



**SIPA Manufacturer/Technical Committee Meeting
Wednesday, March 8, 2023, Phoenix AZ, 1pm Mountain Time (3pm ET)
In person and by video conference**

Zoom Meeting ID 909 601 2023, Passcode 2021, 346-248-7799

<https://zoom.us/j/9096012023?pwd=VXNVeTB3ZEwwQmxTbWdsQmMwS0R2UT09>

Discussion Outline

- Welcome/Call to Order
- Antitrust Guidelines
- Approval of Manufacturer Committee Meeting Minutes from 9Feb2023
- SIPA Strategy Reminder

- Active Manufacturer Committee Projects from Status Report 01Mar2023
 - Best Practices – **DESIGN-BP** completed, **BUILDER-BP** in process
 - Press pressures project
 - Two-hour fire test

- Other Committee Activity
 - Technical project updates (seismic, fire, zero load, creep)
 - Next technical priorities (roof standard)
 - IBS 2024 preview

- Old Business/New Business
 - Quarterly manufacturers best practices webinars – next topic
 - **SIP True Value Tool** review and comments
 - Requirements for new Manufacturer members – provisional membership?
 - Open items/other

- Manufacturer Committee – next meeting: Thursday, April 13, 2PM ET
- Adjourn

SIPA Manufacturer/Technical Committee 8Mar2023 Meeting Deck

- Page 1 Meeting Agenda and Deck Contents
- Page 2 SIPA Antitrust Checklist
- Page 3 SIPA Manufacturer Committee Minutes from 9Feb2023
- Page 5 SIPA Strategy Overview
- Page 8 SIPA Committee Status Report 1Mar2023

Antitrust Checklist for Structural Insulated Panel Association Meetings

This antitrust checklist is for use by SIPA staff and member representatives in the conduct of SIPA sponsored meetings. Prohibited discussion topics apply equally to social gatherings incidental to SIPA sponsored meetings. The Checklist is not exhaustive and does not address antitrust issues relating to activities other than SIPA meetings. Participants in SIPA meetings also should be thoroughly familiar with: (1) "Antitrust Guide for SIPA Committee Members;" and, (2) "General Principles Applicable to the Structure and Operation of Committees."

<p>DO Ensure strict performance in areas of:</p> <p>OVERSIGHT/SUPERVISION:</p> <ul style="list-style-type: none"> • Have a SIPA staff representative at each SIPA - sponsored meeting (unless an exception has been authorized by the appropriate SIPA board member); • consult with an attorney of the SIPA staff on all antitrust questions relating to SIPA sponsored meetings; • limit meeting discussions to agenda topics (unless additional topics have been approved by the appropriate SIPA staff representative); and • provide each member company representative and SIPA staff representative attending a SIPA - sponsored meeting with a copy of this checklist, and have a copy available for reference at all SIPA sponsored meetings. <p>RECORDKEEPING:</p> <ul style="list-style-type: none"> • Have an agenda and minutes which accurately reflect the matters which occur; • provide agendas and minutes to SIPA staff for review and approval in advance of distribution; and, • fully describe the purposes and authorities of all teams and subgroups in the minutes of the appropriate parent committee. <p>VIGILANCE:</p> <ul style="list-style-type: none"> • Protest against any discussion or meeting activities which appear to violate this checklist; dissociate yourself from any such discussion or activities and leave any meeting in which they continue. 	<p>DON'T Do not, in fact or appearance, discuss or exchange information on:</p> <p>PRICES, INCLUDING:</p> <ul style="list-style-type: none"> • Individual company prices, price changes, price differentials, mark-ups, discounts, allowances, credit terms, etc.; • individual company data on costs, production, capacity, inventories, sales, etc.; and, • industry pricing policies, price levels, price changes, differentials, etc. <p>PRODUCTION, INCLUDING:</p> <ul style="list-style-type: none"> • Plans of individual companies concerning the design, production, distribution or marketing of particular products, including proposed territories or customers; and, • changes in industry production, capacity or inventories. <p>TRANSPORTATION RATES:</p> <ul style="list-style-type: none"> • Rates or rate policies for individual shipments, including basing point systems, zone prices, freight equalization, etc. <p>MARKET PROCEDURES, INCLUDING:</p> <ul style="list-style-type: none"> • Company bids on contracts for particular products; company procedures for responding to bid invitations; and, • matters relating to actual or potential individual suppliers or customers that might have the effect of excluding them from any market or influencing the business conduct of firms toward them.
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Structural Insulated Panel Association

