



A CSW Industrials Company

# INSTALLATION INSTRUCTIONS

## 4010C

### IllumiTread™ Photoluminescent Handrail Strips



#### IMPORTANT

The following instructions are very important.

Read them carefully, and be sure you understand them completely before you begin any work. Store this product in the horizontal position in a clean, dry location. This is a finished product. Store this product in a protected area. Do not stack anything on top of this product. Review approved Balco shop drawings for types and locations prior to beginning work.

#### RECOMMENDED TOOLS

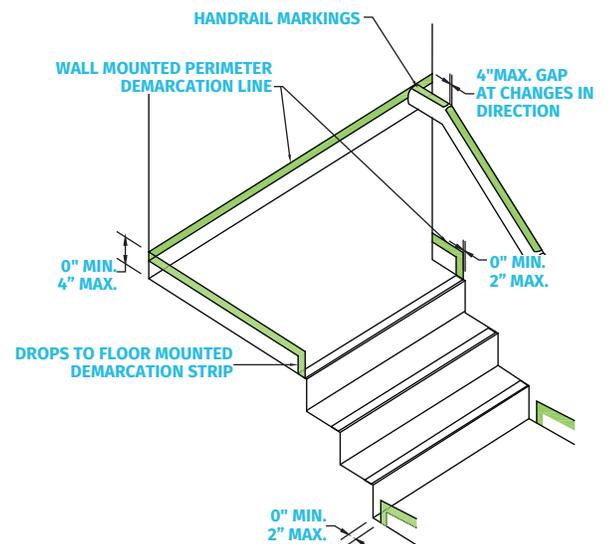
CLEAN RAGS / TAPE MEASURE / CHOP SAW WITH NON-FERROUS METAL CUTTING BLADE / FINE TOOTHED HACKSAW  
CLEAN CLOTH / 50/50 SOLUTION OF RUBBING ALCOHOL AND WATER / CAULKING GUN / ADHESIVE / HARD RUBBER ROLLER

#### IMPORTANT NOTE:

Photoluminescent handrail strips are to be placed on top of the handrails, including handrail extensions and newel post caps, for their entire length.

Where handrails or handrail extensions bend or turn corners, any gap in the photoluminescent handrail strip shall not exceed 4 inches (102mm).

When installing Balco 4010C photoluminescent handrail strips, ensure the temperature of both the handrail strip and the handrail surface to receive it are 60°F (16°C) or warmer.



# 4010C ILLUMITREAD™ PHOTOLUMINESCENT HANDRAIL STRIPS

## STEP ONE

Ensure that the surface to receive the handrail strip is free of dust, oil, and other contaminants. Wipe areas to receive strip with a 50/50 solution of alcohol and water. Routinely replace cleaning cloth to ensure proper cleaning.

Cleaning oil or greasy residue from a substrate may require a stronger solvent, such as acetone or naphtha. Select a solvent appropriate for the substrate. Spot test any solvents used on an inconspicuous area to ensure it does not damage substrate. Follow all appropriate precautions for handling, storage, use, and disposal of solvents.

Allow any cleaning products used to completely evaporate from the substrate prior to applying the demarcation strip.

## STEP TWO

Select the handrail strips. Cut strips to the desired configurations. Before cutting, review lengths required on the project and determine the best use of the material to minimize drop.

Use a miter saw with a non-ferrous metal cutting blade or a hacksaw with a fine-toothed blade to cut the strips.

Handrail strips should be cut from the top.

Ensure that the handrail strips have no sharp edges at their ends. File the strip ends if necessary, to remove sharp edges and burrs.

## IMPORTANT NOTE:

Do not use tin-snips, abrasive saws, or shears to cut handrail strips.

## STEP THREE

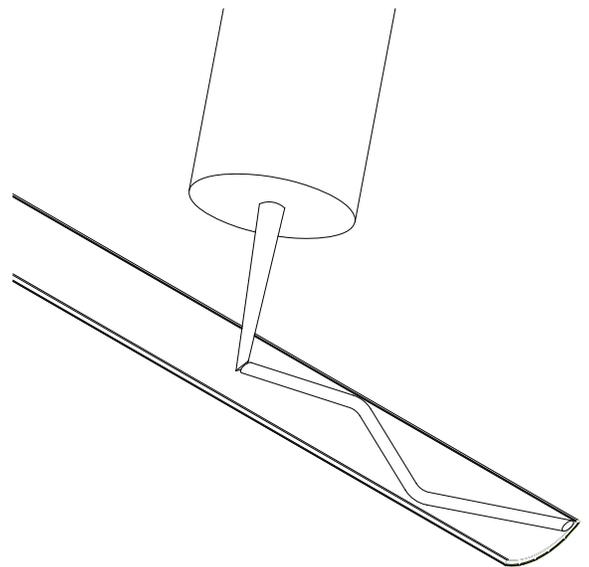
Select a handrail strip and adhesive.

