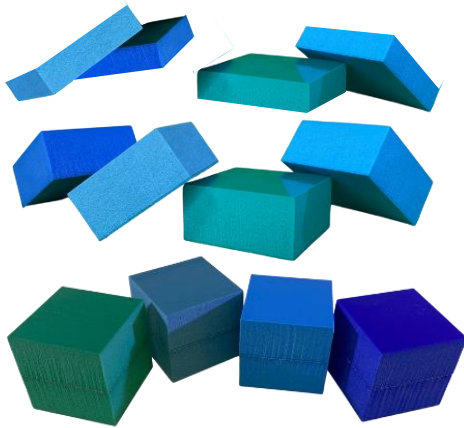




**World Leader in
Noise Control
Solutions**

**PAC-IFB0.5
PAC-IFB1
PAC-IFB2**



Floating floors are a go-to solution when high levels of airborne and impact sound isolation are needed. The PAC-IFB is a discrete isolator for floating floors that is designed to provide high performance in a low-profile form factor. Available in a variety of load ranges with detailed product performance data for all, the PAC-IFB has the data engineers need to create solutions that work. The PAC-IFB is made from the same elastomeric material that's been used for years in Europe for whole-building vibration isolation, so you know it's a reliable long-term solution. Last of all, due to its unique material properties the PAC-IFB can provide low natural frequencies (down to ~7.5 Hz) with minimal deflection (~1/4" for the 2" thick PAC-IFB2).

PAC Floating Floors
A Low Profile, High Performance, Noise Control Solution

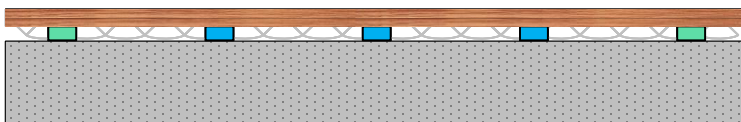
Wood Framed
Steel Framed
Concrete
Sports Floors

Amenity Spaces
Gymnasiums
Performing Arts
Hospitals

Mixed use
Apartments
Commercial
Conference Rooms

Condos
Recording Studios
Cinemas
Mechanical Rooms

STC: 62* IIC: 60 HIIC: 74



*STC rating potentially limited by laboratory flanking.



PAC-IFB specifications:

Acoustical design load:	80Lbs to 240Lbs*
Natural Frequency	≥7.5 Hz
Total deflection	≤ 15%
Low VOC	Yes
Adjustable	No
Cavity min	0.5"
Use on walls	No
Use on ceilings	No
Use on floors	Yes
New Construction	Yes
Retro Fit Construction	Yes

*Custom capacities available upon request.

PAC-IFB Floating Floor System

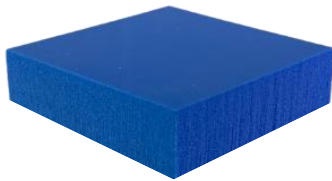
PAC-IFB INSTALLATION GUIDE

PAC
International

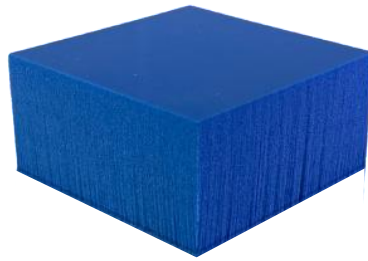
World Leader
in Noise
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Solutions



PAC-IFB0.5



PAC-IFB1



PAC-IFB2



Floating floors are a go-to solution when high levels of airborne and impact sound isolation are needed. The PAC-IFB is a discrete isolator for floating floors that is designed to provide high performance in a low-profile form factor. Available in a variety of load ranges with detailed product performance data for all, the PAC-IFB has the data engineers need to create solutions that work. The PAC-IFB is made from the same elastomeric material that's been used for years in Europe for whole-building vibration isolation, so you know it's a reliable long-term solution. Last of all, due to its unique material properties the PAC-IFB can provide low natural frequencies (down to ~ 7.5 Hz) with minimal deflection ($\sim \frac{1}{4}$ " for the 2" thick PAC-IFB2).