P.O. Box 39848 / Fort Lauderdale, FL 33339 / Ph: 253-858-7472 / www.sips.org / info@sips.org

SIPA Manufacturer Committee Meeting Audio/Video Conference Call February 9, 2023, 2:00 PM ET

Attendance: Jeremy Dieken (chair), Clint Barnett, Mark Benge, Bridgette Donahue, David Gould, Gabriel Grossman, James Hodgson, Paul Malko, Tom Moore, Joe Pasma, Mike Tobin, Tom Williamson

SIPA Staff: Jack Armstrong, Elaine Valby

Call to Order, Restraint of Trade Statement, Approval of Minutes

Jeremy called the meeting to order at 2:04 PM ET. Jack reviewed the association's antitrust guidelines. As moved by Joe Pasma and seconded by Paul, SIPA's Manufacturer Committee approved the 12Jan2023 Manufacturer Committee minutes as included with meeting materials.

SIPA Strategy Overview

Jeremy drew the group's attention to pages 5-7 of the meeting deck which summarize SIPA's overall goals and the current initiatives to achieve them.

Active Manufacturer Committee Projects

Jeremy referred to the committee project status reports on pages 8-13, with the Manufacturer Committee's open items highlighted for discussion on page 8.

Best Practices

Committee members discussed **DESIGN-BP 10: SIP Plumbing**, a draft of which had been distributed prior to the meeting. Representatives of the Best Practices task group clarified that the upcoming **BUILDER-BP** series will further emphasize do's and don'ts, whereas the **DESIGN-BP** series outlines a wide range of options. On a motion from Joe, seconded by Tom, the Manufacturer Committee approved the publication of **DESIGN-BP 10: SIP Plumbing** as presented.

SIP True Value Tool website live: www.SIPTrueCost.org

Jack noted that the user-friendly online app for the **SIP True Value Tool** is now live. The link was provided in the agenda distributed with the meeting materials. Sam Rashkin presented the app at IBS and continues to sharpen the value proposition. Jack clarified that Sam and SIPA will eventually develop instructional videos, webinars, marketing messages, and an AIA course with completed case studies, all providing guidance on how best to use the **SIP True Value Tool**.

Technical Updates

Tom Williamson provided an update on the FPL creep study at Mississippi State. Additional academic papers using the data are forthcoming. The major report is approaching publication and will be very positive for the SIP industry. The group briefly discussed the possibility of eventually using the study to achieve an ANSI standard for SIP roofs, while acknowledging that significant obstacles remain.

Jack gave an update on the recently conducted small-scale two-hour fire test, which showed temperatures higher than desirable. The committee noted the value to the industry of achieving a two-hour fire rating, and discussed potential ways to modify the test parameters. Joe made a motion to run a second small-scale test, this time with three layers of gypsum and Type C foam. Mike seconded, and the motion passed unanimously.

Jack briefly described the lamination pressure pilot test currently under way, following up on the recent SIPA webinar session on the topic. He also noted that Qualtim is completing revisions on the test plan to support seismic D, E and F, while PorterSIPs is manufacturing the test panels.

Other Committee Activity

Marketing and Education

Jack noted the latest SIPA newsletter featuring an award-winning Ted Clifton building. He informed the committee of the plan to roll out a **Master SIP Designer** program in the second quarter of 2023, with the completion of BEST courses providing a credential for the design professional (complementing the existing **Master SIP Builder** program).

IBS 2023 Vegas Review

Jack reported on the success of the strong SIPA presence at IBS. The show was well attended overall, and SIPA member booths were busy. The Learning Lounge generated leads, inquiries and great feedback.

