

Annual Vessel Registration and State Ramp Use Decals for 2022

Scope of Work

The contractor shall provide all labor and material as specified herein.

Description

The reflective sheeting shall consist of lens elements enclosed within a transparent resin and shall have a pre-coated pressure sensitive adhesive backing protected by a removable liner. The retro-reflective sheeting shall provide a weather resistant, essentially smooth, flat, outer surface when finished with material in the manner recommended by the retro-reflective sheeting manufacturer.

A. RETRO-REFLECTIVE SHEETING REQUIREMENTS

1.0 Reflective Characteristics

The unprinted retro-reflective sheeting shall have the following minimum brightness values expressed as average candlepower per square foot of material. Measurements shall be conducted in accordance with the reflective intensity testing procedures for reflective sheeting specified in federal specification LA-300C, "Sheeting and Tape, Reflective: Non-Exposed Lens, Adhesive Backing", Para. 4.4.7.

	White		
Observation Angles	0.2	0.5	
Entrance Angles	-4	30.0	18.0
	40	6.0	5.0

2.0 Rainfall Performance

The brightness of the sheeting, totally wet by rain, shall not be less than 90% of the above values. Wet performance measurements shall be conducted at 0.2 observation and -4 entrance in accordance with the rainfall test method specified in federal specification LS-300C, "Sheeting and Tape Reflective: Non-Exposed Lens, Adhesive Backing", Para. 4.4.9.4.

3.0 Adhesive

- 3.1 The pre-coated pressure sensitive adhesive shall form a durable vandal resistant bond to clean, dry, painted, varnished, fiberglass, aluminum, or steel surfaces. Surfaces may be moderately rough, pitted or waxed.
- 3.2 The protective liner attached to the adhesive shall be removed by peeling without soaking in water or other solvents and shall be easily removed after accelerated storage for four hours at 150°F under weight of 2.5 lbs. per square inch.
- 3.3 The adhesive shall not exude from edges of the sheeting when processed into the finished decal so as to cause stacked pieces to stick together during shearing, cutting, printing, handling, or while packaged in shipment and distribution.

4.0 **Film**

- 4.1 The sheeting shall have a similar diffuse (daytime) and reflected (night time) color.
- 4.2 The sheeting surface shall be readily cut/diecut without cracking, or flaking, and shall be compatible with transparent or opaque inks and protective finishing clear as designed and supplied by the reflective sheeting manufacturer for decal fabrication.
- 4.3 The decals processed and applied in accordance with the recommendations of the reflective sheeting manufacturer shall be easily cleansed of normal direct accumulation by washing with water and mild detergent. The surface shall be sufficiently solvent resistant to permit cleaning with solvents such as VW&P naphtha, mineral spirits, turpentine or other solvents commonly used on vessel finishes. Rinsed and dried, the surface shall show no appreciable change following cleaning when compared to a new clean decal surface.
- 4.4 Protective finished clear coating shall remain clear and durable as well as provide a compatible surface for direct application of additional registration decals.

5.0 **Physical Characteristics**

Retro-reflective sheeting shall be free from ragged edges, cracks, and blisters and be packaged in accordance with accepted commercial standards. Decals shall have a service life of a minimum of twelve (12) months.

B. FABRICATION REQUIREMENTS

1.0 **Item No. 1: Annual Vessel Registration Decal**

1.1 Design, Color and Size

The size, shape and design of the decals, as well as the size and position of all printing, shall be in strict conformity with the attached sample and the following requirements.

The vessel registration decal shall have a background sheeting of "Confirm" brand security film No. 4230 (white). The border and wording shall be reversed printing with "Scotchlite" brand transparent process color international orange or a material of equal quality. Finished decal must be clear coated with "Scotchlite" brand clear coat No. 260 or a material of equal quality.

All wording and numerics shall be printed with "Scotchlite" brand process color No. 200 (black) or a material of equal quality. The "month number" shall be followed by a slash, the year of the decal expiration shall be "22".

The dimensions of each decal shall be three inches (3.0") per side.

The adhesive protective liner on sheeting intended for fabrication of individual decals shall be scored at or near the center of each sticker for easy removal.

1.2 Registration Number

Decals shall be manufactured in pairs, and each pair shall have identical registration numbers and must be easily separated.

Each pair of decals shall be printed with a registration number running consecutively shown in the table below. The registration number shall be printed with “Scotchlite” brand process color No. 200 (black) or a material of equal quality. Design and size of registration numbers to be approved by the user. (See example illustration, Item No. 1).

1.3 Quantity

Month	Beginning Registration Number	Ending Registration Number	Amount (pairs)
1	W00001	W01600	1600
2	W01601	W03100	1500
3	W03101	W04900	1800
4	W04901	W06800	1900
5	W06801	W08700	1900
6	W08701	W10800	2100
7	W10801	W12900	2100
8	W12901	W14900	2000
9	W14901	W16600	1700
10	W16601	W18300	1700
11	W18301	W20100	1800
12	W20101	W22000	1900

1.4. Barcode

The decal shall contain a 2D UPC barcode which reads the following information shown in quotes and from the table above as follows: (1) the registration number in sequential order beginning with “W00001”; and, (2) the corresponding month/year beginning with “1/22”.

