

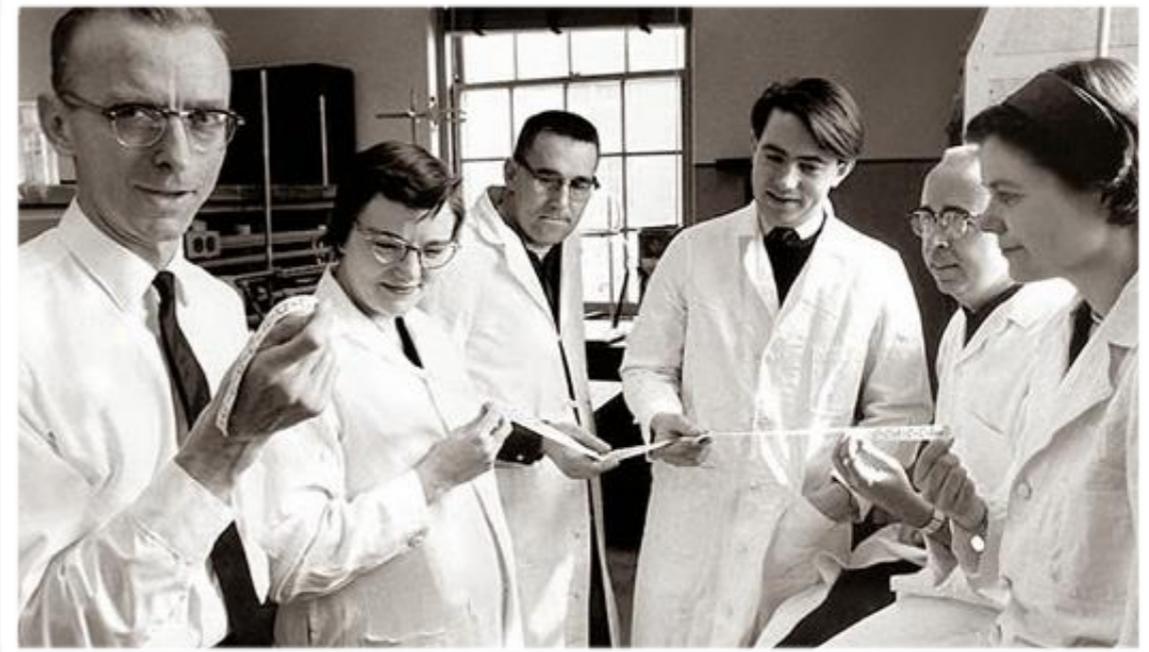


# Above Deck Insulation

Title24 and R-6 Compliant



It wasn't long after astronauts and cosmonauts orbited the earth that they realized ballpoint pens would not work in space.





But how did the astronauts and cosmonauts get along until the problem was solved?



**They simply used a pencil.**

This story is used to illustrate simple, yet cost effective things, we already know about EPS Foam.



Basic Facts about EPS foam:

## Foam Insulates!

And it insulates efficiently.

A 1/8" foam cup with coffee  
can protect your hands from  
160° -180° scalding temperatures.



