

# AttenuWave™ 3/4" SELECT

## PRODUCT DESCRIPTION

BoldStep AttenuWave 3/4" Select features a wide air gap between the subfloor and BoldStep underlayment with an additional layer of high-performance acoustical fabric. It is designed to attenuate airborne and impact sound transmission in the most demanding structures, including open beam warehouses and mass timber construction. AttenuWave 3/4" Select increases IIC levels of the floor ceiling assembly by up to 20 points over standard wood frame construction.

## INTENDED USE

- **Construction Type**  
Multifamily, Light Commercial, Low-Rise Hotels/Motels, Mass Timber
- **Subfloor**  
Interior wood, Concrete, Mass Timber

## FEATURES AND BENEFITS

- Multifamily luxury sound control with additional sound attenuating layer
- Engineered to reduce airborne and impact sound transmission in open beam warehouses, mass timber construction and other noise-inducing environments
- Achieve increases of up to 20 points for IIC ratings in wood frame construction and up to 30 points in concrete construction
- 3/4" (19 mm) profile, with a minimum 1 1/2" (38 mm) reinforced topping for total system height of 2 1/4" (57 mm)

## PRODUCT INFORMATION

<b>Thickness</b>	3/4" (19 mm)
<b>Color</b>	Green with water-resistant grey fabric
<b>Underlayment Depth</b> <small>with BoldStep Reinforcement or BoldStep Fibers</small>	Minimum 1 1/2" (38 mm). See Limitation 3.
<b>Coverage</b>	200 ft² (18.6 m²)/Roll
<b>Weight</b>	46 lbs (18.1 kg)/Roll
<b>Packaging</b>	Roll 60 in. x 40 ft (152.4 cm x 12.2 m)
<b>Installation Environment</b>	Above 50 °F (10 °C) for at least 24 hours
<b>Storage Environment</b>	Keep in a dry, cool place



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## ENVIRONMENTAL IMPACT

Sample USGBC LEED® Credit Areas*		
Project	Credit	Category
Environmental Quality	EQ2	Low Emitting Materials
	EQ4	Indoor Air Quality Assessment
	EQ9	Acoustic Performance

\*Credits may vary depending on project type and BoldStep products used.

For additional information on product's environmental credits and certifications visit [BoldStep.co](http://BoldStep.co).

## UL FIRE RESISTANCE-RATED DESIGNS

UL Design					
L528	L579	L547	L501	L540	M518
L546	M508	L570	L502	L541	M519
L563	L518	L589	L512	L569	G561
L576	L530	M502	L520	L593	G560

  

ULC Design					
L003	L511	M500	M503	M520	I530
L201	L512	M501	M514	M521	I533

For more information on current UL and ULC Designs, contact BoldStep.

## SOUND TEST INFORMATION

International Building Code (IBC) requires a minimum 50 STC/IIC (45 ASTC/AIIC) in multifamily construction. BoldStep underlayments and AttenuWave products are single components of a sound control system. Care must be taken in the selection and installation of all components of construction to ensure the designed acoustical performance. All acoustical testing was done by Architectural Testing; Riverbank Testing Laboratories; Intest, Inc.; Intertek; Twin City Testing Corporation; BoldStep R & D Test Center; D.L. Adams Associates, L.T.D.; Veneklasen Associates; NGC Testing Services; AV Group or JGL Acoustics. For specific sound test information, contact BoldStep for test reports.



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## GENERAL INSTRUCTIONS

- Maintain the interior building temperature and the floor temperature above 50°F (10°C) for at least 24 hours prior to installing the sound mat and until the underlayment topping has fully set.
- Ensure all plumbing and electrical penetrations are packed with insulation and properly sealed.

### Wood Subfloor Preparation

- Verify that wood subfloors are structurally sound, clean, and free of dust or contaminants.
- Apply back-blocking to all non-tongue-and-groove OSB or plywood subfloors.

### Concrete Subfloor Preparation

- Ensure concrete subfloors are structurally sound, fully cured, and free of moisture and efflorescence.
- Test all concrete subfloors for moisture before installing the AttenuWave 3/4" Select sound mat (refer to Limitation 4).
- Substrate surface must be clean and free of dust and contaminants.
- If cracks are present in the concrete prior to installation, consult a structural engineer for remediation recommendations.
- For radiant heating systems:
  - Follow the Radiant Panel Association (RPA) guidelines ([radiantprofessionalsalliance.org](http://radiantprofessionalsalliance.org)).
  - Turn off radiant heating systems 24 hours before and 24 hours after applying ProTerra underlayment.