PAC-IFB Floating Floor System

PAC-IFB INSTALLATION GUIDE

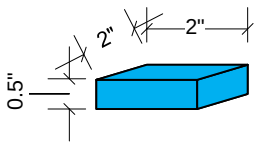
 SD170 80 Lbs	 SD400 172 Lbs
 SD260 116 Lbs	 SD650 240 Lbs

PAC-IFB

- Typical spacing is 16" o.c. for commercial applications and 24" o.c. for residential applications
- Additional isolators should be added under heavy items or focused loads like bathtubs, showers, refrigerators, etc.
- Maximum acoustical design load: 80 to 240Lbs. Ea. (custom capacities available upon request)
- Maximum loads based on 2" x 2" x 2" blocks
- PAC-IFB block version determined by load calculations

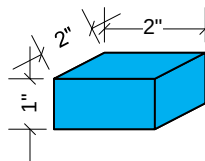
PAC-IFB0.5

- PAC-IFB0.5: 0.5" Tall
- PAC-IFB0.5: 2" Wide
- PAC-IFB0.5: 2" Deep



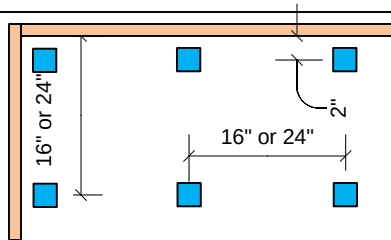
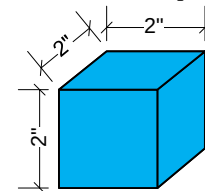
PAC-IFB1

- PAC-IFB1: 1" Tall
- PAC-IFB1: 2" Wide
- PAC-IFB1: 2" Deep



PAC-IFB2

- PAC-IFB2: 2" Tall
- PAC-IFB2: 2" Wide
- PAC-IFB2: 2" Deep



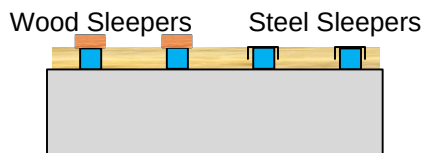
Placement

- Clean and dry floor.
- Mark out isolator placement with chalk lines, marker or laser
- Set blocks on the floor 16" oc or 24" oc.
- Add perimeter isolation gasket, or board.



Insulation (By Others)

- Insulation placed in between PAC-IFB blocks
- R-6.7 or R-8 for PAC-IFB1
- R-6.7 or R-8 for PAC-IFB2
- R-11 + for PAC-IFB2 with sleepers to increase cavity depth



Sleepers (Optional By Others)

- Sleepers can be used to increase the air space and/or to provide stiffeners for the subfloor to be screwed to.
- Wood – Minimum 2x4
- Steel - Minimum 2.5" x 33mil track



Subfloor (By Others)

- 2 layers of 3/4" plywood glued and screwed to each other with 1-1/2" coarse-thread wood screws.
- Other materials such as cementitious subfloors and metal corrugated deck may also be used. See PAC for details.

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PAC-IFB Floating Floor System

PAC-IFB INSTALLATION GUIDE

Site prep and isolator determination:

- Measure overall area for floating floor system.
- Calculate live and dead load requirements.
- Send load information and desired buildup to PAC for review and specifications.
- PAC will send back the recommended PAC-IFB isolator types and spacing.

Plywood buildup floors:

- Completely clean floor of all debris and dust.
- Snap chalk lines, mark isolator positions, or run lasers to mark PAC-IFB locations from PAC drawings.
- 1st row shall be within 2" of the wall. The second row is 24" from the wall.
- Add isolators under heavy items like showers, bathtubs, appliances, cabinets, or any other area where heavy items will have concentrated loads.
- Mark and install perimeter gasket. Gasket should be 1/4" to 1/2" thick and completely cover the wall where the floating floor Plywood may contact the wall.
- Place PAC-IFB on floor following manufacturer recommendations (spray glue adhesive may be used for a temporary hold).
- Lay in fiberglass or tested equivalent insulation between PAC-IFB
- Verify Block locations. Adjust any blocks that may have moved.
- Optional: When sleepers are used, glue and screw the first layer of plywood to the sleepers. Plywood or PAC IFB layout should be adjusted to allow the sleepers to be under the plywood seams.
- Lay down first layer of plywood with seams in between the PAC IFB blocks.
- Cut the first piece of the second layer of plywood to 2 ft x 4 ft piece.
- Spread adhesive on the plywood and lay down the first piece of the second layer. Adjust the outside corner to line up with the first layer, then fasten the 2' x 4' piece to the first layer of plywood with 1-1/2" wood screw.
- Screws spaced at 12" oc. max.
- Install the rest of the second layer of plywood one piece at a time.
- Completely screw each layer of plywood as you go
- Install the finished flooring per flooring manufacturer recommendations.

