

DOBOR Commercial Decals 2028 - Job No. 26.10

Scope of Work – The contractor shall provide all labor and material as specified herein. A mailed physical copy of a “proof” is required prior to providing the notice to proceed at no additional cost.

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.

Retro Reflective Sheeting Requirements

A. Reflective Characteristics

1. 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. 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.

B. Adhesive

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.
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. 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.

DOBOR Commercial Decals 2028 - Job No. 26.10

C. Film

1. The sheeting shall have a similar diffuse (daytime) and reflected (nighttime) color.
2. The sheeting surface shall be readily cut/die cut 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.
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, and 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. Protective finished clear coating shall remain clear and durable as well as provide a compatible surface for direct application of additional registration decals.

D. 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.

Fabrication Requirements

E. Vector Files

No vector files. Vector files will not be provided.

A. Annual Commercial Decals (Item No. 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 commercial registration decals shall have a background sheeting of "Confirm" Brand Security Film No. 4230 (white). The border and wording shall be reversed printed with "Scotchlite" Brand Transparent Process **Red** or a material of equal quality. Finished decals must be clear coated with "Scotchlite" Brand Clear Coat No. 270 or a material of equal quality.

All wording and numeric shall be printed with "Scotchlite" Brand Process Color No. 200 (black) or a material of equal quality. The month shall be followed by a slash "/" and the year "28".

DOBOR Commercial Decals 2028 - Job No. 26.10

The dimensions of each decal shall be three inches (3.0") in diameter.

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. Serial Number

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

Each pair of decals shall be printed with a serial number running consecutively from E00001 to E09200 for 2028. The serial number shall be printed with "Scotchlite" Brand Process Color No. 200 (black) or a material of equal quality. (See attached illustration, Item No. 1)

3. Quantity

Month	Beginning Decal Number	Ending Decal Number	Amount (pairs)
1	E00001	E00600	600
2	E00601	E01300	700
3	E01301	E01900	600
4	E01901	E02600	700
5	E02601	E03600	1000
6	E03601	E05100	1500
7	E05101	E05600	500
8	E05601	E06200	600
9	E06201	E06900	700
10	E06901	E07600	700
11	E07601	E08300	700
12	E08301	E09200	900

Blank Decals (Item No. 2)

The month on the remaining 800 pairs of decals shall be left blank, (w/year "28" imprinted on the decals).

Month (Blank)	Beginning Decal Number	Ending Decal Number	Amount (pairs)
	E09201	E10000	800

B. Annual Tow-In Decals (Item No. 3)

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.

DOBOR Commercial Decals 2028 - Job No. 26.10

The annual tow-in decals shall have a background sheeting of "Confirm" Brand Security Film No. 4230 (white). The border shall be reversed printed with "Scotchlite" Brand Transparent Process **Red** or a material of equal quality. Finished decals must be clear coated with "Scotchlite" Brand Clear Coat No. 270 or a material of equal quality.

The "month number" shall be followed by a slash, the year of the decal expiration shall be "28". All wording and numeric shall be printed with "Scotchlite" Brand Process Color No. 200 (black) or a material of equal quality.

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. Serial Number

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

Each pair of decals shall be printed with a serial number running consecutively from E10001 to E11100 for 2028. The serial number shall be printed with "Scotchlite" Brand Process Color No. 200 (black) or a material of equal quality. (See attached illustration, Item No. 3).

3. Quantity

Month	Beginning Decal Number	Ending Decal Number	Amount (pairs)
8	E10001	E11100	1100

Application Instruction

Application instructions shall be printed on the BACK of each pair of decals. See attached samples (Item No. 1, Item No. 2, Item No. 3) for printing of application instructions.

Item No. 1/Item No. 2

HOW TO APPLY

REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING
1. One set of decals per item. 2. Choose decal location. 3. Be sure surface where decal is to be mounted is clean. 4. Peel off protective backing paper. 5. Position decal and squeegee down firmly.	