Old Business/New Business

2023 SelectSIPs Expo and SIPA Annual Meeting

Jack briefly reviewed the plans for the upcoming gathering in March.

Next Meeting and Adjournment

Jeremy reminded the group that the next SIPA Manufacturer Committee meeting will be held by video conference on Thursday 13Apr2023. On a motion from Joe, seconded by Mike, the February meeting adjourned at 2:49 PM ET.

SIPA Strategy Overview – 2021/2022

Vision: SIPs are the preferred building system.

Mission: SIPA provides an industry forum to increase the acceptance & use of SIPs

Goal: Achieve SIP growth faster than the market

Strategic Focus: Concentrate early in the value chain overcoming:

1. Resistance to change
2. Lack of awareness
3. Negative perceptions

Commercial Markets – Qualified Architects

working on low rise, combustible wood construction (Type V).

- Improve training & best practice courses, videos, delivery options.

Residential Markets – High Performance Builders

who understand value, building science, net-zero energy and construct 20 – 100 units/yr

- Offer a clear value proposition.
- Detailed 'all in one' case studies (highlight cost & speed advantages).
- Beginning-to-end training and design through install; whys/why-nots.

SIPA Industry Commitment 1st steps

- Establishing baseline SIP specification
- “Need to know” content for architects & builders when designing w/SIPs
- “Best practices” when designing/constructing w/SIPs