PAC -IFB Floating Floor System

PAC-IFB INSTALLATION GUIDE

Site Prep and Isolator evaluation:

- Measure overall area for floating floor system
- Calculate live and dead load requirements
- Send load information and desired build up to PAC for review and specifications
- PAC will send back recommended PAC-IFB load range and spacing.

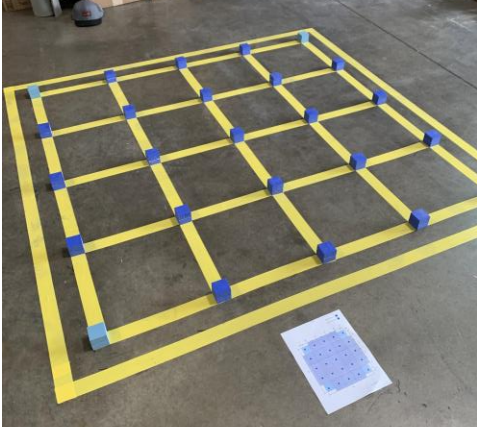
Plywood build up floors:

- Completely clean floor of all debris and dust.
- Snap chalk lines, mark Isolator positions or run lasers to mark PAC-IFB locations from PAC drawings.
- 1st row shall be within 2" of the wall. The second row is 24" from the wall.
- Add isolators under heavy items like showers, bathtubs, appliances, cabinets, or any other area where heavy items will have concentrated loads.
- Mark and install perimeter gasket. Gasket should be 1/4" to 1/2" thick and completely cover the wall where the floating floor Plywood may contact the wall.
- Place PAC-IFB on floor following manufacturer recommendations. (spray glue adhesive may be used for a temporary hold)
- Lay in fiberglass or tested equivalent insulation between PAC-IFB
- Verify Block locations. Adjust any blocks that may have moved.
- Optional: When sleepers are used, glue and screw the first layer of plywood to the sleepers. Plywood or PAC IFB layout should be adjusted to allow the sleepers to be under the plywood seams.
- Lay down first layer of plywood with seams in between the PAC IFB blocks.
- Cut the first piece of the second layer of plywood to 2 ft x 4 ft piece.
- Spread adhesive on the plywood and lay down the first piece of the second layer. Adjust the outside corner to line up with the first layer, then fasten the 2' x 4' piece to the first layer of plywood with 1-1/2" wood screw.
- Screws spaced at 12" oc. max.
- Install the rest of the second layer of plywood one piece at a time.
- Completely screw each layer of plywood as you go
- If needed lay in any concrete support like rebar or wire mesh.
- Verify the perimeter is isolated from the wall and the concrete can not seep through any gaps.
- Pour concrete over plywood.
- Install the finished flooring per flooring manufacturer recommendations.

PAC -IFB Floating Floor System

PAC-IFB INSTALLATION PICTURES

Layout



- Mark and layout floor.
- Chalk, Pen or laser.
- Spray Glue may be used for a temporary hold to the floor

Insulation

- Lay insulation between PAC-IFB blocks



Plywood



- Install the plywood one layer at a time.
- Glue and screw the layers together

PAC -IFB Floating Floor System

PAC-IFB INSTALLATION PICTURES

PAC-IFB1
1" air gap 2.5" overall build.



PAC-IFB2
2" air gap 3.5" overall build.



PAC-IFB2 plus sleepers
3.5" air gap 5" overall build.



PAC -IFB Floating Floor System

PAC-IFB INSTALLATION PICTURES

PAC-IFB1 1" air gap 2.5" overall build.