HOW TO APPLY

REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING
1. One set of decals per item. 2. Choose decal location. 3. Be sure surface where decal is to be mounted is clean. 4. Peel off protective backing paper. 5. Position decal and squeegee down firmly.	

DOBOR Commercial Decals 2028 - Job No. 26.10

Item No. 3

HOW TO APPLY

Affix one decal to each side of thrill craft 1" aft (toward the stern) and in line with the registration decals.

HOW TO APPLY

Affix one decal to each side of thrill craft 1" aft (toward the stern) and in line with the registration decals.

C. Responsibility

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

D. 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.

E. Workmanship

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

F. 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.

G. Packaging

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

H. Delivery

Delivery shall be made within thirty (30) calendar days from the date indicated in the Notice to Proceed to the below address. If delivery deadline falls on a weekend or State holiday, delivery shall be made by 4:00pm on the next business day.

State of Hawaii, DOBOR
Oahu District Office
4 Sand Island Access Road
Honolulu, Hawaii 96819

I. Payment

Payment shall be made in lump sum to the vendor awarded the contract after completion of the terms of the contract are fulfilled. Payment shall include labor, materials, State

DOBOR Commercial Decals 2028 - Job No. 26.10

and Federal taxes and delivery costs.

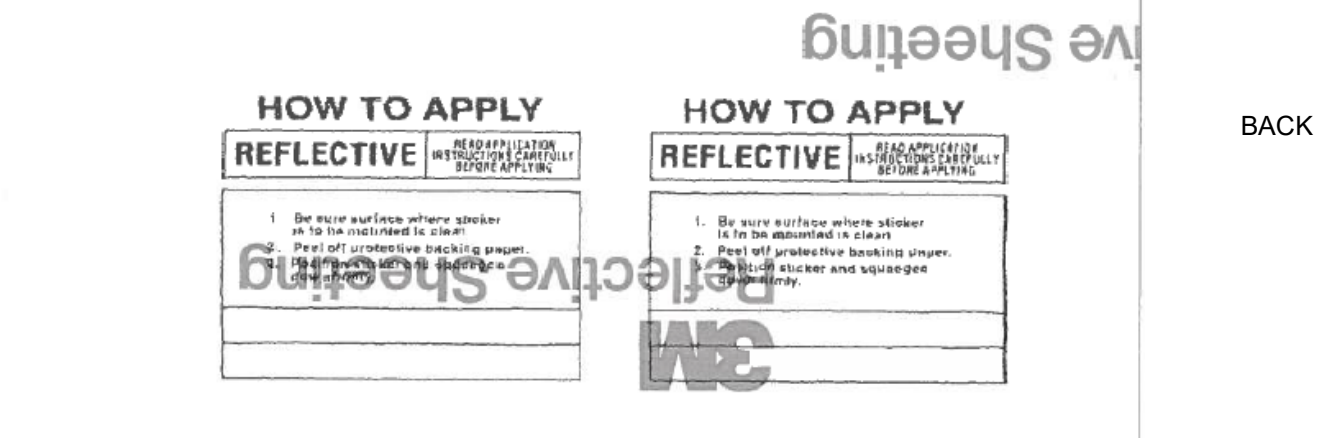
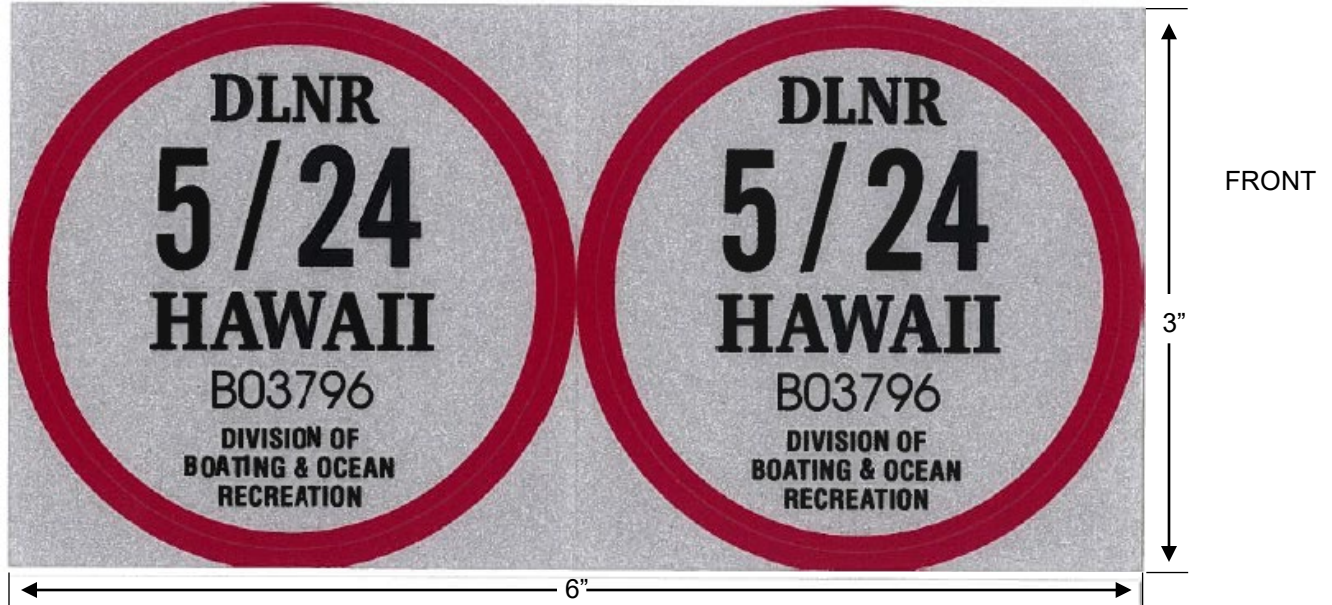
J. Guarantee

