



AN AIR-TIGHT CASE

Norbord recently asked the NAHB Research Center to compare the air leakage between horizontally installed panels and vertically installed TallWall. There was no comparison – TallWall won hands down, with wall air leakage being reduced by up to 60%. TallWall stretches from floor framing to top plate, making unnecessary horizontal joints a thing of the past.

EVERYBODY WINS

TallWall can save you labor and material costs while simplifying the application of wall sheathing. It also delivers a higher quality build, improved comfort, better indoor air quality and higher resale value. With so many benefits for the homebuilder and homebuyer, you'd be hard pressed to find a reason *not* to switch.

BUILD ENERGY EFFICIENCY INTO EVERY HOUSE

PLUG THE HOLES IN YOUR BUILDING STRATEGY – GO VERTICAL – USE THE ORIGINAL AND TESTED TALLWALL PANEL

Also available in either FSC or SFI CoC



ENERGY, COMFORT, SAFETY AND RESALE VALUE IS ON HOMEBUYERS' MINDS.

They want lower energy costs, better indoor air quality and, improved resale value. Air leakage decreases the comfort of a residence by allowing moisture, cold or hot drafts, and unwanted noise to enter. Air infiltration can reduce indoor air quality by permitting dust and airborne pollutants into the home.

BUILDERS WHO TAKE THESE CONCERNS SERIOUSLY STAND TO BENEFIT SIGNIFICANTLY – SIMPLY BY DELIVERING A BETTER HOUSE FOR THE MONEY.

www.TallWallOSB.com

- » REDUCED WALL AIR LEAKAGE
- » LOWER ENERGY COSTS
- » 38% INCREASE IN WALL STRENGTH
- » LOWER LABOR COSTS
- » LESS WASTE

TALLWALL®

4x10 & 4x9 OSB WALL SHEATHING

OUR STRENGTH IN NUMBERS

Walls built with TallWall OSB are up to 38% stronger, and we can prove it. We had 24 wall specimens* evaluated by an independent testing laboratory to determine their ultimate strengths, stiffness and displacement capacities. The results show TallWall OSB panels "...have a significant benefit to the structural performance of the wall."

Capacity (compared to 4x8 panels)

4x10 TallWall	on 9' wall	+35%
4x9 TallWall	on 8' wall	+22%

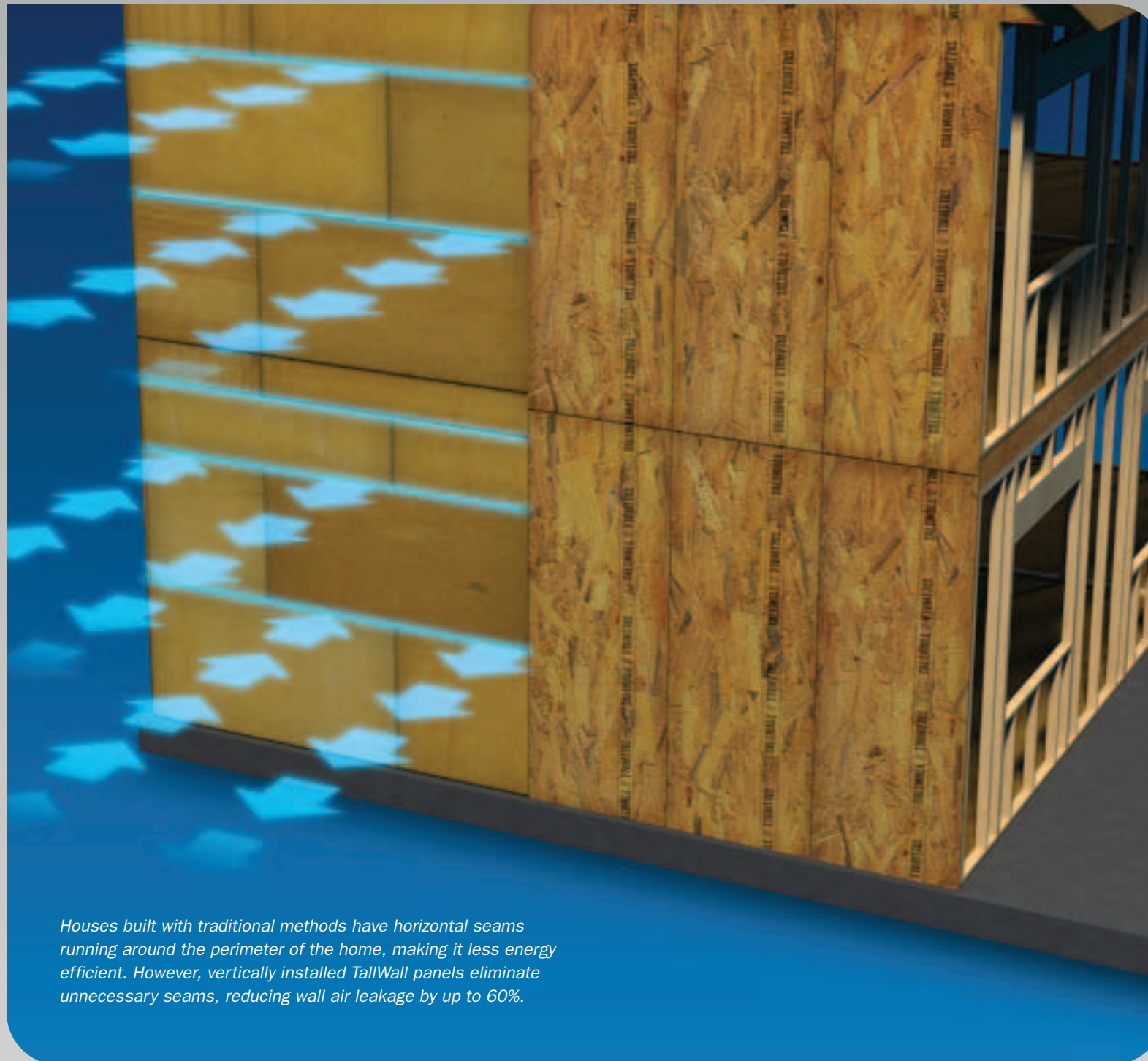
Stiffness (compared to 4x8 panels)

