

# SPRINGSTEP IV (SSIV) PLUS

SSIV – 12041010

SSIV A with ½" Sheet Foam – 12042010

SSIV B with 2" Foam Cubes – 12043010

SSIV C with 2" Foam Cubes with PSA (adhesive) – 12044010

SSIV without Foam - 12049010

## PRODUCT DESCRIPTION

**Springstep IV (SSIV) Plus** – a subfloor comprised of proprietary, high-resin OSB tongue and groove panels, nominally 2' x 2' x 3/4" with crosslinked closed cell polyethylene 3/4" foam underlayment for a total nominal height of 1 1/2" including marley flooring such as Timestep (2 mm thick).

## SIZE & PACKAGING

Panel: **SPRINGSTEP IV PLUS** as manufactured by Stagestep Inc.  
Usable Surface of Panel Dimensions (W x L x H): 23.125" x 23.125" x .5625" (587.375 x 587.375 x 14.3 mm) – 3.7 sf (0.345 m<sup>2</sup>)  
Tongue protrusion: .375" (9.525 mm)  
Total panel width/length including tongue: 23.5" (596.9 mm)

Foam Underlayment: Nominal 3/4" thick XLPE Foam Forms (6 pieces) made of closed cell chemically crosslinked polyethylene foam with adhesive.

Overall Floor Thickness: 1.375" (34.9 mm).  
Weight: 9.3 lbs (4.22 kg)

Bulk packed in oversized 4' x 4' boxes on dedicated pallet.

## INSTALLATION

Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction. See **Stagestep** Installation Guide online:

[stagestep-installation-guide-2025.pdf](#)

Materials must be stored in an area that is fully enclosed and weather-tight, with a permanent HVAC system set to a uniform temperature of 68 degrees F (20 degrees C) and a relative humidity of 50 percent for at least 72 hours prior to and during the installation.

Ensure that moisture tests of the concrete slab have been conducted and meet standard for moisture content. Have the permanent HVAC system turned on and set to a minimum of 68 to 78 degrees F (20 to 25.5 degrees C) and a relative humidity between 40 to 60 percent for a minimum of 72 hours prior to, during and after installation.

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## INSTALLATION (continued)

**Stagestep** recommends a maximum concrete relative humidity of 85% when evaluating concrete with embedded RH probes prior to the gymnasium floor installation. This recommended level ( $\leq 85\%$  RH) allows installation of the floor system with the inclusion of a commonly installed 8 mil polyethylene vapor barrier.

Surface must be smooth and flat to 3/16" in a 10-foot span (4,5 mm in a 3,05-m span). May need to shim if floor is not flat. Humps and depressions will cause undue stress on **SSIV Plus** and may lead to panel failure.

Flooring material must be acclimatized to the installation area for a minimum of 24 hours prior to installation.

Panels are to be installed in a staggered formation with a 1/2" perimeter gap maintained for expansion and moisture escape.

When installing with double-faced tape, it is preferable that the vinyl panels are configured perpendicular to the rows with straight lines.

Use 2 x 4 blocks to tap on groove side and not against tongue. Avoid aggressive tapping so as to not create ridges.

Telegraphing (visible seams) does not affect performance or wear. It is not a defect. Most floating subfloors will telegraph seam lines from below, to some extent.

### PHYSICAL PROPERTIES/TESTING (Wood Panel)

PROPERTIES	TEST METHOD	IMPERIAL	METRIC
Weight	ASTM D751	70 LB/1000 SF	342 KG/100 M2
3" Load at Yield	ASTM D882	92 LBF	409 N
3" Load at Break	ASTM D882	65 LBF	289 N
		3050 psi	21 MPA
3" Elongation at Break	ASTM D882	450%	450%
3" Tensile Strength	ASTM D882	250 LBF	1112 N

### PHYSICAL PROPERTIES/TESTING (Panel with Foam)

PROPERTIES	STANDARD	RESULT
Force Reduction (will vary with different marley surfaces)	ASTM F2569 ASTM F2772	55-60% Class 4
Rolling Load will vary with different marley surfaces)	ASTM F2753 150 lbs per wheel 500 cycles (2670 N total force)	.005-.007 inch

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