



PARTICIPANT INFORMATION

Company Name: _____

Contact Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Email: _____ Website: _____

CATEGORY ENTRY *(check one category)*

☐ Single Family Homes (over 3,000 sq. ft.)

☐ Single Family Homes (under 3,000 sq ft.)

☐ Multifamily

☐ Agricultural

☐ Commercial/Industrial/Institutional Buildings under 10,000 sq. ft.

☐ Commercial/Industrial/Institutional Buildings over 10,000 sq. ft.

☐ Renovations

☐ Affordable Housing

PROJECT INFORMATION

Project Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Date completed: _____

Total cost of project (exclusive of land): _____

Dimensions of building (all floors of multi-story building): _____

Asking price/purchase price (Affordable Housing only): _____

Total sq. ft. of conditioned space: _____

BUILT BY *(if different than applicant)*

Company Name: _____

Contact Name: _____ Phone: _____

Address: _____

City: _____ State: _____ Zip: _____

PANELS MANUFACTURED BY *(members only)*

Company Name: _____

Continued

SIPA Building Excellence Application (Page 2 of 4)



DESIGNED BY *(if different than applicant – SIPA will only recognize members)*

Company Name: _____

Contact Name: _____

Phone: _____

Address: _____

City: _____

State: _____

Zip: _____

Please answer each question with as much detail as possible to help in the judging process.

Attach additional sheets if necessary.

Describe the end use of the building:

How did SIP construction help you get this job?

SIP wall thickness and core material: _____

SIP roof thickness and core material: _____

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy?

Describe any innovative design elements or structural engineering involved:

Continued

SIPA Building Excellence Application (Page 3 of 4)



Please list any certifications the project received, such as ENERGY STAR, LEED, National Green Building Standard, or local green building programs. Only list certifications that are completed:

HERS Index (residential projects):

Blower door test results (ACH50) (residential projects):

Energy use intensity in kBtu/ft² (commercial projects):

Describe the HVAC system used on the project:

Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the R-value of any insulation materials.

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar:

Were any solar panels installed on the project? If so, indicate the size of the system:

Continued



Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc.:

Any additional comments on the project:

CHECKLIST

- ☐ My company is a SIPA member. Panels for this project were manufactured by a SIPA member.
- ☐ I have answered ALL the questions completely
- ☐ I have enclosed the two required electronic images of the completed project meeting the requirements stated in the SIPA Building Excellence Awards guidelines
- ☐ I have indicated the HERS Index as determined by a RESNET certified home energy rater (residential projects)

PLEASE CONFIRM: I have read and understand the rules for this competition. This entry is structural insulated panel construction as defined in the SIPA Building Excellence Awards guidelines. I understand by making this submission that my pictures will be used by the Structural Insulated Panel Association (SIPA) to promote the use of structural insulated panels. I hereby give permission to SIPA to use the enclosed pictures for any use they see fit in that endeavor. I understand that where possible, SIPA will give credit for pictures used to my company as listed above.

Signature:

A handwritten signature in purple ink that reads "Sunny Loughlin".

Date:

01/23/2017

Entries that do not contain all required materials or are received after **January 16, 2017** will not be considered

