



## NRG Technical Data Sheet

SIPS Structural Insulated Panelized Wall System  
Utilizing Cold Formed Structural Steel Members and  
Expanded Polystyrene

### Panel Size

Thickness

3 1/4"

5 1/2"

7 1/4"

11 1/4"

Widths up to 8 feet or more

Heights up to 16 feet or more

### R-Ratings

"True values"

Panel Thickness	"True" R-Values	"Effective" R-Values
3 1/2"	R-14	R-30
5 1/2"	R-22	R-36
7 1/4"	R-28	R-40
9 1/4"	R-36	R-50
11 1/4"	R-44	R-50+

Our R-values last the life of our product

### STC Sound Ratings

(With out drywall)

3 1/2" = 37

5 1/2" = 40

7 1/4" = 49

11 1/4" = 57

\*Typical wood framing **with** drywall  
both sides and fiberglass batt is 34

### Expanded Polystyrene

Treated with a natural pesticide  
Meets ASTM C578 Specifications  
Flame Spread is 15#  
Smoke Developed 150#-300#

### Structural Steel Studs

12-20 Gauge Steel  
8", 12", 16", & 24" on Center  
G90 Galvanizing

### Steel Component Design and Assembly

All components comply with ICC Report 4943P and the *AISI Specification for the Design of Cold Formed Structural Steel Members* - ASTM C-955 and ASTM C-1007

Assembly of structural components complies with the 2006 International Residential Code

Headers comply with the *North American Steel Framing Alliance L-Shaped Header Field Guide*

### Wind and Load Bearing

Wind and load bearing requirements are per structural engineer and dependent on local codes.

Virtually all wind and load bearing requirements can be accommodated in both residential, commercial, and industrial structures up to four stories in height.



## NRG Drywall Technical Data

### R-Values

Expanded Polystyrene	Panel Thickness	R-Value
1"	1-5/8"	R4.45
1-1/2"	2-1/8"	R6.45
2"	2-5/8"	R8.45
2-1/2"	3-1/8"	R10.45
3"	3-5/8"	R12.45

### STC Sound Ratings

EPS Thickness	STC Sound Rating
1"	38
2-1/2"	40
2"	48
2-1/2"	54
3"	58

Wood framing with drywall on both sides and fiberglass batt has a 34 STC Sound Rating