Federal Lighting Requirements for all Trailers

IMPORTANT NOTE: Every lamp, reflex reflector & conspicuity treatment must be permanently attached in the location specified below & must comply with all applicable requirements prescribed for it by FMVSS/CMVSS 108. The face of any device on the front/rear & sides should be, respectively perpendicular & parallel to the vehicle's centerline, unless it is photometrically certified at installation angle. No part of the vehicle shall prevent any device from meeting its prescribed requirements unless an auxiliary device meeting all prescribed requirements is installed.

IN CANADA: Manufacturers & importers of vehicles must have the proper certification test records demonstrating compliance of lighting components with all prescribed requirements.

BASIC EQUIPMENT REQUIRED ON ALL TRAILERS

	D	ESCRIPT		M	MANDATORY REQUIREMENTS				
Area	Equipment	SAE Lens Coding	Functional Purpose	Quantity	Color	Location	Height mm(in.) from the ground		
1	Tail Lamps	(T)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical as far apart as practicable	380-1830 (15-72)		
	Stop Lamps	(S)	Indicate braking	Minimum 2	Red	On the rear - symmetrical as far apart as practicable	380-1830 (15-72)		
	Rear Turn Signal Lamps	(I)	Indicate direction of turn	Minimum 2	Red or Yellow	On the rear - symmetrical as far apart as practicable	380-2110 (15-83)		
	Rear Reflex Reflectors	(A)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical as far apart as practicable facing rearward	380-1530 (15-60)		
2	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement		
3	Rear Side Marker Lamps *photometrically certified at in	(P2, PC* or) P3, PC2*) Installation angle		Minimum 2	Red	Each side at rear as far back as practicable	380-1530 (15-60) no max. for veh. under 2032mm (80") wide		
	Rear Side Reflex Reflectors	(A)	Front and rear side marker lamps / side reflex reflectors	Minimum 2	Red	Each side at rear as far back as practicable facing sideward	380-1530 (15-60)		
4	Front Side Marker Lamps *photometrically certified	(P2, PC* or P3, PC2*) I at installation angle	indicate vehicle's presence and length	Minimum 2	Yellow	Each side at front as far forward as practicable	380 (15) minimum		
	Front Side Reflex Reflectors	(A)		Minimum 2	Yellow	Each side at front as far forward as practicable facing sideward	380-1530 (15-60)		

ADDITIONAL EQUIPMENT FOR TRAILERS EXCEEDING THE FOLLOWING PARAMETERS Length 9.1m (30 ft.) or longer

	DES	SCRIPTI	ON	MA	MANDATORY REQUIREMENTS				
Area	Equipment	SAE Lens Coding	Functional Purpose	Quantity	Color	Location	Height mm(in.) from the ground		
5	a Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center facing sideward	380 (15) minimum		
	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center facing sideward	380-1530 (15-60)		

