

PAC-IFB Floating Floor System

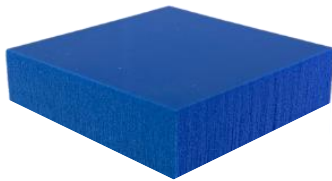
PAC-IFB INSTALLATION GUIDE

PAC
International

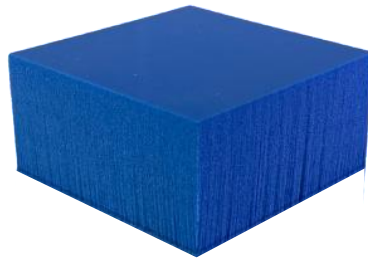
World Leader
in Noise
Control
Solutions



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 ($\sim 1/4$ " for the 2" thick PAC-IFB2).

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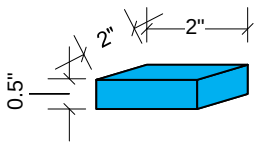
 SD170 80 Lbs	 SD400 172 Lbs
 SD260 116 Lbs	 SD650 240 Lbs

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

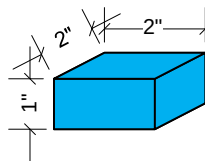
PAC-IFB0.5

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



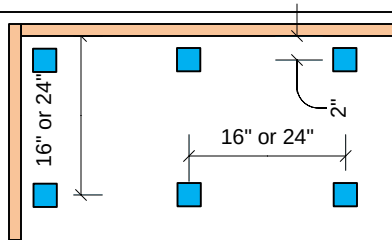
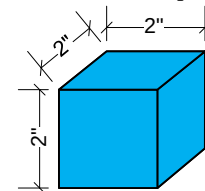
PAC-IFB1

- 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



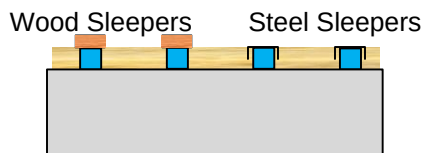
Placement

- 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.

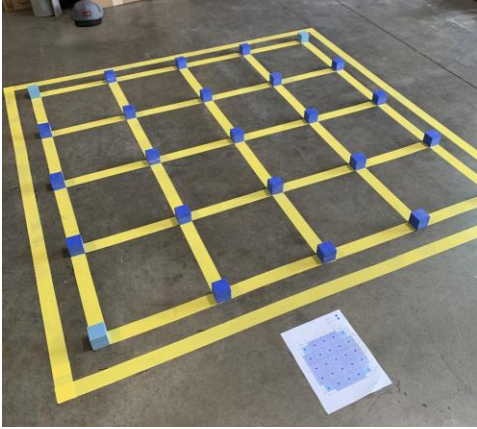
Plywood build up floors:

- 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)

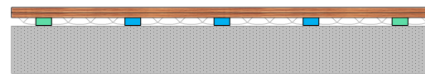


TL22-213 & IN22-031 (RAL)

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.

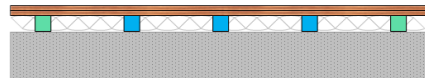


TL22-214 & IN22-032 (RAL)

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.

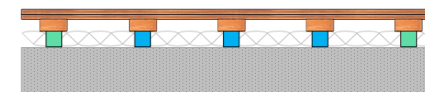


TL22-215 & IN22-033 (RAL)

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.