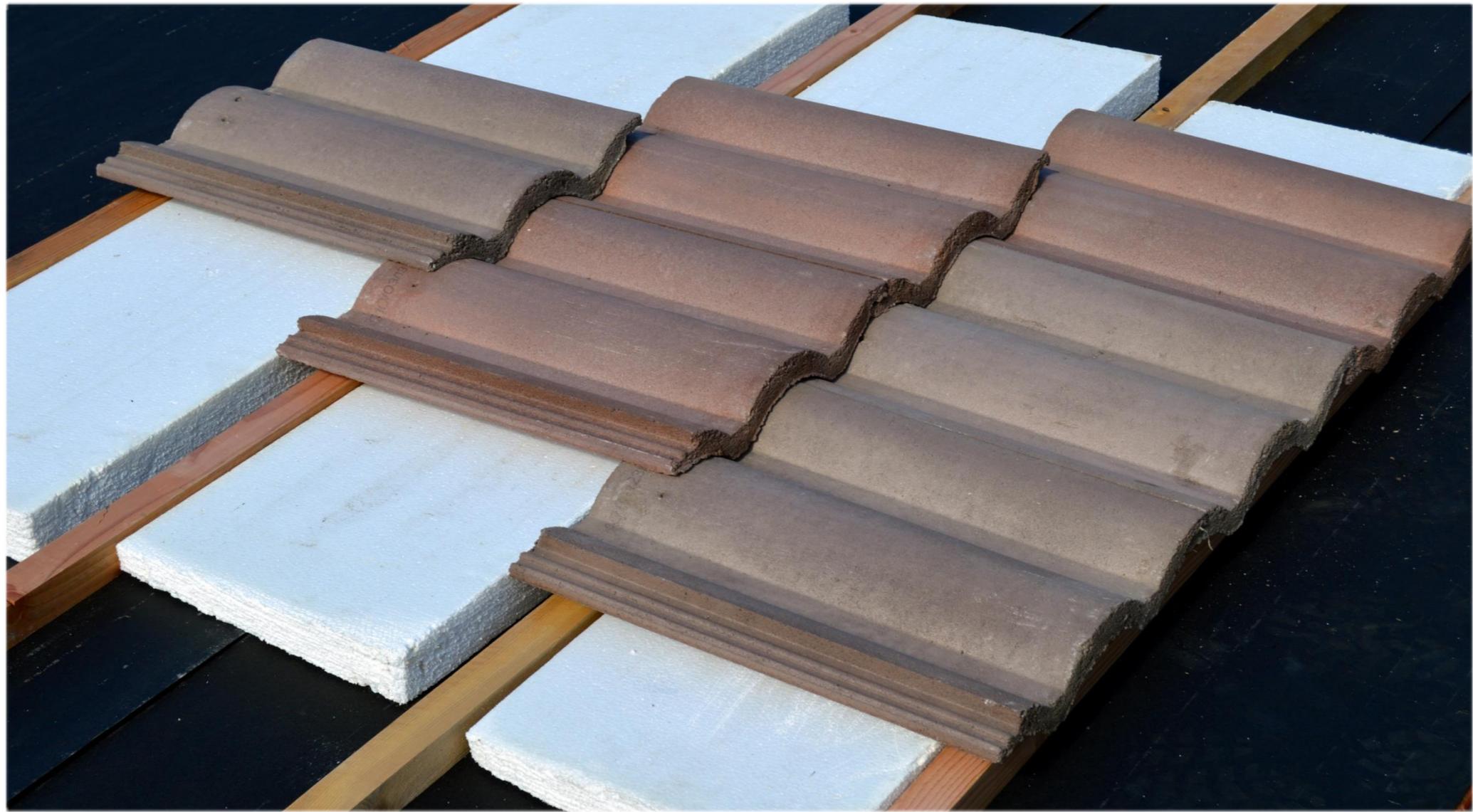
Basic Facts about EPS foam:

## Foam Insulates!

And it insulates efficiently.

Imagine how a 2" thick piece of foam  
will reduce the heat transfer  
into an attic and living space.