R3080.03 (Intertek)

STC: 62 IIC: 57 HIIC: 64

CONSTRUCTION

- Bare
- 2 Layers 3/4" (19mm) OSB
- 3-Ply CLT Pedestal (76mmx89mmx813mm)
- PAC-IFB1 (25mmx89mmx51mm)
- 3-1/2" (89mm) Insulation
- 3-Ply CLT (90mm)
- 5-Ply CLT (150mm)

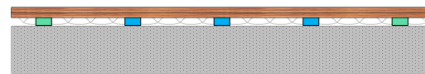


TL22-213 & IN22-031 (RAL)

STC: 62* IIC: 60 HIIC: 74

CONSTRUCTION

- Bare
- 2 Layers 3/4" (19mm) Plywood
- PAC-IFB1 (25mmx50mmx50mm) @ 16" o.c. (406mm)
- 2-1/2" (65mm) Fiberglass Insulation
- 5-3/4" (146mm) Concrete Slab



*STC rating potentially limited by laboratory flanking.

PAC-IFB2 2" air gap 3.5" overall build.

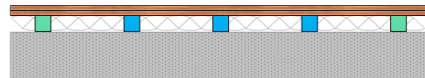


TL22-214 & IN22-032 (RAL)

STC: 61* IIC: 62 HIIC: 73

CONSTRUCTION

- Bare
- 2 layers 3/4" (19mm) Plywood
- PAC-IFB2 (50mmx50mmx50mm) @ 16" o.c. (406mm)
- 2-1/2" (65mm) Fiberglass Insulation
- 5-3/4" (146mm) Concrete Slab



*STC rating potentially limited by laboratory flanking.

PAC-IFB2 plus sleepers 3.5" air gap 5" overall build.

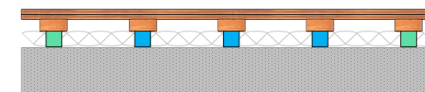


TL22-215 & IN22-033 (RAL)

STC: 62* IIC: 62 HIIC: 74

CONSTRUCTION

- Bare
- 2 layers 3/4" (19mm) Plywood
- 2x4 Wood Sleepers @ 16" o.c. (406mm)
- PAC-IFB2 (50mmx50mmx50mm) @ 16" o.c. (406mm)
- 2-1/2" (65mm) Fiberglass Insulation
- 5-3/4" (146mm) Concrete Slab



*STC rating potentially limited by laboratory flanking.



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SECTION 13 48 00

PAC INTERNATIONAL, LLC.
CANBY, OR – LAS VEGAS, NV.

1. Product Name

- PAC-IFB
 - PAC-IFB Isolation floor block.

2. Work Included

- Furnish all labor, materials, tools, and equipment; and, perform all operations necessary for the complete execution of the installation of PAC-IFB isolation systems as shown on contract drawings and/or indicated in contract documents.

3. Related Work may include:

- Caulking 079200, Concrete 033000, Sound absorbing materials, MEP, Floor drains.

4. Manufacturer

PAC International, LLC
Canby, OR 97013
Las Vegas, NV 89130
Phone: (866) 774-2100
Fax: (866) 649-2710
Email: info@pac-intl.com
Web: www.pac-intl.com

5. Product Description

PAC-IFB Floating floor isolation

The PAC-IFB is designed for use over framed or concrete floor systems where high levels of noise either airborne or structure-borne need to be reduced or stopped.

The PAC-IFB stops the noise and vibrations that typically would be allowed to transfer through the structure.

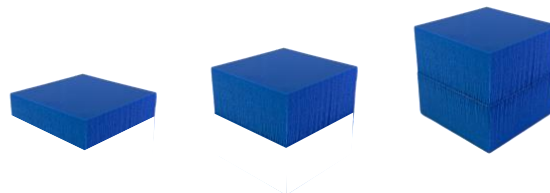
Materials and Composition

The PAC-IFB is a polyurethane foam formed or trimmed to the designed size and shape. All isolation materials are provided by PAC International, LLC.

