Тоуо	Trailer	M127*
Yokohama	Trailer	RY587mc ² , RY587*, RY587mc ²

Trailer Tire Specifications

Trailer Wheels

Tires that qualify for trailer verification also qualify for verification in all other tire (drive and steer) positions.

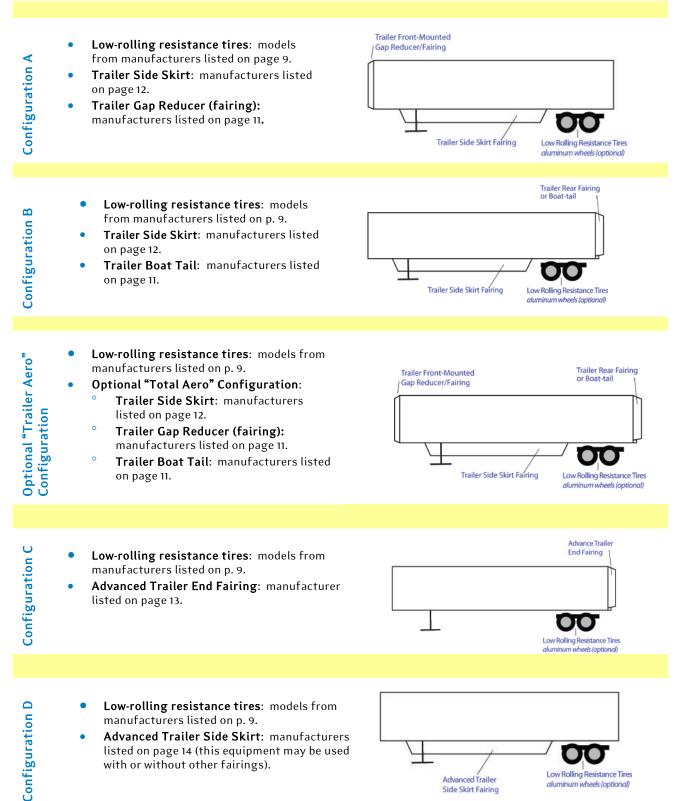
 * SmartWay verified tires that should operate as a "tire set". Confirm specific steer/drive/trailer tire sets (should operate as a unit) with your tire manufacturer/dealer.

• Additional tire models may be added in the future.

EPA encourages (but does not require) the use of lighter-weight aluminum wheels rather than steel wheels, on the SmartWay trailer.

- Alcoa aluminum wheels
- Accuride aluminum wheels

SmartWay Trailers must be equipped in one of the following aerodynamic configurations:



SmartWay Trailer Aerodynamic requirement

Demonstrate 5% aero savings by one of the following options: •

0 Equipping trailer with one or more aerodynamic products from the verified technology list (see equipment list below) OR 0

Manufacturing an aerodynamic trailer that meets or exceeds the performance specifications.

Aero Equipment Type	Verified Aerodynamic Trailer Technologies			Performance Specifications
	Equipping trailer with one or more aerodynamic products from the verified technology list:			Manufacturing an aerodynamic trailer that meets or exceeds the performance specifications:
	Manufacturer	Product Name	Model Name/Number	For applications based upon testing,
	Carrier Transicold	Gap Fairing	76-50172-00	provides at least a 1% fuel savings, as demonstrated by an SAE J1321.
Trailer Gap Reducer	FreightWing	Gap Fairing	76-50172-00	
	Laydon Composites	NoseFairing	NoseFairing	
	Nosecone	Nose 3-D	NC-SWN3D48, NC- SWN3D60, NC-SWN3DP	
	Manufacturer	Product Name	Model Name/Number	For applications based upon testing, provides at least a 1% fuel savings, as demonstrated by an SAE J1321.
	AeroVolution	Inflatable Boat Tail	AeorVolution	
Trailer Boat Tail	Aerodynamic Trailer Systems (ATS)	FuelSaver	FuelSaver	
	Transtex	Transtex Composite Rear Air Deflector	Transtex Composite Rear Air Deflector	

Aero Equipment Type	Verified Aerodyn	amic Trailer Techno	ologies	Performance Specifications
	Manufacturer	Product Name	Model Name/Number	For applications based upon testing, provides at least a 4% fuel savings, as demonstrated by an SAE J1321.
	Carrier Transicold	Belly Fairing	76-50169-01	
	Fleet Engineers	Extended Air Slipper	-	
	FreightWing	Belly Fairing	76-50169-00	
Trailer Side Skirts	Laydon Composites	6 Panel system	Gray Panel: TRSK60000- 001100 & Extensions: TRSK60001-000100; White Panel: TRSK60010-001100 & Extensions: TRSK60011- 000100	
	Laydon Composites	7 Panel System	<i>Gray Panel:</i> TRSK70000- 000100 & Extensions: TRSK70001-000100 or TRSK70001-110100; <i>White Panel:</i> TRSK70010- 000100 & Extensions: TRSK70011-000100 or TRSK70011-110100;	
	Ridge Corp.	GreenWing	RAC00002	
	Silver Eagle	Mid-Length Skirt	MLS5	
	Silver Eagle	Mini-Skirt	-	
	Transtex			
	Utility Trailer	Utility Side Skirt 120		