## Wedge-It™ installed under Concrete Roof Tile

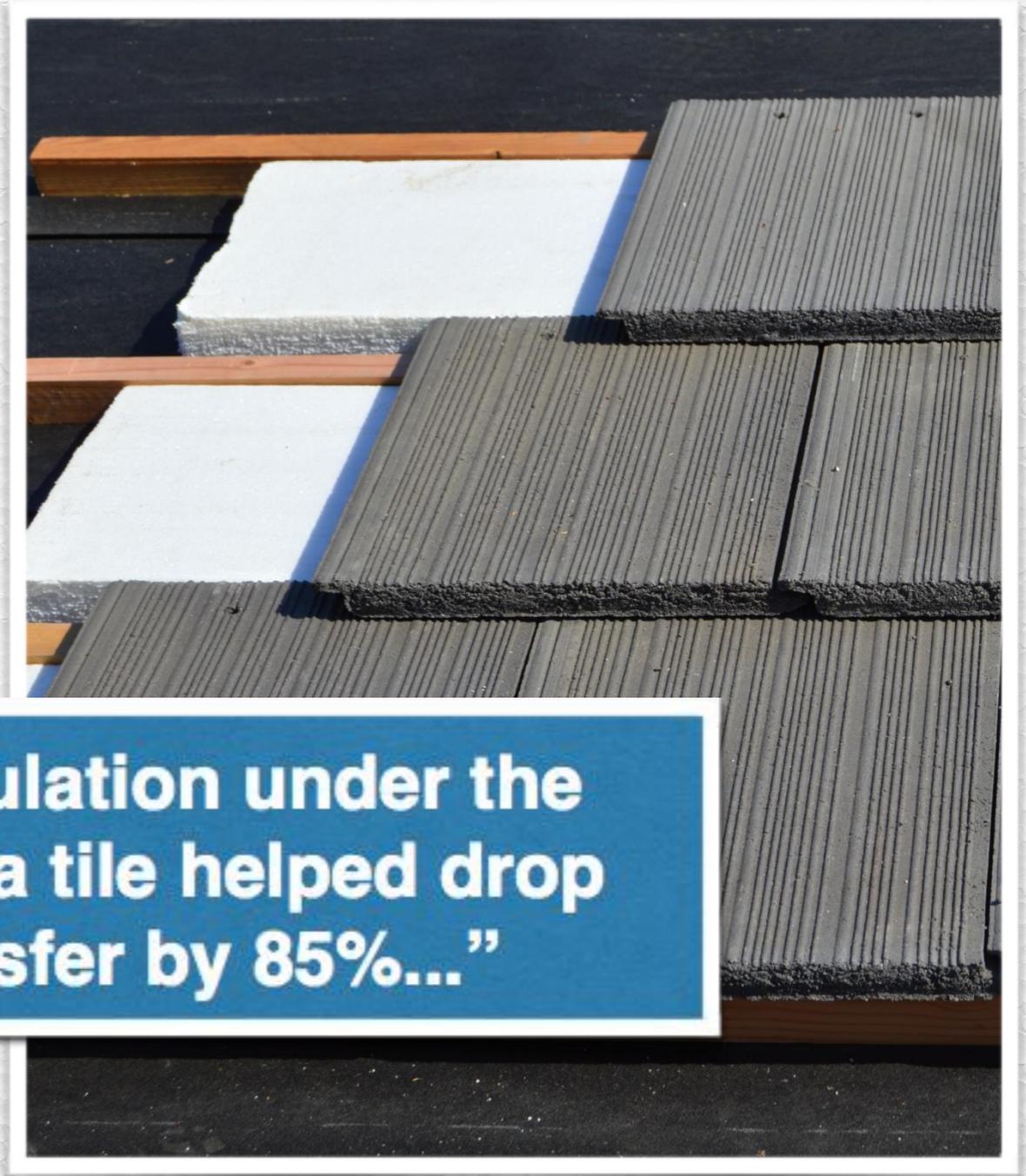
Its installation is simple, its cost effective, and it works.

