

1. General Description

Echo Flow is a cementitious recycled shredded tire insulation block. Mixed with a combination of recycled cement products to produce Echo Flow blocks at a maximum size of 2'x2' with a starting thickness of 2" sloping to 2.5" of compacted rubber.

Echo Flow (Fill) is a non-sloping Echo Flow with a maximum size of 2'x2' and a minimum thickness of 2". Echo Flow is Class A UL Fire rated, SCS Global 93% recycled content certified, Miami Dade NOA approved, accelerated age tested and is installed with Polyset AH-160 adhesive at 6" OC to either concrete or metal roof decks.

Color: Dark Grey

2. Safety Guidelines

Always wear the recommended personal protective equipment.

3. Storage and Packaging

Echo Flow can be stored either inside or outside and does not need to be covered from the elements. Product shelf life is 50 years or more. Echo Flow is sold in pallet quantities with 10 different sizes available.

4. Coverage

Echo Flow will cover an area of up to 2'x2'. Each Echo Flow is sloped and has a minimum thickness of 2" sloping to 2.5". Echo Flow (Fill) is a non-sloping Echo Flow covering an area up to 2'x2' with a minimum thickness of 2".

5. Installation Guidelines

Surface Preparation:

Surfaces receiving an application of Echo Flow must be clean, sound, dry, free of oils and all bond inhibiting compounds of contaminants. Dirt and other build up should be mechanically removed until a clean workable surface is exposed. In addition to the mechanical means of cleaning, other methods may be required to sufficiently clean the roof deck, such as power washing. If the contamination of the roof deck occurs, consult your sales representative.

Mixing:

Non-Applicable

Application:

Echo Flow blocks are installed with 2 continuous beads of Polyset AH-160 adhesive placed 6" OC.

6. Limitations

Minimum application temperature is 40F (4C) and rising. Do not apply over damp or wet roof decks. Do not apply to surfaces with active moisture vapor transmission.



BUILDING UNITS FOR ROOFING SYSTEM
AS TO EXTERNAL FIRE EXPOSURE
<R38782>

Technical Specifications:

Physical Properties	Physical Characteristics	Method of Determination
Thermal Resistance	R-1.3127 per inch	ASTM C-518
Weight	2'x2'x2.5"-3" = 43lbs 2'x2'x3"-3.5" = 51lbs (Fill) non sloping Echo Flow 2'x2'x2" = 36lbs 2'x2'x3" = 46.5 lbs	
Flexural Strength Max Load	189 lbf	ASTM C293
Flexural Strength-Modulus Rupture	43 psi	ASTM C293
Flammability	Pass Class A Fire Rated material ¼" incline	UL 790
Compression testing	56 Days 106 PSI	ASTM C495
Accelerated Age testing (5000 HR Age testing)	<u>Compressive Strength:</u> Prior to aging: 92 PSI Post Aging: 129 PSI <u>Max Load</u> Prior to aging 415 lbf Post aging 367 lbf <u>Modulus of rupture</u> Prior to aging 97 PSI Post aging 86 PSI <u>Depth of span at fracture</u> Prior to weathering: .34" Post weathering: .23" <u>Class 4 Impact Resistance</u> Pass	ASTM C 495 ASTM C 293 UL 2218
Drinking Water sampling	Potable water sample: Drinking water quality	FS 2300
Water Flow rate testing	<u>4" thick sample:</u> 8lbs (pre-wetting) water in 20 seconds 40lbs water in 35 seconds <u>12" thick sample:</u> 8lbs (pre-wetting) water in 55 seconds 40lbs water in 65 seconds	UL test report 4787705846
Recycled Content	93% recycled content at 4" thick	SCS Global
Simulated uplift pressure resistance test	-502.5 psf -292.5 psf -370 psf	TAS-114-95-D

