



VERSION 18.1

SPECIFICATION INFORMATION
"THERMAL INSULATION"
DIVISION
07 21 00

R-WALL® NEOPOR® CONTINUOUS INSULATION

1 PRODUCT NAME

Product Name: R-Wall® Neopor®
Continuous Insulation

2 MANUFACTURER

ISI BUILDING PRODUCTS

401 Truck Haven Road, East Peoria Illinois 61611
Phone: 866.698.6562 / Fax: 309.698.0065 / www.isibp.com

3 PRODUCT DESCRIPTION

3.1 BASIC USE

R-Wall Neopor continuous insulation (CI) panels are designed to be attached to the interior side of exterior concrete walls or CMU providing a superior alternative to rigid insulation board in a multi-step z-furring system.

3.2 COMPOSITION & MATERIALS

R-Wall Neopor is manufactured from Neopor rigid thermal insulation with 25 gauge steel furring strips (G-60) embedded at either 16" or 24" on center.

3.3 SIZE

Thicknesses: 1", 1½", 2", 2½", 3"
Standard Size: 4' x 8'

3.4 WEIGHT

R-Wall Neopor weighs approximately 8½ lbs. per sheet, depending on thickness and density.

4 TECHNICAL DATA

4.1 APPLICABLE STANDARDS

ASTM C 578 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation

ASTM C 645-99 Standard Specification for Nonstructural Steel Framing Members

ASTM C 754-99 Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products

ASTM A 653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials

5 INSTALLATION

5.1 RECOMMENDATIONS

Installation of R-Wall Neopor should be consistent with methods described in the noted standards and references as indicated below.

5.2 WALL AND FLOOR PREPARATION

Examine wall surface for compliance with requirements for installation tolerances and other conditions affecting performance of insulating panels.

Examine floor for levelness. If floor is not level, make necessary adjustments to insure panels are installed level across the wall surface.

5.3 PLACEMENT

Begin installation of R-Wall Neopor at a corner. Level/plumb panel prior to attaching. Install panel with placement of steel furring near enough to corner for drywall attachment or other means, which are acceptable by local code authorities.

For horizontal installation of R-Wall Neopor, insure secure attachment of drywall is available at floor, ceiling and/or roof.

Install fasteners approximately 4" from the end of each steel furring strip and at 16" or 24" spacing between. Shoot pin directly through solid area of furring strip. If threaded fastener is required, install through hole provided.

5.4 RECOMMENDED FASTENING SYSTEMS

Typically, a powder actuated tool with appropriate load and pin length to provide embedment consistent with manufacturer's recommendations for secure attachment. Pin head should be tight against furring strip without disfiguring the furring strip.

Butt adjacent R-Wall Neopor tightly along 8' edge and fasten. Note: 48" panels may be +/-1/8". Make proper adjustments for correct placement.

Periodically check R-Wall Neopor for proper vertical and horizontal alignment. Cut R-Wall Neopor to fit around door/window openings. Panels can be cut with razor knife and tin snips, reciprocating saw, hacksaw and circular saw using appropriate carbide tipped or carborundum blade. Install placement of steel stud near enough to edge for drywall attachment or other means, which are acceptable by the local code authorities.

5.5 ELECTRICAL BOXES AND CONDUIT

Press R-Wall Neopor against box or conduit.

Using the impression left on the backside of the panel, cut, router out, or other suitable means, create a chase.

5.6 DRYWALL ATTACHMENT

Attach gypsum board directly to metal furring strips in the R-Wall Neopor using #6 Hi-Lo drywall screws. Use appropriate length screws to securely attach gypsum board spacing each fastener 12" on-center.

These are very general installation instructions. Instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions can be obtained by calling our corporate office at 866.698.6562 or online at www.isibp.com.

PHYSICAL PROPERTIES	THERMAL RESISTANCE		VAPOR TRANSMISSION	WATER ABSORPTION	FLAME SPREAD	SMOKE DEVELOPED
	@40°F	@75°F				
UNIT(S) OF MEASURE	NEOPOR® 1.15 LB DENSITY		PERMS	% BY VOLUME		
ASTM TEST METHOD	ASTM C 518		ASTM E 96	C 272	E 84	E 84
1" R-WALL	4.83	4.48	0.19	<2.5	<25	<450
1.5" R-WALL	7.25	6.72	0.19	<2.5	<25	<450
2" R-WALL	9.66	8.96	0.19	<2.5	<25	<450
2.5" R-WALL	12.08	11.20	0.19	<2.5	<25	<450
3" R-WALL	14.50	13.44	0.19	<2.5	<25	<450

NOTE:

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6 AVAILABILITY AND COST

R-Wall Neopor is sold through construction supply houses and lumberyards across the United States and Canada.

R-Wall Neopor current cost information can be obtained by calling our corporate sales office at 866.698.6562.

7 WARRANTY

Warranty information can be obtained by calling our corporate office at 866.698.6562 or online at www.isibp.com.

8 MAINTENANCE

Requires no maintenance once installed.

9 TECHNICAL SERVICES

Technical information and detailed test results can be obtained by calling ISI Building Products corporate office at 866.698.6562.

10 FILING SYSTEMS

Additional information can be obtained by calling our corporate office at 866.698.6562 or online at www.isibp.com.

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