2.0 Item No. 2: State Ramp Use Decal

2.1 Design, Color and Size

The size, shape and design of the decals, as well as the size and position of all printing, shall be in strict conformity with the attached sample and the following requirements.

The state ramp use decal shall have a background sheeting of “Confirm” brand security film No. 4230 (white). The border shall be reversed printed with “Scotchlite” brand transparent process color international orange or a material of equal quality. Finished decals must be clear coated with “Scotchlite” brand clear coat No. 260 or a material of equal quality.

All wording and numerics shall be printed with “Scotchlite” brand process color No. 200 (black) or a material of equal quality. The “month number” shall be followed by a slash, the year of the decal expiration shall be “22”.

The dimensions of each decal shall be three inches (3.0") per side.

The adhesive protective liner on sheeting intended for fabrication of individual decals shall be scored at or near the center of each sticker for easy removal.

2.2 Ramp Number

Decals shall be manufactured in pairs, and each pair shall have identical ramp numbers and must be easily separated.

Each pair of decals shall be printed with a ramp number running consecutively shown in the table below. The ramp number shall be printed with "Scotchlite" brand process color No. 200 (black) or a material of equal quality. Design and size of ramp numbers to be approved by the user. (See example illustration, Item No. 2).

2.3 Quantity

Month	Beginning Ramp Number	Ending Ramp Number	Amount (pairs)
1	W30001	W31400	1400
2	W31401	W32800	1400
3	W32801	W34300	1500
4	W34301	W35900	1600
5	W35901	W37500	1600
6	W37501	W39300	1800
7	W39301	W41000	1700
8	W41001	W42600	1600
9	W42601	W44000	1400
10	W44001	W45300	1300
11	W45301	W46800	1500
12	W46801	W48300	1500

2.4. Barcode

The decal shall contain a 2D UPC barcode which reads the following information shown in quotes and from the table above as follows: (1) the ramp number in sequential order beginning with "W30001"; and, (2) the corresponding month/year beginning with "1/22".

C. APPLICATION INSTRUCTION

Application instructions shall be printed on the back of each pair of decals. See attached sample for printing of application instructions.

D. RESPONSIBILITY

The successful sheeting bidder shall furnish all inks, clear coating, and thinners needed to produce boat registration decals meeting the requirements of this specification.

E. SECURITY MEASURES

The Contractor must provide adequate security methods and supervision to protect decals from hazard or loss. A complete description of the plant security precautions must accompany each bid. The State reserves the right to enter the vendor's premises at any time during the production of decals to inspect the progress of production, the quality of workmanship, and the adequacy of security.

F. WORKMANSHIP

All workmanship shall be first class and done in accordance with generally accepted decal manufacturing standards.

G. WARRANTY

The decal manufacturer shall certify that all decals furnished conform to the specifications herein. The decal manufacturer shall replace all defective decals without further expense to the State.

H. PACKAGING

Decals shall be packaged in such a manner as to prevent sticking or damaging of printed surface while in transit or in storage.

I. DELIVERY

Delivery shall be made within 45 calendar days from the date indicated in the Notice to Proceed.

J. PAYMENT

Payment shall be made in lump sum to the vendor awarded the contract. Payment shall include labor, materials, State and Federal taxes and delivery.

K. GUARANTEE

The vendor shall submit a statement guaranteeing that the decals he furnished will be free of any defective material or workmanship for a period of 12 months from the date of delivery. The vendor shall further agree to furnish, at no cost to the State, labor and materials for replacement decals in which defects appear within the guarantee period.

**Item No. 1
Annual Vessel Registration Decal**

(Front)



(Back)

HOW TO APPLY		WHERE TO APPLY
REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING	<ol style="list-style-type: none"> 1. AFFIX ONE STICKER TO EACH SIDE OF VESSEL 3" AFT OF (TOWARD THE STERN) AND IN LINE WITH THE REGISTRATION NUMBERS AS ILLUSTRATED BELOW. 2. THE 3" STICKER MAY BE USED AS A MEASURING DEVICE TO DETERMINE THE PROPER DISTANCE. <div style="text-align: center; margin-top: 10px;"> </div>
<ol style="list-style-type: none"> 1. Be sure surface where sticker is to be mounted is clean. 2. Peel off protective backing paper. 3. Position sticker and squeegee down firmly. 		
<div style="border: 1px solid black; height: 20px; width: 100%;"></div> <div style="border: 1px solid black; height: 20px; width: 100%;"></div>		

**Item No. 2
State Ramp Use Decal**

(Front)



(Back)

HOW TO APPLY

REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING
<ol style="list-style-type: none">1. Be sure surface where sticker is to be mounted is clean.2. Peel off protective backing paper.3. Position sticker and squeegee down firmly.	
PLACE ON EITHER SIDE OF	
TRAILER TONGUE OR WINCH SUPPORT	