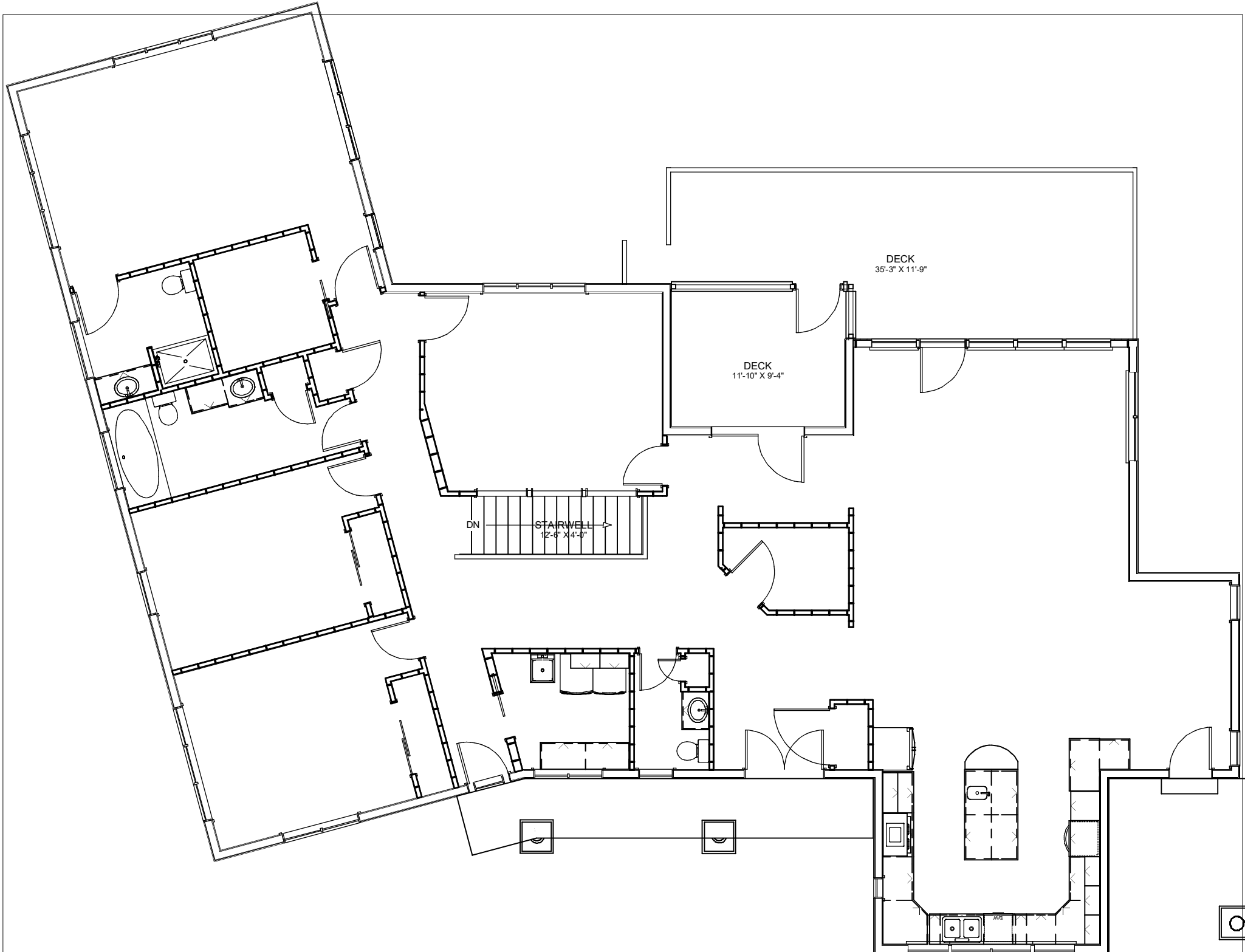
Complete application and submit electronically to info@sips.org

Or send hard copy applications to SIPA office: P.O. Box 39848, Ft. Lauderdale, FL 33339

BUILDING EXCELLENCE AWARD SPONSOR



**Structural Insulated
Panel Association**



BUILDING LEAKAGE TEST

Date of Test: 2/6/2015

Test File: Harvey BLower Door Test - before rim joist insulation

Customer: Harvey/Farr
1521 Woodland Road
Wilmington, DE

Technician: Bridlewood Builders

Project Number:

Building Address:

Test Results

- | | |
|---|---|
| 1. Airflow at 50 Pascals:
(50 Pa = 0.2 w.c.) | 499 CFM50
0.53 ACH50 |
| 2. Leakage Area: | 27.4 in2 LBL ELA @ 4 Pa |
| 3. Building Leakage Curve: | Flow Coefficient (C) = 39.2
Exponent (n) = 0.650 (Assumed) |
| 4. Test Settings: | Test Standard: RESNET One-Point Test
Test Mode: Depressurization |
| 5. Accuracy Level | Standard Level of Accuracy Test |
-

Infiltration Estimates

- | | | |
|--|--|------------------------------|
| 1. Estimated Average Annual Infiltration Rate: | 23.2 CFM
0.02 ACH
5.8 CFM per person
(using bedrooms + 1) | |
| 2. Estimated Design Infiltration Rate: | Winter: 34.2 CFM
0.04 ACH | Summer: 26.0 CFM
0.03 ACH |
-

Cost Estimates

1. Estimated Cost of Air Leakage for Heating:
2. Estimated Cost of Air Leakage for Cooling:

Quick Analysis

Property
Harvey
Wilmington, DE 19804

Weather:Wilmington, DE
Bridlewood-Harvey
Harvey.blg

Organization
ENERGY AUDITORS
717-943-2582
Stan Kuhn

Builder

HERS
Projected Rating
3-23-14
Rater ID:7721076
Registry ID:

Projected Rating: Based on Plans - Field Confirmation Required.