Width 2032mm (80 in.) or wider

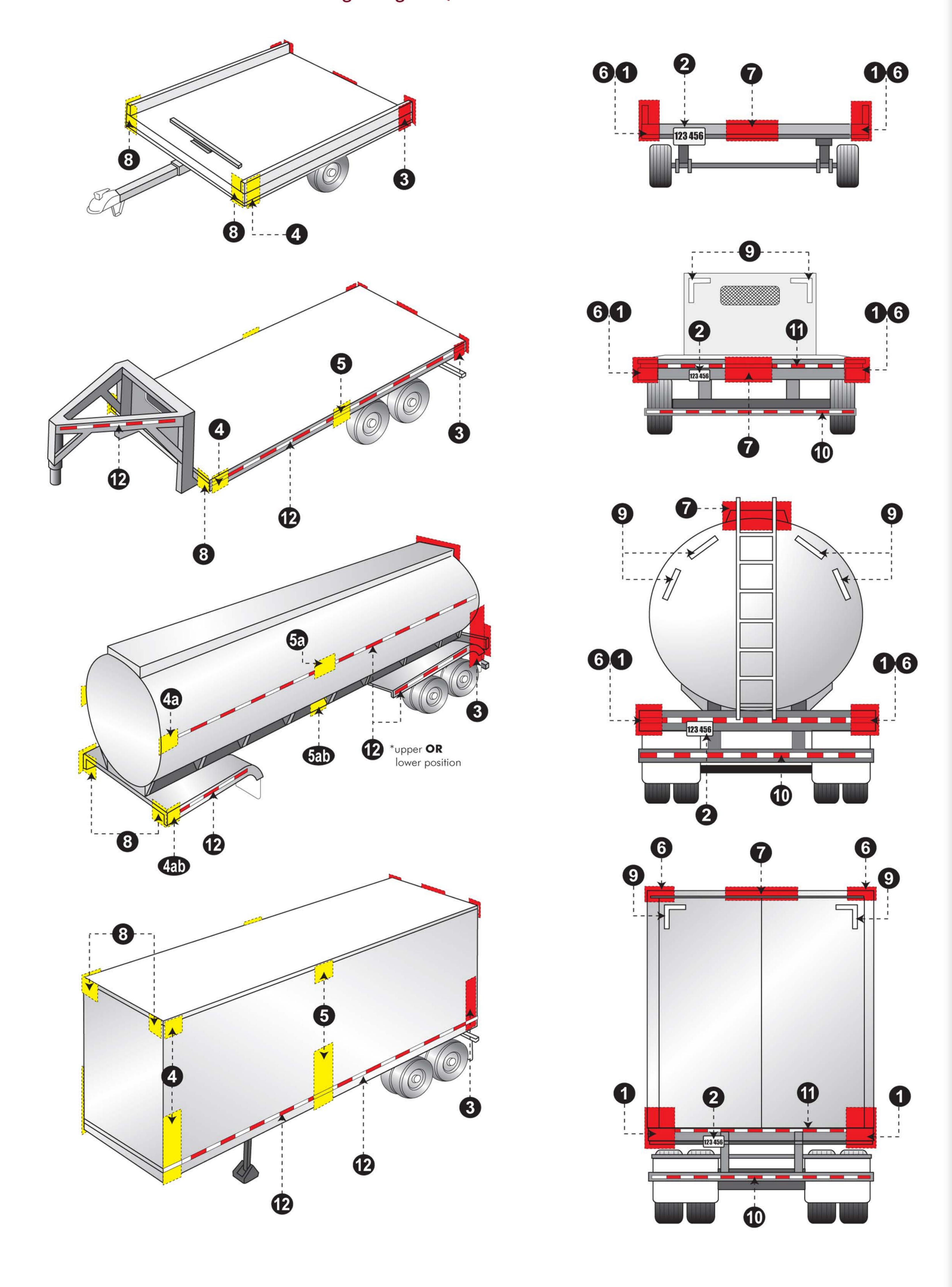
	DESCRIPTION		MANDATORY REQUIREMENTS							
Area	Equipment	SAE Lens Coding	Functional Purpose	Quantity	Color	Location	Height			
6	Rear Clearance Lamps *photometrically certified at ins	(P2, PC* or P3, PC2*) stallation angle	Show vehicle's width MAY NOT be combined with tail lamps	Minimum 2	Red	At widest point - symmetrical on the rear or near the rear facing rearward	As high as practicable may be lower only if ID lamps are at the top			
7	Rear Identification (ID) Lamps	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3	Red	On the rear - center horizontally spaced 150mm (6 in.) to 300mm (12 in.) apart facing rearward	At the top - may be lower if door header narrower than 25mm			
8	Front Clearance Lamps *photometrically certified at ins	(P2, PC* or P3, PC2*) stallation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical on the front or near the front facing forward	As high as practicable			