Aero Equipment Type	Verified Aerodynamic Trailer Technologies			Performance Specifications
	Manufacturer ATDynamics	Product Name	Model Name/Number	For applications based upon testing, provides at least a 5% fuel savings, as demonstrated by an SAE J1321.
Advanced Trailer End Fairing	Arbynames	A I Dynamic TrailerTails	ATDynamic Model # 08-1 TrailerTails	
	Smart Truck	UT-6 integrated system		

Aero Equipment Type	Verified Aerodyna	amic Trailer Techno	logies	Performance Specifications
	Manufacturer	Product Name	Model Name/Number	For applications based upon testing, provides at least a 7% fuel savings,
	Aerofficient Airflow Deflector	FFGW; FFTI and ASFS Deflector	FFGW; FFTI and ASFS Deflector	as demonstrated by an SAE J1321.
	ATDynamics	ATDynamics - Transtex Trailer Side Skirts	40T-1	
	Carrier Transicold	Aeroflex Fairing	76-50188-04; 76-50188-20; 76-50188-21; 76-50188-22; and 76-50188-23	
	FreightWing	Aeroflex Belly Fairing	76-50188-03	
	Laydon Composites Laydon Composites	7 Panel system 8 Panel system	TRSK700SA <i>Gray Panet</i> : TRSK80000- 000100 & Extension: TRSK80001-110100; <i>White</i> <i>Panet</i> : TRSK80010-	
Advanced Trailer Side Skirt			000100 & Extension TRSK80011-110100	
	Laydon Composite	Hybrid 24 ft. Trailerskirt	TRSK710SA	
	Ridge Corporation	GreenWing skirt	RAC003	
	Silver Eagle	Aero Saber	•	
	Transtex	MFS Skirts	MFS	
	Strehl	Windblade	Model 715	
	Utility Trailer	Utility Side Skirt 160	-	
	Wabash National	DuraPlate AeroSkirt - Standard	-	
	Wabash National	DuraPlate AeroSkirt - Angled	-	
	Windyne	Flex-Fairing	FLX001	

Graphic Standards and Logo Usage Guidelines

US EPA Certified SmartWay[®] Mark for Qualifying Tractors and Trailers

Promoting the Mark

The US EPA Certified SmartWay mark may be used in point-of-sale advertising (for on-site locations and web sites) and promotional material (e.g. print advertising) of original equipment manufacturers (OEM) of SmartWay qualified tractors and trailers. Media and other interested parties may also use the SmartWay mark for articles or other educational purposes. However, the mark may only be used in association with tractors and trailers that have met the SmartWay technical specifications.

Only tractor and trailer manufacturers may use the SmartWay mark. Component manufacturers (such as tire or aerodynamic add-on manufacturers) may not apply the US EPA Certified SmartWay mark to their products, product packaging, on their sales web sites or in their point-of-sale advertising.

The US EPA Certified SmartWay mark may also be applied, by the original equipment manufacturer (OEM), to the interior of a qualified SmartWay tractor or a SmartWay trailer. However, it may not be applied to the windows of a tractor or in any place on a tractor's interior that is visible from the exterior.

Correct

Point of sale advertising (signs, banners) Cab door interior Cab dash OEM sales web site Incorrect Cab window Cab rear-view mirror Cab windshield

Incorrect "Endorse" "Rating" "Rated"

The following communication guidelines will prevent misrepresentation and consumer confusion.

Correct
"Earned"
"Qualified"
"Meets SmartWay specifications"

EPA recommends using words in the "correct" column to describe tractors and trailers which meet the voluntary requirements for application of the SmartWay logo by OEMs. Text used in advertising, articles, brochures, publications, annual reports, web sites, or any other promotional material must never imply EPA endorsement of either the manufacturing company or sponsoring organization. Graphics



The US EPA Certified SmartWay mark must be used its entirety and as shown. The only approved logo files to be used can be obtained by contacting EPA. No other graphical representation of the mark may be used.

The graphic may not be altered, cut apart, separated, or otherwise distorted in perspective or appearance. The aspect ratio (length and width dimensions) must remain proportional. The logo must never be reproduced smaller than 1.25" wide to ensure legibility.

Licensees, SmartWay Partners and other organizations are responsible for their own use of the US EPA Certified SmartWay mark, as well as use by their representatives, such as ad agencies and public relations firms.

Color Specifications

- 1. Spot Color For spot color usage (often referred to as PMS or Pantone Matching System):
 - Prescribed green = 347 ٠
 - Prescribed blue = 3005 •
- 2. Four-Color Process For four-color process printing, the build formulas detailed here for the prescribed green and blue must be used.

PRES	CRIBED GREEN	PRESCRIBED BLUE	
Four-C	Color Process	Four-	Color Process
С	100%	С	100%
М	0%	М	40%
Y	85%	Y	0%
К	5%	К	0%

3. Black and White Version - The graphics in their entirety may also be reproduced in 100% black.