4x10 TallWall	on 9' wall	+24%
4x9 TallWall	on 8' wall	+31%

Displacement (compared to 4x8 panels)

4x10 TallWall	on 9' wall	+38%
4x9 TallWall	on 8' wall	+22%

* Results were achieved with the TallWall panels overlapping the floor framing and covering the top plate.



Houses built with traditional methods have horizontal seams running around the perimeter of the home, making it less energy efficient. However, vertically installed TallWall panels eliminate unnecessary seams, reducing wall air leakage by up to 60%.

PRESSURE TESTING FOR AIR LEAKAGE

Two test walls over 8' tall were built using drywall, tape, joint compound, insulation, with one electrical outlet (on the inside) and an electrical wire running through the studs. One wall was built with horizontally installed 4x8 panels, the other with vertically installed TallWall panels. Each wall was then tested using three different pressure differentials (.01, .02, and .03 H2O SCFM). House wrap was then installed (according to manufacturer's specifications) with one vertical joint, and the same three pressure tests were conducted. A final three pressure tests were completed after installing seam tape (according to manufacturer's specifications) over the joint in the house wrap.

THE RESULTS SPEAK FOR THEMSELVES

% Decrease from 4x8 Wall at .1" H2O

Base Wall*	-38%
With House Wrap**	-29%
With House Wrap and Taped***	-56%

% Decrease from 4x8 Wall at .2" H2O

Base Wall*	-47%
With House Wrap**	-15%
With House Wrap and Taped***	-64%

% Decrease from 4x8 Wall at .3" H2O

Base Wall*	-43%
With House Wrap**	-22%
With House Wrap and Taped***	-63%

* Base Wall 4x8, horizontal installation, all joints spaced 1/8", vertical joints on studs, 2x4 studs, fiberglass insulation, drywall taped and mud.

** House Wrap was installed over the OSB with one vertical joint installed per manufacturers' specs and overlapped but not taped.

*** House Wrap was then taped and the test repeated.

CONCLUSION: TALLWALL REDUCED AIR LEAKAGE BY UP TO 60%

Whether the test wall had no house wrap, house wrap or house wrap with taped seams, the tests revealed a sharp reduction in air leakage – up to 60% compared to 4x8 panels installed horizontally under the same conditions.

BUILD ENERGY EFFICIENCY INTO EVERY HOUSE

Plug the holes in your building strategy – Go Vertical – use the original and tested TallWall panel.



READ THE OFFICIAL REPORT @
TALLWALLOSB.COM