### Installation Instructions

1. The AttenuWave 3/4" Select is to be loose laid over the entire concrete or wood subfloor.
2. Carefully smooth out the mat to avoid wrinkles.
3. Cut openings as needed for any protrusions to ensure proper coverage.  
**Note: Do not use adhesives, screws, nails, staples, or any fasteners to attach the mat. These can diminish soundproofing efficiency.**
4. Use the built-in zip-strips to connect sections together seamlessly, or secure the connections with AttenuWave Perm Tape.
5. To eliminate flanking paths, apply AttenuWave Perimeter Isolation Strips around the entire perimeter of the room and any penetrations through the sound mat. **Note: These strips can be installed either before or after laying down the AttenuWave 3/4" Select sound mat as long as a seal is created using tape between the sound mat and perimeter strip. See AttenuWave Perimeter Isolation Strip Technical Data Sheet (TDS) at [BoldStep.co](http://BoldStep.co) for further instructions.**



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## INSTALLATION (continued)

6. For transitions between areas with and without a sound mat:
  - A pour stop and isolation strip are recommended.
  - For doorways less than 3' wide - A smooth transition can also be created by continuing the sound mat 12" into the area not intended to receive sound mat.
  - For large transition areas - Using a pour stop and isolation strip is the only method for providing adequate protection against flanking. For relevant detail drawings, contact BoldStep at 800-818-4864.
7. Cover the sound mat with ProTerra underlayment at a minimum depth of 1 1/2" (38 mm) including BoldStep Reinforcement or BoldStep Fibers. See the specific TDS at BoldStep.co for more information. Use tools like a gauge rake to ensure even distribution and desired depth.
8. Refer to the ProTerra underlayment TDS for specific drying times and any floor covering considerations.
9. Once dried, finalize your flooring system with your preferred finish.
10. For all drawings and additional technical resources, contact BoldStep.

## LIMITATIONS

**Following the guidelines below supports optimal performance and durability of AttenuWave 3/4" Select Sound Mat. For general questions, inquiries on other applications or further assistance, contact BoldStep at 800-818-4864.**

1. To ensure optimal sound performance, do not use fasteners such as screws, nails, staples, or any type of adhesive to attach AttenuWave 3/4" Select to wood subfloors.
2. AttenuWave 3/4" Select is not recommended for applications with prolonged contact with water or water vapor unless specifically ordered for exterior use. For more information on suitable applications, please contact BoldStep.
3. AttenuWave 3/4" Select requires approved BoldStep reinforcement products. Contact BoldStep for more information.
4. The general contractor is responsible for conducting moisture testing prior to installation of sound mat and underlayment. Testing methods should comply with flooring manufacturer specifications, typically ASTM F710. If the Moisture Vapor Emission Rate (MVER) exceeds 5 lbs (2.3 kg)/1,000 ft² (92.9 m²)/24 hours or the Relative Humidity (RH) exceeds 80%, treat the subfloor with a moisture-mitigating primer or epoxy. Follow more stringent requirements if specified by the flooring manufacturer and contact BoldStep for additional guidance.
5. AttenuWave sound mats and ProTerra underlayments are non-structural and are not intended to reinforce subfloors that are structurally deficient. The structural floor must be capable of supporting design loads with deflection limitations of L/360. Certain floor coverings may require stricter deflection limits. It is the responsibility of a qualified structural professional, not BoldStep or the applicator, to ensure the subfloor meets these requirements.



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## STORAGE AND DISPOSAL

Product should be stored in original, sealed packaging in a cool, dry environment, protected from humidity and water. Maintain storage temperatures between 50–100°F (10–38°C). Dispose of contents and containers in compliance with all applicable regulations.

## WARRANTY AND TECH SERVICES

For complete warranty information, visit: [BoldStep.co](https://boldstep.co). For technical performance verification or customer service, contact BoldStep at 800-818-4864.

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See [boldstep.co](https://boldstep.co) for complete warranty information. Technical performance verification and service is available through BoldStep or BoldStep Regional Representatives throughout North America.

JOB NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

APPLICATOR: \_\_\_\_\_

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