Environmental Considerations

The PAC-IFB may contribute to LEEDS points, by reducing materials needed to achieve high STC and IIC floor ceiling systems. Natural frequency ≤ 7.5 Hz. Total deflection $\leq 15\%$. The foam can be recycled.

PAC-IFB0.5 PAC-IFB1 PAC-IFB2



Weight-bearing Information

With an acoustical design load rating between 92 and 280 pounds per isolator the PAC-IFB can be oriented or sized to meet all your requirements. The PAC-IFB is installed directly over the framed floor, finished floor or concrete slab.

Product Limitations

For interior use only with operating temperatures of 40–100 degrees F (4.4–37.8 degrees C).

6. Technical Data

Division: 134800

Applicable Standards

ASTM International (ASTM)

- **ASTM E90** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- **ASTM E492** Standard Test Method for Laboratory Measurement of Impact Sound Transmission Loss of Building Partitions and Elements
- **ASTM E413** Classification for Rating Sound Insulation

5. Installation

General installation:

follow the manufacturer's specific installation instructions. Install as required by UL fire resistive design.

- Clean the Floor where PAC-IFB are going to be installed.
- Install the PAC-IFB directly over the framed or concrete floor. Spray glue may be use for a temporary hold.



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SECTION 13 48 00

PAC INTERNATIONAL, LLC.
CANBY, OR – LAS VEGAS, NV.

- Space the PAC-IFB according to the manufacturer's recommendations for your application.
- Install fiberglass or equivalent insulation between the PAC-IFB blocks.
- Install two layers of plywood over the PAC-IFB and insulation.
- Typical spacing 16" oc. X 16" oc, or 24" x 24" oc.
- Plywood:
 - Install perimeter tape or isolation before installing plywood over PAC-IFB.
 - Overlap plywood and offset seams by a minimum of 24".
 - Secure plywood to each other with construction adhesive and screws
 - All seams are between PAC-IFB isolators.
- Concrete topping:
 - Install perimeter tape or isolation before installing plywood over PAC-IFB.
 - Overlap plywood and offset seams by a minimum of 24".
 - Pour concrete or Lt Wt Gypsum concrete to the desired thickness.
 - Follow Concrete and Lt Wt Gypsum concrete manufacturers' recommendations for thickness, strength, and finish options.
- Flanking Noise:
 - Review installation details to prevent structure-borne flanking noise
 - Do not allow plywood or poured-in-place toppings to contact wall framing.
- Finished Flooring:
 - Install all finished flooring per manufacturers' recommendations leaving a 1/8" to 1/4" gap between the floor and the wall.
- Acoustical Sealant:
 - Seal potential air leaks with acoustical sealant to achieve best field results.

6. Availability and Cost

Please contact PAC International, LLC. for availability and pricing information.

7. Warranty

PAC-IFB clips are guaranteed free of manufacturer defects. Only remedy is the replacement of the defective component or components. The manufacturer is not liable for delays or extra costs.

8. Maintenance

No maintenance is necessary.

9. Technical Services

PAC International LLC. offers online product pages, installation guides, and specification sheets.

Technical information can be found on the website, www.pac-intl.com www.pacinternationalllc.com or by calling 866-774-2100

Fire ratings, sound test assemblies, CAD drawings, assembly drawings and clip specifications are also on the PAC website.

10. Filing Systems

- Additional product information is available from the manufacturer upon request

11. Shop Drawings

- All drawings will be approved to PAC International for review.
 - Isolator spacing and size will be determined by PAC International.

11. Substitutions

- An alternative for the PAC-IFB made from fiberglass, rubber, cork or other materials will not be allowed.



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LEED Analysis
PAC-IFB

Recycled Content

PAC International's PAC-IFB does not contain significant recycled content.

Fabrication Location

The PAC-IFB is manufactured and ships from in Canby, OR 97013

Material Source

The extraction points for the materials in these products cannot be verified. Assume they are outside the 500 mile radius.



RSIC ® Safety Data Sheet

Article Statement

(PAC International, LLC Wall and Ceiling Isolation Products)

This document is provided for clarification of the Safety Data Sheets that you have requested for our product(s). OSHA Hazard Communication Standard requires a SDS for hazardous chemicals; however, the standard exempts all articles from the requirement. The explanation of an article is described per OSHA definition below.