Width 2032mm (80 in.) or wider AND GVWR 4536 kg (10,000 lb.) or more

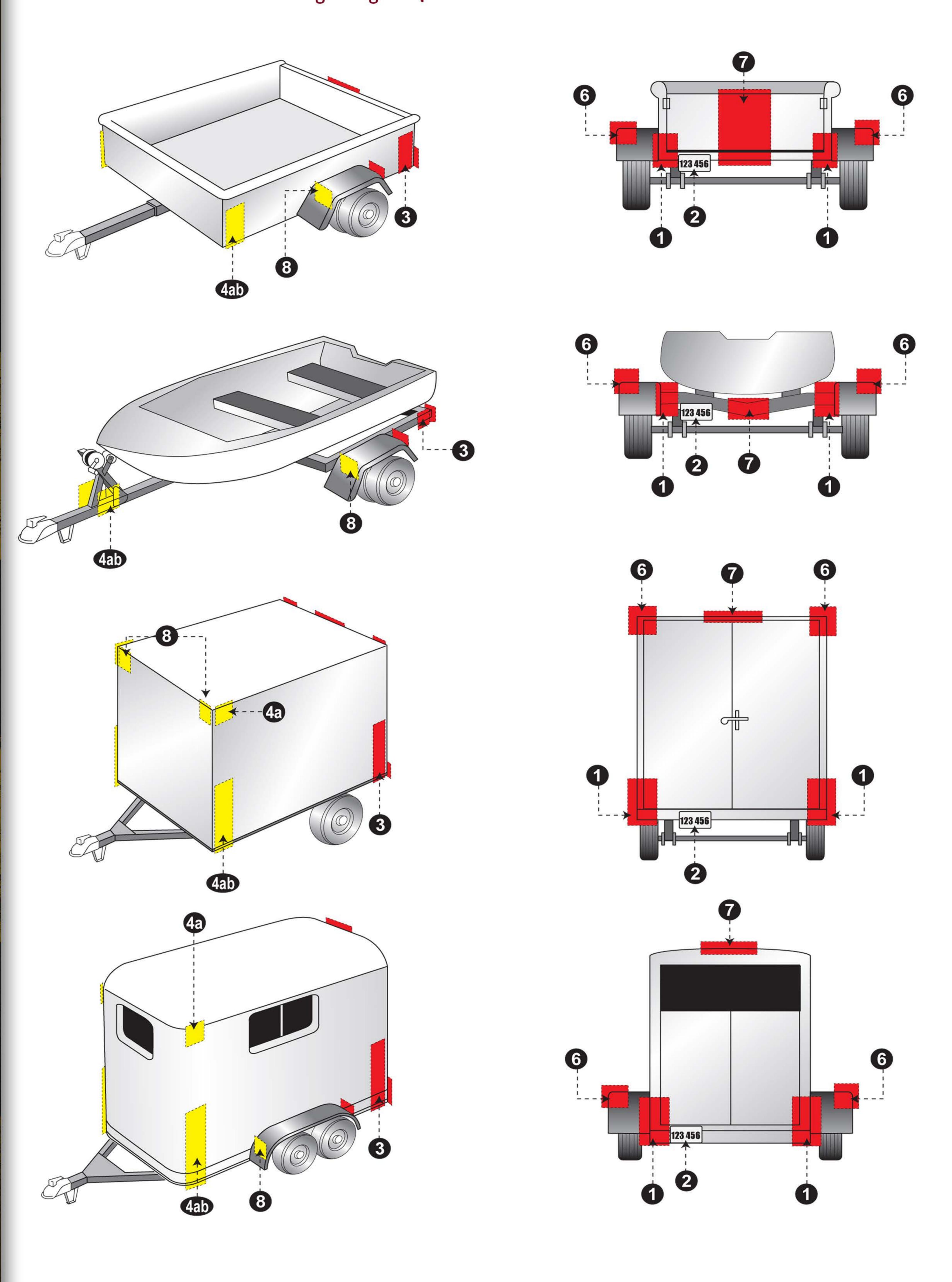
D Area	DESCRIPTION Area Conspicuity Treatment DOT C			MAN Quantity	VDATOR' Color	S Height	Options		
9	Rear Upper Body Markings			Exactly 2 pairs of 300mm long strips	White	On the rear upper corners facing rearward	At the top	Reflex reflectors may not be	
10	Bumper Bar Marking	DOT-C2 DOT-C3 DOT-C4	_		Continuous	Red/White	On the rear bumper bar's horizontal element full width - facing rearward	No requirement	required if they are replaced in their required location with conspicuity
1	Rear Lower Body Marking		Continuous	Red/White (see options)	On the rear full width of the vehicle facing rearward	As horizontal as practicable and as close as practicable to the range of 375 to 1525mm from the ground	Canada:		
12	Side Marking			(see location)	Red/White (see options)	Each side - facing sideward continuous, or evenly spaced over minimum of 50% of length starts and ends as close to the t and rear of the vehicle as practical	As horizontal as practicable and as close as practicable to the range of 375 to 1525mm from the ground able	Rear lower body and side conspicuity treatment may also be solid white, solid yellow, or white and yellow.	