The vendor shall submit a statement guaranteeing that the decals they 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.

DOBOR Commercial Decals 2028 - Job No. 26.10

ITEM NO. 1 ANNUAL COMMERCIAL MONTH DECAL

(FRONT)



(BACK)

HOW TO APPLY

REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING
1. One set of decals per item. 2. Choose decal location. 3. Be sure surface where decal is to be mounted is clean. 4. Peel off protective backing paper. 5. Position decal and squeegee down firmly.	

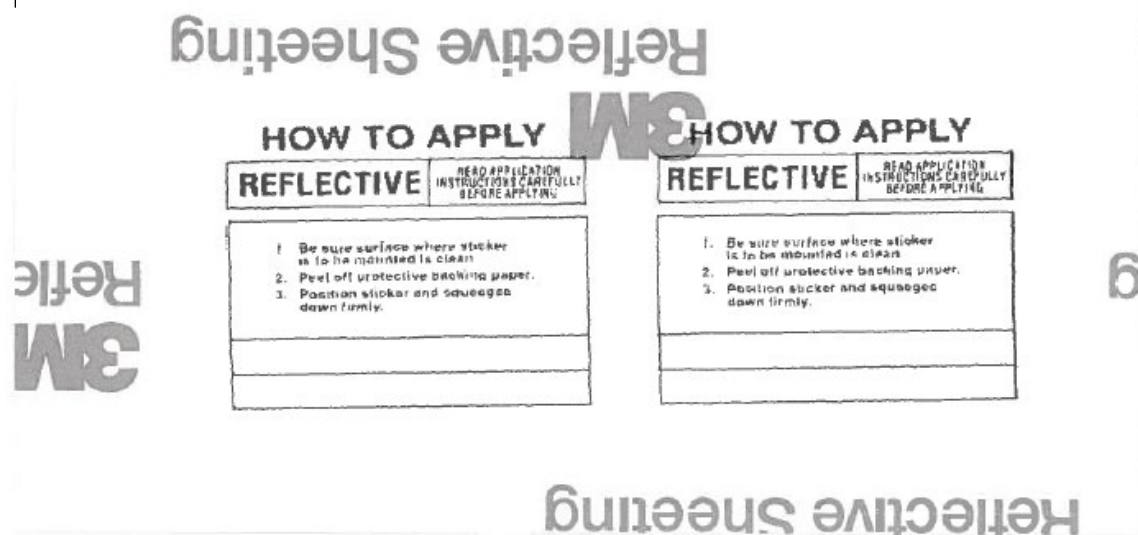
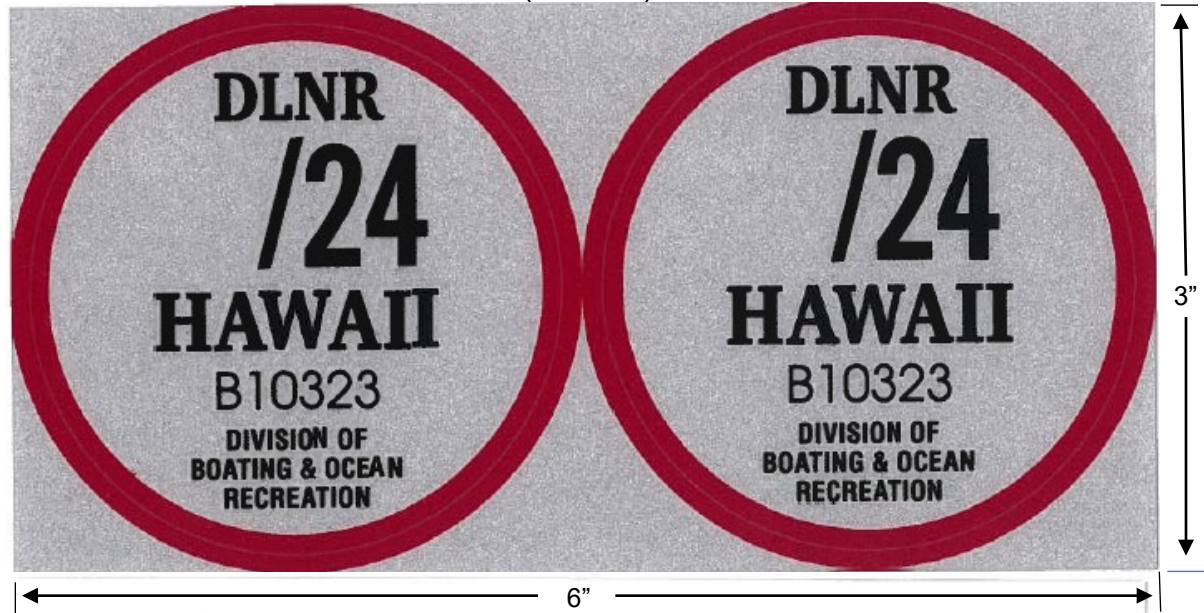
HOW TO APPLY

REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING
1. One set of decals per item. 2. Choose decal location. 3. Be sure surface where decal is to be mounted is clean. 4. Peel off protective backing paper. 5. Position decal and squeegee down firmly.	

DOBOR Commercial Decals 2028 - Job No. 26.10

ITEM NO. 2 ANNUAL COMMERCIAL BLANK DECAL

(FRONT)



(BACK)