**it meets the R-6 specs from CEC and is Title 24 compliant.**

# Facts About Wedge-It®

**Wedge-It® is Effective!**

**OAKRIDGE LABORATORIES**  
(2008 ACEEE Summer Study  
on Energy Efficiency in Buildings  
Pg. 1-182)

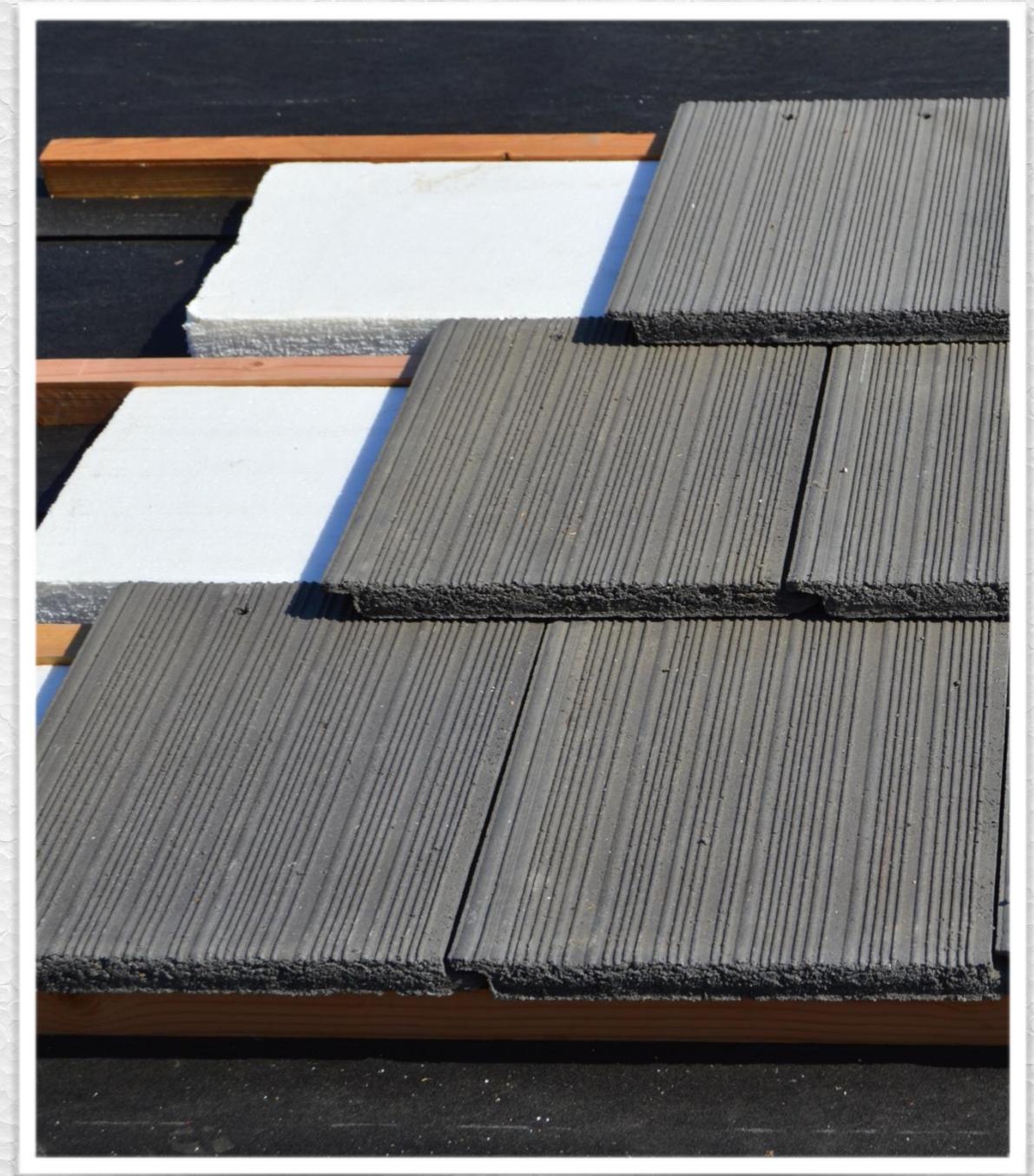


**“...R-6.25 of EPS insulation under the high-profile terra-cotta tile helped drop peak day heat transfer by 85%...”