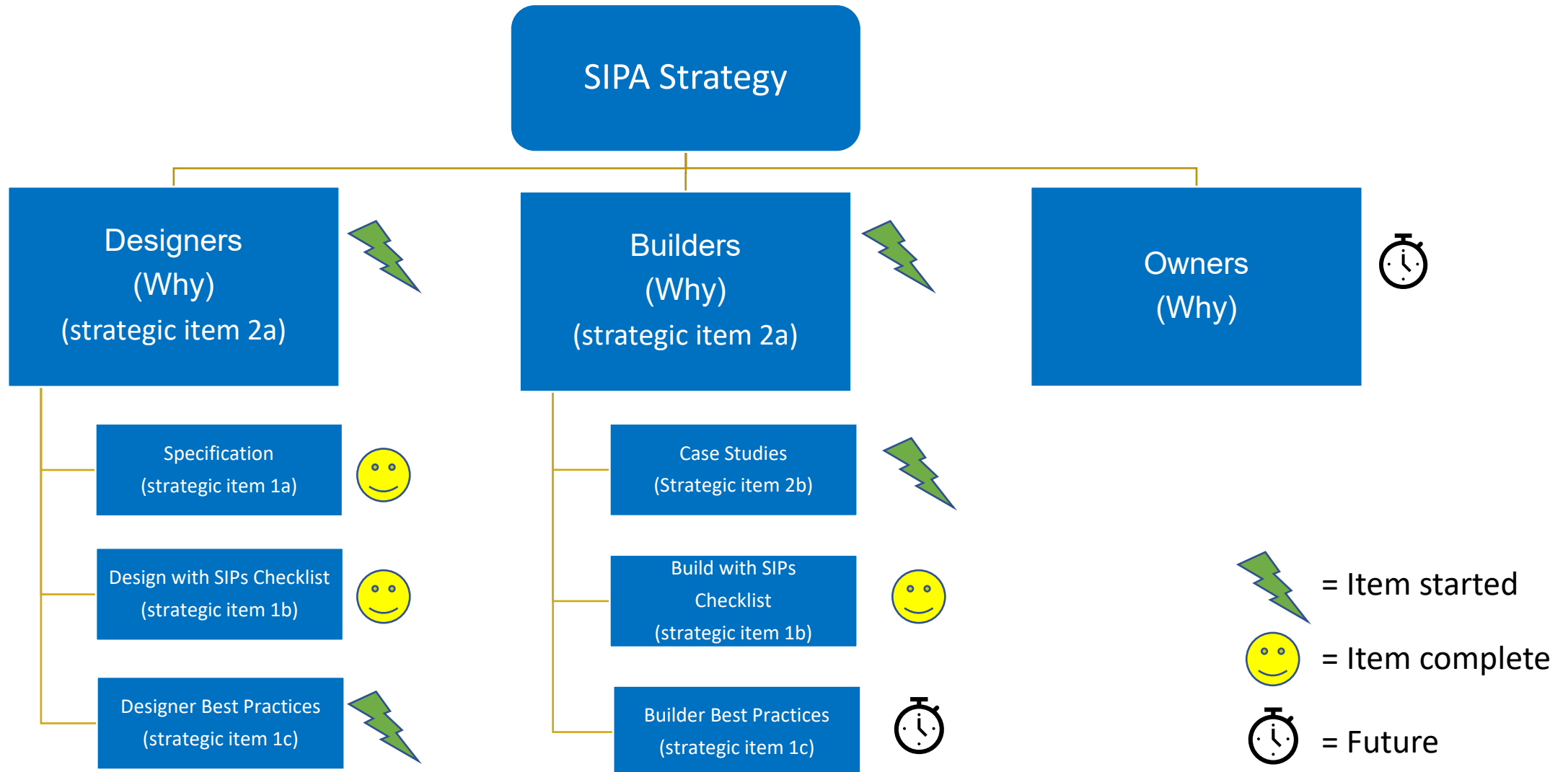


Strategy and Initiatives – 2021/22

Task Order	Category	Initiative	Near Term Priorities - Initiative Description
1a	Baseline	Arch & Bldr	Establish baseline SIP specification
1b	Baseline	Arch & Bldr	Create "Top 10 Need to Knows" lists specific for design professionals and builders
1c	Baseline	Arch & Bldr	Create "Best Practices" documents specific for design professionals and builders
2a	Value Prop.	Arch & Bldr	Create high level value proposition expressing the 'emotional why' to use SIPs with refined messages for architects and builders. {IAQ/IEQ/Sustainability – here?}
2b	Value Prop/Economic Case Study	Bldr	Create an economic business case justifying the use of SIPs comparing labor, speed, downstream complexity reduction (i.e. HVAC, callbacks), and lower energy/air leakage as an 'all in one' study as to how it affects the bottom line and margin/cycle time improvement. (1st residential/ 2nd commercial). {new consider adding: health/IAQ/IEQ and sustainability/carbon message?}
3	Online	Arch & Bldr	Create best practice YouTube videos + SIPA website more training vs marketing + Increase technical data (bulletins, Design Guide) to website
4	Training	Arch & Bldr	Develop comprehensive, practical in person architect training + Develop AIA & USGBC scopes of work with f/u best practice courses + Develop builder training outlining process from start to end & design of other parts of project; emphasize why & why nots and simple process
5	Qualifying	Arch & Bldr	Develop qualifying SIPA messaging outreach process /questionnaire & provide incentives to return; message them

Task Order	Category	Initiative	Longer Term Priorities - Initiative Description
future	Training	Arch & Bldr	Present at local/state AIA events & f/u individually afterwards; present monthly/quarterly seminars at HBA's with new case studies
future	Training	Arch & Bldr	Create a technical smart phone app for SIPs
future	Value Prop.	Arch	Show SIPs as a complete solution pkg.; how they affect other trades & make process better. Show problems solved vs traditional methods.
future	Training	Bldr	Provide/train new builders complete SIP solution: components, engineering, installation, trades education; reduce risk
future	Training	Bldr	Advocate SIPs via local NAHB HBA outreach with case studies, info libraries & trade support / training; follow-up individually
future	Advocacy	Bldr	Advocate for tax credits and rebates for SIP builders

SIPA Strategy Elements & Status 2022



Manufacturer Committee

Updated: 3/1/23

Purpose: Guide and direct SIPA priorities to further acceptance and use of SIPs

Chair: J. Dieken

Members: Bergum, Clevenger, Collins, DiPietro, Dunnigan, Ewalt, Foard, Fortier, Gatten, Gould, Grossman, Hinde, Hodgson, Huempfer, Jenkins, Johnson, Kain, Laferty, LeClair, Malko, Mattison, McEachern, Pasma, Pataluna, Rieke, Singh, Smits, Sun, Tilak, Walsh, Williamson

Projects:

Title	Description	Contact	Task Group	Status	Next Action	Due Date	Est. Completion	Cost
SIP Specification	Update SIP Specification to support strategic plan	J. Dieken	Gould, Moore, Nigh, Roehl	Formally approved by SIPA Manufacturer Committee	Pursue unique code identifier 0612xx			\$3800 - \$4400
Best Practices	Develop SIP Best practices to	Pasma	Dieken, Gould, Hodgson, Pasma, Williamson	DESIGN-BP 10 released. BUILDER-BP 10: SIP Plumbing in draft stage.	Manufacturer Committee to review next chapters as they become available.	1Q23	2023	
Economic Business Case	Economic business case for SIPs versus stick built construction - Tool	Armstrong	SIPA Board	SIP True Value Bidding Tool - online app complete: www.SIPTrueCost.org	Sam Rashkin engaging 3 bldgrs and educate the SIP sales force	1H23	2023	~\$20K
Technical Committee Guidance	SIPA Technical Committee working priorities from SIPA Manufacturers	Williamson	Dieken, Malko, Nigh	SIP Press Pressure testing; Fastener issues: TRUFAST pullout testing.	Paul Malko to test samples at 3 press pressures; Outline SIPA technical bulletin for fastener pullout?	1H2023	2023	
Technical Committee Guidance	SIPA Technical Committee working priorities from SIPA Manufacturers	Williamson	Moore, Nigh, Pasma, Williamson	Manufacturers prioritized topics for Technical Committee attention	FPL Creep Rpt, 2 Hr Fire & Seismic DEF testing	2H23	2023	~\$25K

Action Items:

Title	Description	Next Action	Due Date
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Parking Lot:

Title	Description
R-Value Communications	How to legally articulate SIP advantage
Engineering Design Guide	Develop a long-term road map for the time, funds and other resources required to make good use of the data in the Engineering Design Guide
Inclusion of SIP roofs in ANSI/APA PRS-610	Create an ANSI standard for SIP roofs

Completed:

Title	Description	Resolution	Done
Oversight	Confirm that SIPA members comply with base SIP Specification	Code of Conduct added to Member Application. Added to SIPA bylaws.	Jan-21
SIPs Basic Connection Details	Update and standardize SIPs Connection Details as published by SIPA	Pataluna Bergum, Malko, Williamson	SIPs Basic Connection Details released November 2021

Technical Committee

Updated: 3/1/23

Purpose: Advance SIP technical positions through research, testing, and standards

Chair: Williamson

Members: Gould, Moore, Nigh, Pasma, Sigdel, Smith, Tobin

Projects:

Title	Description	Contact	Task Group	Status	Next Action	Due Date	Est. Completion	Cost
FPL Creep Testing	Miss. State Univ. to re-run problematic FPL Creep testing	Williamson	Williamson, Armstrong	Testing completed	Report being drafted	1Q23	2023	~\$25K
SIP Press Pressures	Determine max lamination pressure w/o crossing into Plastic deformation zone	Malko/Dieken	Malko, Dieken, Armstrong	Panels to ship Feb'23	Test 3 pressures at Foard	2Q23	3Q23	~\$5K
Future Tech Bulletin	Improper SIP fastener hammering & damage/weakening effects	Williamson/ Malko	Malko, Foard, Armstrong	Paul Malko working with engineers to outline a potential SIPA technical bulletin and determine what additional tests might be of value.	Initial results to be reviewed and next steps approved by Manufacturer Committee	1H23	2023	
Existing SIPA Technical Bulletins	Update building code references			Ranked #2 on SIPA Manufacturer priority list	SIPA staff to highlight sections needing review	1H23	2023	

Possible Technical Bulletin Topics Suggested in Various SIPA Meetings

- Gaps to accommodate roof and wall expansion / contraction
- Moisture and wood / right layers of tar paper vs plastic wrap
- Multispan Conditions
- Simple summary of APA diaphragm testing
- SIP roof exposure to construction elements
- Additional topics as highlighted by SIP Spec, Need to Know and Best Practices task groups

Parking Lot:

ANSI PRS610	Add roofs into PRS610	Williamson	Moore, Pasma, Tilak, Williamson	Preliminary testing needs and costs identified	Relatively low on SIPA manufacturer priority list. (Polarized vote)			Possibly \$100k
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Code Report Committee

Updated: 2/6/23

Purpose: Coordinate and strengthen building code recognition of SIPs to promote use

Chair: Jenkins

Members: Barnett, DiPietro, Gould, Hodgson, Malko, Mensing, Nigh, Pasma, Pataluna, Rieke, Tilak, Walsh

Projects:

Title	Description	Contact	Task Group	Status	Next Action	Due Date	Est. Completion	Cost
Adding Seismic D, E, F to ESR-4689	Conduct testing as necessary to meet AC04	Barnett/Pasma	Armstrong, Jenkins, Williamson	Code Committee approved	Qualtim testing in process	1Q23	2023	\$50K
Fire-rated SIP assemblies	Consolidate fire listing (currently with Intertek) into ESR-4689	Barnett/Nigh	Armstrong, Jenkins	Code Committee approved preliminary two-hour test	Preliminary testing in process	1Q23	2023	\$24-36K
Zero bearing transverse testing for wall panels	Zero bearing transverse testing for wall panels	Barnett/Nigh	Armstrong, Pasma	Code Committee approved next steps	ICC NTA provided quote of \$27K	1Q23	2023	\$27K
Diaphragm table in ESR-4689	Address the fact that a minimum panel thickness is specified in the diaphragm table	Moore, Pasma	Armstrong, Pasma, Williamson	ICC NTA unable to provide an engineer's opinion explaining that the diaphragm values can be used for any thickness of SIP roof panels	ICC NTA provide cost estimate of \$54-57K for the necessary testing	2H2023	2023	\$54-57K
Update ESR-4689	Editorial revisions and new test data to be incorporated	Barnett/Nigh	Armstrong, Jenkins	Testing in process	Testing in process	1Q23	2023	

Action Items:

Title	Description	Next Action	Due Date
Periodic Verification Testing	Voluntary quarterly panel testing program	Ongoing starting 4Q2020	

Completed:

Title	Description	Resolution	Done
SIPA Code Report: I-Joists	Add I-Joist Load Design Chart	I-Joists added to SIPA master code listing	1Q2019
Florida HVHZ SIP Wall and Roof Approval	Recognize SIP walls and roofs in Florida HVHZ Zones	Approval secured under latest Florida Building Code	4Q2020
Span Table Clarification	Potential Misuse of the Listing's Span Tables	Table titles and footnotes clarified with 2020 update	1Q2020
NTA to ICC Conversion	Change listings from NER reports to ESR reports	Completed	Sep-20
Norbord OSB	OSB from new mill in Alabama, zinc borate OSB from Barwick successfully tested for ESR-4689	Added to official Approved Material List	Oct-20
Adding Seismic D, E, F to ESR-4689	Separate ESL using existing test data with 3" OC for 900 plf shear strength	ICC-ES Report ESL-1360 released in late June - three participants	Jun-21
Adding Seismic D, E, F to ESR-4689	Analyze FPL test report for additional configurations	Doug Berger of ICC-ES completed assessment; committee opted to use ESL-1360 for seismic rather than use FPL data in SIPA Master Code Report	Mar-22

Marketing Committee

Updated: 2/6/23

Purpose: Advance and Promote SIPs

Chair: Fortier/Susan

Members: Bergum, Deringer, Diamond, Hinde, Jenkins, Jerome, Meyer, Moore, Pataluna, Penske, Sopwith, Steiner, Susan,

Committee Projects:

Title	Description	Contact	Task Group	Status	Next Action	Due Date	Est. Completion	Cost
SIP Sustainability	Recommend SIP industry approach to sustainability	Fortier / Armstrong	ACME & Premier	EPSIA updating EPD in 1Q2023 & Insulation PCR update 2H23	Develop SIP PCR/EPD plans and ACME/Premier to lead way	2H23	4Q2023	~\$25K
SIP Economic Builder Case	Sam Rashkin led Collaboration with Builders & stakeholders to develop bid template showing value	Armstrong		Online True Value Bidding Tool developed and tested: www.SIPTrueValue.org	(1) engage 3 builders & educate the SIP sales force, and (2) create a guidance document for users	1H23	1Q23	~\$20K
SIPA Blog	SIPA Blog Posts	Moore		ongoing	ongoing	ongoing		