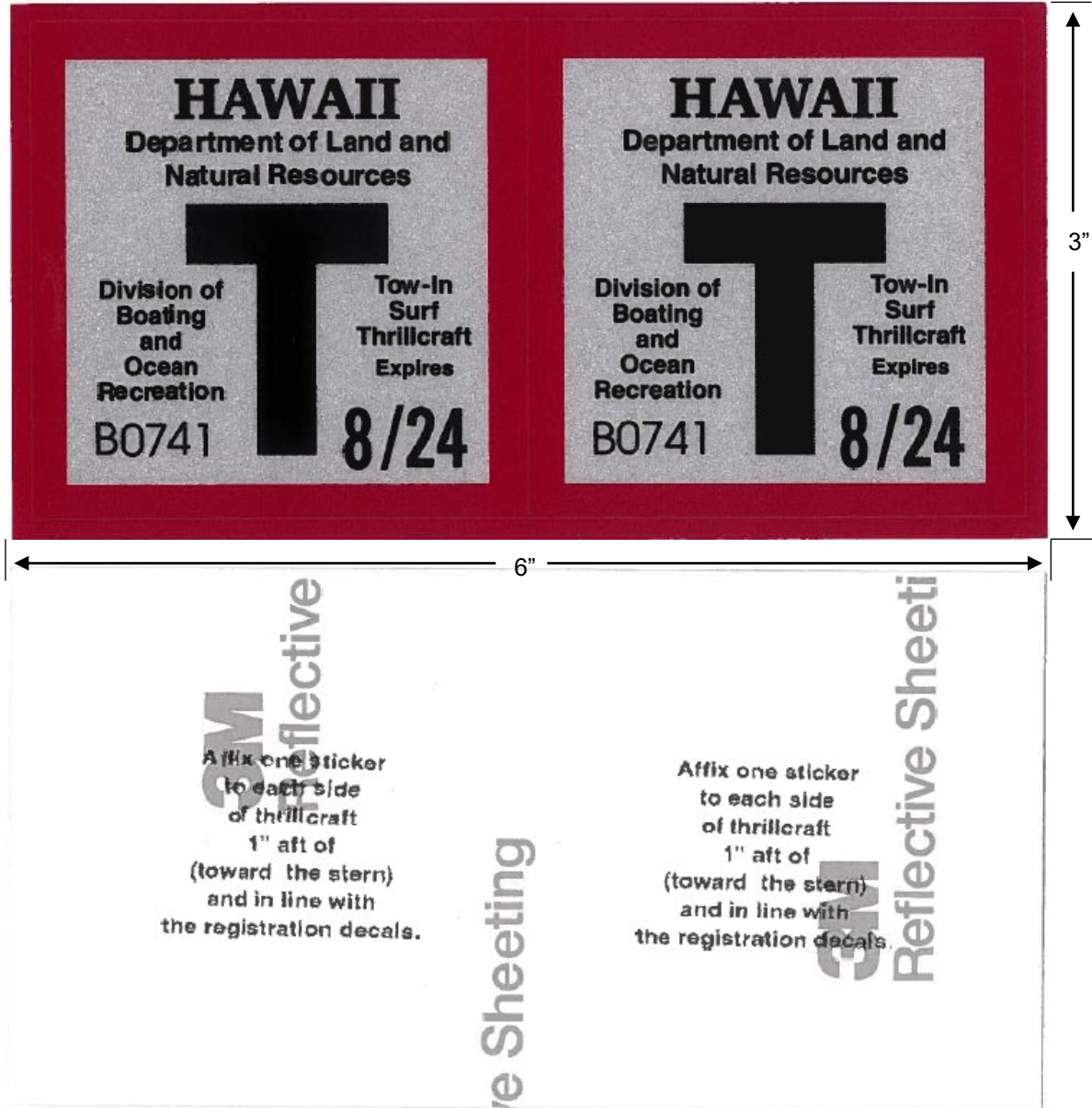
HOW TO APPLY	
REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING
1. One set of decals per item. 2. Choose decal location. 3. Be sure surface where decal is to be mounted is clean. 4. Peel off protective backing paper. 5. Position decal and squeegee down firmly.	

HOW TO APPLY	
REFLECTIVE	READ APPLICATION INSTRUCTIONS CAREFULLY BEFORE APPLYING
1. One set of decals per item. 2. Choose decal location. 3. Be sure surface where decal is to be mounted is clean. 4. Peel off protective backing paper. 5. Position decal and squeegee down firmly.	

DOBOR Commercial Decals 2028 - Job No. 26.10

ITEM NO. 3 ANNUAL TOW-IN DECAL

(FRONT)



(BACK)

HOW TO APPLY

Affix one decal to each side of thrill craft 1" aft (toward the stern) and in line with the registration decals.

HOW TO APPLY

Affix one decal to each side of thrill craft 1" aft (toward the stern) and in line with the registration decals.