NOTE: The edge of red conspicuity tape shall not be closer than 75 mm to the edge of any amber lamp and the edge of white conspicuity tape shall not be closer than 75 mm to the edge of any lamp

Federal Lighting Requirements for all Trailers



Federal Lighting Requirements for all Trailers



Federal Lighting Requirements for all Trucks, Buses, and MVP's

IMPORTANT NOTE: Every lamp, reflex reflector & conspicuity treatment must be permanently attached in the location specified below & must comply with all applicable requirements prescribed for it by FMVSS/CMVSS 108. The face of any device on the front/rear & sides should be, respectively perpendicular and parallel to the vehicle's centerline, unless it is photometrically certified at installation angle. No part of the vehicle shall prevent any device from meeting its prescribed requirements unless an auxiliary device meeting all prescribed requirements is installed.

IN CANADA: Manufacturers & importers of vehicles must have the proper certification test records demonstrating compliance of lighting components with all prescribed requirements.

BASIC EQUIPMENT REQUIRED ON ALL TRUCKS, BUSES & MPVs

	DES	SCRIPT		M	ANDA	TORY REQUIREN	
Area	Equipment	SAE Lens Coding	Functional Purpose	Quantity	Color	Location	Height mm(in.) from the ground
1	Headlamps - Lower Beam US requires "DOT" lettering on le US&Canada - light source code		Forward road illumination	Minimum 2	White	On the front - symmetrical as far apart as practicable If 4 lamp system - outboard or above upper	560-1370 (22-54) beams
	Headlamps - Upper Beam US requires "DOT" lettering on le US&Canada - light source code		Forward road illumination	Minimum 2	White	On the front - symmetrical If 4 lamp system - inboard or below lower b	560-1370 eams (22-54)
	Parking Lamps Vehicles less than 2032mm wide	(P)	Indicate parked vehicle	Minimum 2	White or Yellow	On the front - symmetrical as far apart as practicable	380-1830 (15-72)
	Daytime Running Lamps (DRL Canada - required / US - option US requires "DRL" lettering on len		Indicate in use vehicle	Minimum 2	White or Yellow	On the front - symmetrical as far apart as practicable	380 (15) min. Max. depends on type of DRL
	Front Turn Signal/ Hazard Warning Lamps	(I)	Indicate direction of turn/ identify disabled vehicle	Minimum 2	Yellow	On the front- symmetrical as far apart as practicable	380-2110 (15-83)
2	Front Clearance Lamps Vehicles 2032mm wide or wider *photometrically certified at installa	(P2, PC* or P3, PC2*) ation angle	Show vehicle's width	Minimum 2	Yellow	At widest point - symmetrical on the front or near the front facing forward	As high as practicab
3	Front Identification Lamps (ID) Vehicles 2032mm wide or wider	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3	Yellow	On the front - center horizontally spaced 150 mm (6 in to 300 mm (12 in.) apart	As high as practicab or on top of the cal
4	Front Side Marker Lamps *photometrically certified at in	(P2, PC* P3, PC2*) stallation angle		Minimum 2	Yellow	Each side at front as far forward as practicable	380 (15) minimum
	Front Side Reflex Reflectors	(A)	Front and rear side marker lamps /	Minimum 2	Yellow	Each side at front as far forward as practicable facing side	380-1530 eward (15-60)