Staff Projects:

Title	Description	Contact	Task Group	Status	Next Action	Due Date	Est. Completion	Cost
SIPA Manufacturer Task Group Documents	Marketing support for the new Best Practices documents	Armstrong, Fortier	committee	Best Practices in process.	Promote as available through email and website	ongoing		

Staff Action Items:

Title	Description	Next Action	Due Date
SelectSIPs Newsletter	Provide editorial direction for content. Issue newsletter every two weeks.	ongoing	ongoing
SIPA Website	Finish SIPs.org back office functions	Complete	

Education Committee

Updated: 2/6/23

Purpose: Create resources to train builders and design professionals how to use, design, and install SIPs

Chair: Moore

Members: Barrows, Cobb, J. Dieken. T. Dieken, Pasma

Projects:

Title	Description	Contact	Task Group	Status	Next Action	Due Date	Est. Completion	Cost
Registered Master Builder list	Registered Master Builder list needs to be reviewed and confirmed on a consistent basis	Armstrong	Education Committee	Committee requests regular blower door test submissions	Registered Master Builder requests and submissions in progress	ongoing	ongoing	none
Additions to Registered Master Builder list	Evaluate Registered Master Builder status for builders with proven experience through SIPA Manufacturers	Armstrong	Education Committee	Education Committee wants documentation regardless of experience	Jack to determine if interested manufacturer wants to proceed	2H23	2H23	Dues income for SIPA
Master Designer Program	Develop a BEST Registered & Master Designer program similar to Builders	Armstrong	Education Committee	Logos developed & web page	Post new pages on Designer program to & add member category	1H23	1H23	none

Action Items:

Title	Description	Next Action	Due Date
Master Builder Approval	Approve requests once BEST program and SIPschool and finished SIP project with blower door data completed	Ongoing	Ongoing
AIA CEU Courses	Regular updates and new course creation	Jack Armstrong to determine preferred online AIA provider and set 2-year plan	2H22

Board of Directors

Updated: 1/12/23

Purpose: Guide and direct SIPA activities to further acceptance and use of SIPs

Chair: Pataluna

Members: Barrows, Bergum, Costanza, Deringer, Dieken, Early, Fortier, Hinde, Hodgson, Jenkins, Knapp, Mickley, Moore, Pasma, Smits, Tompos, Walsh, Wilson, Wischmann

Projects:

<u>Title</u>	<u>Description</u>	<u>Contact</u>	<u>Task Group</u>	<u>Status</u>	<u>Next Action</u>	<u>Due Date</u>	<u>Est. Completion</u>	<u>Cost</u>
Manufacturer Committee	Manufacturer Projects/Actions	J. Dieken	NA	Ongoing	Review Status	Mar-23	NA	NA
Marketing Committee	Marketing Committee Projects/Actions	Fortier	NA	Ongoing	Review Status	Mar-23	NA	NA
Education Committee	Education Committee Projects/Actions	Moore	NA	Ongoing	Review Status	Mar-23	NA	NA
Technical Committee	Technical Committee Projects/Actions	Williamson	NA	Ongoing	Review Status	Mar-23	NA	NA
Code Committee	Code Committee Projects/Actions	Jenkins	NA	Ongoing	Review Status	Mar-23	NA	NA

Action Items:

<u>Title</u>	<u>Description</u>	<u>Next Action</u>	<u>Due Date</u>
R-values	Create a SIPA position paper on R-values vs "Performance" R-values for legal framework for discussion and marketing	Under further review	

Completed:

<u>Title</u>	<u>Description</u>	<u>Resolution</u>	<u>Done</u>
SIPA Bylaws Change	Adding language for Member Manufacturer code and QA requirements	Approved with 3/4 majority	Jan-21