Design Load (kBtu/hr)		Total Area (sq ft)	
Heating	38.4	Door	125.2
Cooling	37.7	Ceiling	2782
Annual Load (MMBtu/yr)		Skylight	4.0
Heating	51.3	Duct	1781.6
Cooling	38.1	Ratios	
Water Heating	11.5	Window-to-Wall	0.264
Annual Consumption (MMBtu/yr)		Window-to-Floor	0.149
Heating	54.2	Window Area by Orientation (sq ft)	
Cooling	8.9	North	10.2
Water Heating	14.4	Northeast	48.0
Lights & Appliances	46.4	East	258.4
Photovoltaics	-0.0	Southeast	135.5
Total	123.9	South	91.4
Annual Energy Cost (\$/yr)		Southwest	47.9
Heating	286	West	107.2
Cooling	208	Northwest	141.7
Water Heating	72	Codes	
Lights & Appliances	1088	IECC 2012 Performance	Passes
Photovoltaics	-0	IECC 2009 Performance	Passes
Service Charges	120	IECC 2006 Performance	Passes
Total	1774	IECC 2004 Performance	Passes
Total Area (sq ft)		IECC 2003 Performance	Passes
Conditioned Space	5656	IECC 2001 Performance	Passes
Shell Area	11512	IECC 2000 Performance	Passes
Above Grade Shell Area	7354	IECC 1998 Performance	Passes
Foundation Wall	2673.0	ECC of NY Performance	Fails
Slab Floor	2673	ECC of NV Performance	Passes
Frame Floor	0	MEC 1995 Performance	Passes
Rim And Band Joist	200.0	MEC 1993 Performance	Passes
Above-Grade Wall	3184.0	MEC 1992 Performance	Passes
Window	840.3	ASHRAE 90.2 Performance	Passes

REM/Rate - Residential Energy Analysis and Rating Software v14.3

This information does not constitute any warranty of energy cost or savings.

© 1985-2013 Architectural Energy Corporation, Boulder, Colorado.

Quick Analysis

Property

Harvey
Wilmington, DE 19804

Weather:Wilmington, DE
Bridlewood-Harvey
Harvey.blg

Organization

ENERGY AUDITORS
717-943-2582
Stan Kuhn

Builder**HERS**

Projected Rating
3-23-14
Rater ID:7721076
Registry ID:

Projected Rating: Based on Plans - Field Confirmation Required.

Programs

EPA ENERGY STAR 2.0	Passes
EPA ENERGY STAR 2.5	Passes
EPA ENERGY STAR 3.0	Passes
Tax Credit	Passes
DOE Challenges	Fails
HERS Index	48

BUILDING LEAKAGE TEST Page 2 of 4Date of Test: 2/6/2015 Test File: Harvey BLower Door Test - before rim joist insulation

Building Information

Volume	56000
Surface Area	
Floor Area	5300
Height	10.5
# of Bedrooms	3
# of Occupants	2
Year of Construction	2015
Wind Shield	M

Location Climate Information

Ventilation Weather Factor	0.84
Energy Climate Factor	20.00
Heating Degree Days	4888
Cooling Degree Days	579
Design Winter Wind Speed	10.2 mph
Design Summer Wind Speed	10.3 mph
Design Winter Temp Diff	56 deg F
Design Summer Temp Diff	14 deg F

Heating and Cooling Cost and Efficiency Information

Heating Fuel	Heat Pump HSPF
Heating Fuel Cost	
HSPF	
Cooling Fuel Cost	
Cooling SEER	

Equipment Information

Type	Manufacturer	Model	Serial Number	Custom Calibration Date
Fan	Energy Conservatory	Model 3 (110V)		Default
Micromanometer	Energy Conservatory	DG700	36125-7	12/17/2012

BUILDING LEAKAGE TEST Page 3 of 4Date of Test: 2/6/2015 Test File: Harvey BLower Door Test - before rim joist insulation

Depressurization Test:**Environmental Data**

Indoor Temperature (°F)	Outdoor Temperature (°F)	Altitude (ft)
60.0	23.0	145.0

Baseline Pressure Data

Baseline 1 (Pa)	1.4
Baseline 2	0.6
Baseline 3	0.8
Baseline 4	1.0
Baseline 5	0.7
Average Baseline (Pa)	0.9
Baseline Range (Pa)	0.8

Data Points

Nominal Building Pressure (Pa)	Baseline Adjusted Building Pressure (Pa)	Fan Pressure (Pa)	Nominal Flow (cfm)	Adjusted Flow (cfm)	Fan Configuration
-47.7	-48.6	78.1	526	490	Ring B

Time Averaging Period: 10

Deviations from Standard RESNET One-Point Test - Test Parameters**None**

BUILDING LEAKAGE TEST Page 4 of 4

Date of Test: 2/6/2015 Test File: Harvey BLower Door Test - before rim joist insulation

Comments

Test # 2 before drywall
