



# Sure-Weld<sup>®</sup> TPO Walkway Rolls



## Overview

Carlisle's Sure-Weld heat-weldable Walkway Roll is designed to protect the Sure-Weld TPO membrane in areas exposed to repetitive foot traffic and other hazards. Walkways must be installed at all traffic concentration points (i.e. roof hatches, access doors, rooftop ladders, etc.) regardless of traffic frequency. Walkways must also be installed if regular maintenance (once a month or more) is necessary to service rooftop equipment.

Carlisle Sure-Weld Walkway Rolls are part of the Certified Fabricated Accessory (CFA) program. Certified Fabricated Accessories are the only factory-fabricated TPO accessories that meet the stringent quality tolerances required to be included in a Carlisle warranted roofing system.

## Features and Benefits

- » Increased slip resistance created with a diamond plate tread pattern
- » Walkway edges are trimmed in safety yellow to better define the designated traffic flow
- » The yellow edges are smooth without tread lugs for easier welding
- » Superior weathering package for long term performance
- » Stocked in white, tan and gray, special colors available (minimum quantities apply)

## Installation

1. Use Weathered Membrane Cleaner to prepare the membrane to be welded to the walkway material.
2. Position the walkway material. Cut the Walkway Rolls into maximum 10' lengths and position with a minimum 1" gap between adjacent pieces to allow for water drainage. Cut the walkway so a 4" minimum gap is created over any field splices. Since the attachment of the walkway to the membrane is permanent, this will allow access to the field seams.

3. Using an automated welder, **weld all four sides of the walkway material to the membrane.** Typically the same speed and temperature settings will be used for this procedure as for welding membrane to membrane. A test weld is always recommended prior to performing welds to the installed membrane. A hand held welder may be utilized, however, productivity will be decreased.

*Review Carlisle specifications and details for complete installation information.*

## Precautions

- » Walkway Rolls are a maintenance item and are not covered under the Carlisle membrane systems warranty.
- » This product is to be used as a walkway only and is not designed as a perimeter warning line or a substitute for ballast. Walkway rolls cannot be installed within 10' (3m) of the roof perimeter.
- » Allow the walkway to relax and warm up in the sun prior to welding in place.
- » When possible, weld the walkway rolls when the ambient temperature is above 60° F (16° C) to help prevent wrinkles.

## Typical Properties and Characteristics

Physical Property	Test Method	Typical Properties	
		Minimum	Maximum
Dimensional Conformance Thickness, in. (mm)	ASTM D412	0.160 (4.06)	0.180 (4.5)
Density, lbs./ft <sup>3</sup> ; (gr/cm <sup>3</sup> ;) )	ASTM D792	80.5 (1.29)	84.3 (1.35)
Tensile Strength, psi (MPa)	ASTM D638	600 (4.1)	
Tear Strength, lbf/in (kN/m)	ASTM D624	100 (17.5)	
Sizes	34" wide x 50' long		
Packaging	9 per skid, each roll individually bagged		
Weight (each)	97 lbs.		
Thickness	80-mil at bottom of tread, 80-mil at yellow welding edge, 170-mil overall		
Color	White, gray and tan		

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

# Sure-Weld® TPO

## Walkway Rolls

### LEED® Information

Pre-consumer Recycled Content	10%
Post-consumer Recycled Content	0%
Manufacturing Location	Greenville, IL

### Radiative Properties for ENERGY STAR®\*, and LEED

	Test Method	White TPO	Tan TPO	Gray TPO
ENERGY STAR – Initial solar reflectance	Solar Spectrum Reflectometer	0.79	0.71	N/A
ENERGY STAR – Initial solar reflectance after 3 years	Solar Spectrum Reflectometer (uncleaned)	0.70	0.64	N/A
CRRC – Initial solar reflectance	ASTM C1549	0.79	0.71	0.46
CRRC – Solar reflectance after 3 years	ASTM C1549 (uncleaned)	0.70	0.64	0.43
CRRC – Initial thermal emittance	ASTM C1371	0.90	0.86	0.89
CRRC – Thermal emittance after 3 years	ASTM C1371 (uncleaned)	0.86	0.87	0.88
LEED – Thermal emittance	PASS	0.90	0.86	0.85
SRI - Initial (Solar Reflectance Index)		99	86	53
SRI - 3 year aged (Solar Reflectance Index)		85	77	48

Solar Reflectance Index (SRI) is calculated per ASTM E1980. The SRI is a measure of the roof's ability to reject solar heat, as shown by a small temperature rise. It is defined so that a standard black (reflectance 0.05, emittance 0.90) is 0 and a standard white (reflectance 0.80, emittance 0.90) is 100. Materials with the highest SRI values are the coolest choices for roofing. Due to the way SRI is defined, particularly hot materials can even take slightly negative values and particularly cool materials can even exceed 100.

\*ENERGY STAR recommends that using the Roof Savings Calculator ([rsc.ornl.gov](http://rsc.ornl.gov)), which factors in both heating and cooling costs, to determine whether a cool roof will be an energy efficient choice for your geographic climate and building type.