5	Rear Side Marker Lamps ** *photometrically certified at in	(P2, PC* or P3, PC2*) stallation angle	side reflex reflector indicate vehicle's presence and length	Minimum 2	Red	Each side at rear as far back as practicable	380 (15) minimum
	Rear Side Reflex Reflectors ** **not required on Truck Tractors	(A)		Minimum 2	Red	Each side at rear as far back as practicable facing side	380-1530 ward (15-60)
6	Rear Clearance Lamps Vehicles 2032mm wide or wider Not required on Truck Tractors *photometrically certified at installa	(P2, PC* or P3, PC2*)	Show vehicle's width MAY NOT be combined with tail lamps	Minimum 2	Red	At widest point - symmetrical on the rear or near the rear facing rearward	As high as practicable may be lower only if real ID lamps are at the top
7	Rear Identification (ID) Lamps Vehicles 2032mm wide or wider Not required on Truck Tractors	(P2 or P3)	Indicate presence of a wide vehicle	Exactly 3	Red	On the rear - center horizontally spaced 150mm (6 in.) to 300mm (12 in.) apart facing rearward	At the top may be lower if door head narrower than 25mm
0	Tail Lamps	(T)	Indicate vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical as far apart as practicable	380-1830 (15-72)
0	Stop Lamps	(S)	Indicate braking	Minimum 2	Red	On the rear - symmetrical as far apart as practicable	380-1830 (15-72)
	Rear Turn Signal/ Hazard Warning Lamps	(I)	Indicate direction of turn/ identify disabled vehicle	Minimum 2	Red or yellow	On the rear - symmetrical as far apart as practicable	380-2110 (15-83)
	Rear Reflex Reflectors	(A)	Show vehicle's presence and width	Minimum 2	Red	On the rear - symmetrical as far apart as practicable	380-1530 (15-60)
9	Backup Lamp	(R)	Illuminates ground behind the vehicle and alert road users	Minimum 1	White	Rear	No requirement
0	License Plate Lamp(s)	(L)	Illuminates license plate	Minimum 1	White	On the rear - above or at the sides of license plate	No requirement
7	Center High Mounted Stop Lamp	(U3)	Indicates braking	1	Red	On the rear - centerline of the vehicle	860 (34) minimum

ADDITIONAL EQUIPMENT FOR SPECIFIC VEHICLES VEHICLES 9.1m (30 ft.) LONG OR LONGER

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	DES	CRIPTIO	N	MANDATORY REQUIREMENTS					
Area	Equipment	SAE Lens Coding	Functional Purpose	Quantity	Color	Location	Height mm(in.) from the ground		
12	a Intermediate Side Marker Lamps	(P2 or P3)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center	380 (15) minimum		
4	Intermediate Side Reflex Reflectors	(A)	Indicate presence of a long vehicle	Minimum 2	Yellow	Each side near center facing sideward	380-1530 (15-60)		

Truck Tractors

DESCRIPTION					MAI	NDATORY REQUIREN	JENTS	
Area	Conspicuity Treatment		DOT Coding	Quantity	Color	Location	Height	Options
13	Rear Upper Body Markings		DOT-C2	Exactly 2 pairs of 300mm long strips	White	Rear upper corners of cab facing rearward	As high as practicable excluding fairings	
14	Rear Marking –		DOT-C2 DOT-C3 DOT-C4	Exactly 2 sections of min. 600mm each	Red/ White	Rear - facing rearward - on fenders, on mud flap brackets, or within 300mm below the top of mud flaps	As horizontal as practicable and not higher than 1525mm from the ground	If mud flaps not used - on the cab or frame mounted brackets

NOTE: The edge of red conspicuity tape shall not be closer than 75 mm to the edge of any amber lamp and the edge of white conspicuity tape shall not be closer than 75 mm to the edge of any lamp