Apply the adhesive liberally to the back surface of the demarcation strip.

A zig-zag or other pattern for application of the adhesive may be used.

## BALCO RECOMMENDS:

Bostik 1100FS construction adhesive (by others) or equal for installation of handrail strips. Contact factory for more information.



# 4010C ILLUMITREAD™ PHOTOLUMINESCENT HANDRAIL STRIPS

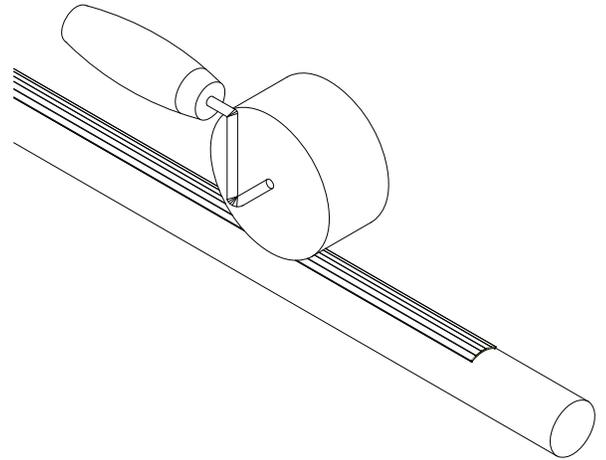
## STEP FOUR

Press the demarcation strip into its installed position at the desired location on the handrail.

Ensure that the strip is positioned so as to maximize the contact area between the adhesive and the receiving surface.

Use a hard rubber roller to apply firm, even pressure across the entire length of the handrail strips. Ensure that the applied pressure is sufficient to ensure spreading of the adhesive and complete contact of the strip with the substrate, but not excessive so as to cause the adhesive to ooze out from the bottom of the strip.

Use a damp cloth to clean up any adhesive that oozes out from under the strip.



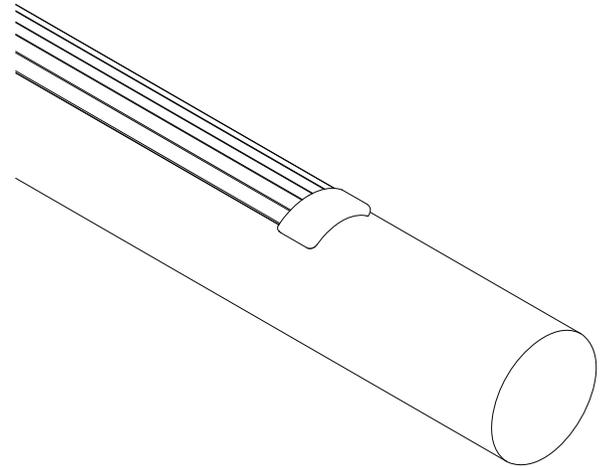
## STEP FIVE

Select the provided end caps.

Apply a dime-sized amount of adhesive to the underside of the end cap and press it firmly into its installed position.

Use a damp cloth to clean up any adhesive that oozes out from under the end cap.

Repeat **STEPS ONE THROUGH FIVE** until all strips and end caps are installed.



## CLEANING

To ensure optimum performance, Balco recommends cleaning photoluminescent demarcation with a non-alkaline cleaner and a soft cloth or sponge and drying, as needed. Recommended cleaning a minimum of once a year or more, depending on use and environment.

## IMPORTANT NOTE:

Minimum illumination to charge the photoluminescent demarcation shall be not less than 11 lux (1 footcandle) for one (1) hour.

Insufficient ambient illumination will result in failure of the photoluminescent demarcation to charge and to photoluminesce.

Ensure that the source lighting is controlled by authorized personnel only.

Maintain adequate light level and duration to properly activate photoluminescent components.

IBC 1025.5 requires not less than 1 footcandle (11 lux) of illumination for not less than 60 minutes prior to periods when the building is occupied and continuously during occupancy.