Pursuant to 29 CFR 1910.1200 (b) (6) (v) and (c), the product described herein is an “article” or is otherwise excluded from OSHA regulations requiring that a Material Safety Data Sheet be prepared for it.

An article defined: manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacturing; (ii) which has an end use function (s) dependent in whole or in part upon its shape or design during end use; and (iii) which does not release, or otherwise result in exposure to, a hazardous chemical under normal conditions of use.

For technical information and additional resources covering these products please refer to PAC International published literature, e.g., data sheets, product drawings, and installation guidelines at www.PacInternationalLLC.com

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation of law or fact, with respect to such information, is intended or given.



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RSIC Product Warranty Disclaimer

WARRANTY DISCLAIMER AND LIABILITY LIMITATION LANGUAGE

WARRANTY AND DISCLAIMER AND LIABILITY LIMITATION LANGUAGE ONE YEAR WARRANTY Seller warrants to the original purchaser that its products are free from defects in material or workmanship for one year from the date of purchase from seller. Any allegedly defective product that is portable must be returned to seller prepaid. If upon examination it appears to seller's satisfaction that the product is defective, seller shall repair, replace, or return the purchase price of the product at seller's option. EXCEPT FOR THE FOREGOING, THERE IS NO OTHER WARRANTY, REPRESENTATION OR CONDITION OF ANY KIND; AND ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS EXCLUDED AND DISCLAIMED. Some states do not allow limitations on implied warranties, so the above limitation may not apply to you.

LIABILITY LIMITED TO RETURN OF PURCHASE PRICE

IT IS AGREED THAT SELLER'S LIABILITY AND PURCHASER'S SOLE REMEDY, WHETHER IN CONTRACT, UNDER ANY WARRANTY, IN TORT (INCLUDING NEGLIGENCE), IN STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE RETURN OF THE AMOUNT OF THE PURCHASE PRICE PAID BY PURCHASER, AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, PERSONAL INJURY, PROPERTY DAMAGE, DAMAGE TO OR LOSS OF EQUIPMENT, LOST PROFITS OR REVENUE, COSTS OF RENTING REPLACEMENTS AND OTHER ADDITIONAL EXPENSES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE PRICE STATED FOR THE EQUIPMENT IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY AND PURCHASER'S REMEDY. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

SELLER NOT LIABLE FOR PURCHASER'S NEGLIGENCE

SELLER WILL NOT BE LIABLE FOR ANY DAMAGES, LOSSES OR EXPENSES AS A RESULT OF PURCHASER'S NEGLIGENCE, WHETHER DEEMED ACTIVE OR PASSIVE AND WHETHER OR NOT ANY SUCH NEGLIGENCE IS THE SOLE CAUSE OF ANY SUCH DAMAGE, LOSS OR EXPENSE.

MODEL FOR DEMONSTRATION PURPOSES ONLY

THE MODEL OR SAMPLE SHOWN BY SELLER TO BUYER IS USED FOR DEMONSTRATION PURPOSES ONLY. THERE IS NO WARRANTY THAT THE GOODS AS DELIVERED SHALL CONFORM TO THE MODEL OR SAMPLE, AND CONFORMITY OF THE GOODS TO THE MODEL OR SAMPLE IS NOT PART OF THE BASIS OF THE BARGAIN BETWEEN SELLER AND BUYER.

NO WARRANTY OR COMPLIANCE WITH SAFETY CODE OR REGULATION

SELLER DOES NOT WARRANT THAT ANY OF THE GOODS SOLD WILL MEET OR COMPLY WITH THE REQUIREMENTS OF ANY SAFETY CODE, BUILDING OR DWELLING CODE, OR REGULATION OF ANY STATE, MUNICIPALITY OR OTHER JURISDICTION.

NEVADA LAW APPLIES

SELLER AND BUYER AGREE THAT ALL ASPECTS OF THIS TRANSACTION INCLUDING THE APPLICABLE STATUTE OF LIMITATIONS SHALL BE GOVERNED BY THE INTERNAL LAW OF THE STATE OF NEVADA, AND NOT THE LAWS OF CONFLICTS.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state