**

# Facts About **Wedge-It**<sup>®</sup>

**There is no change in current  
Roof installation methods.**

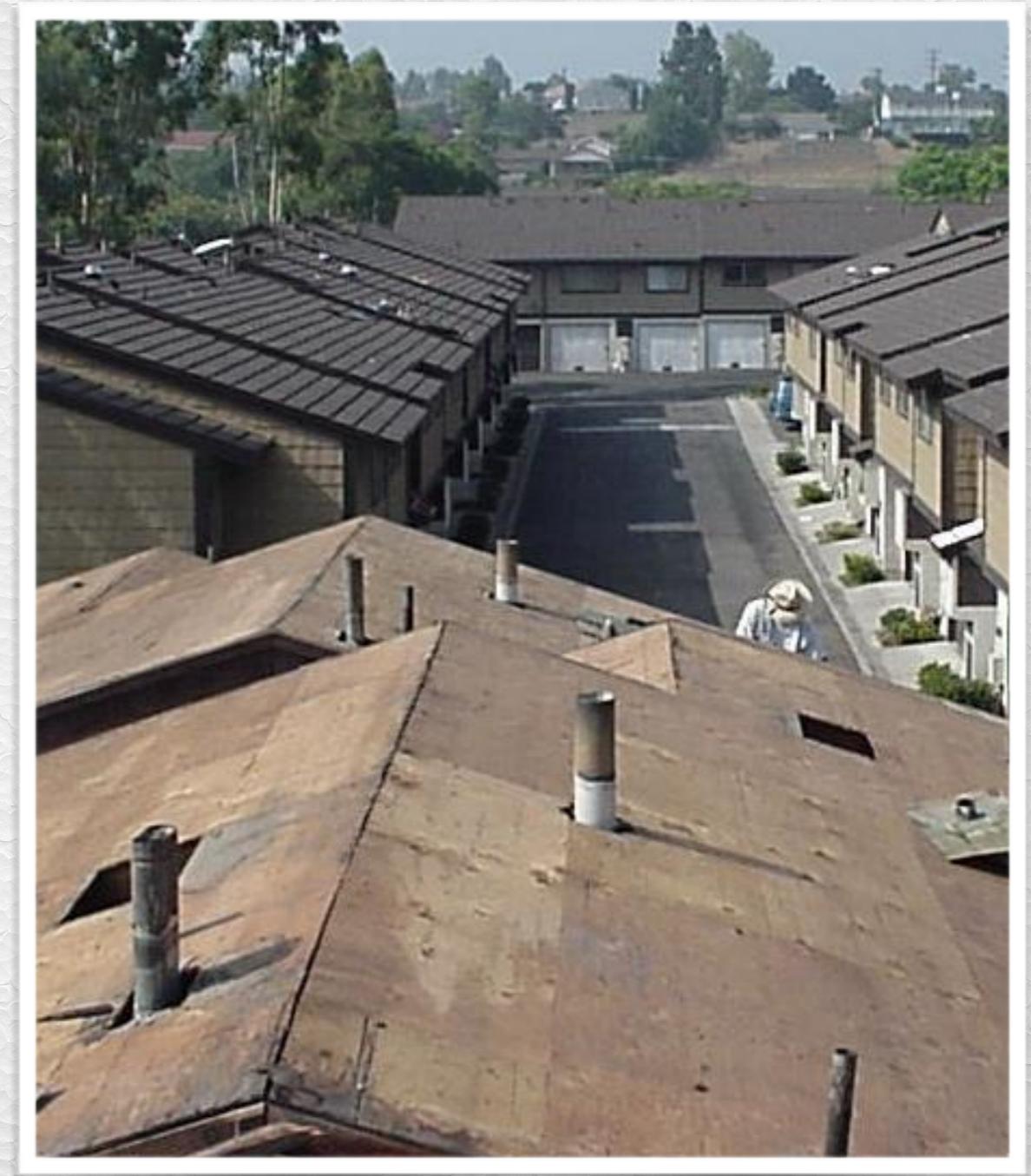
- Plywood
- Underlayment
- Battens
- Tile



# Facts About Wedge-It®

**There is no change in current Roof installation methods.**

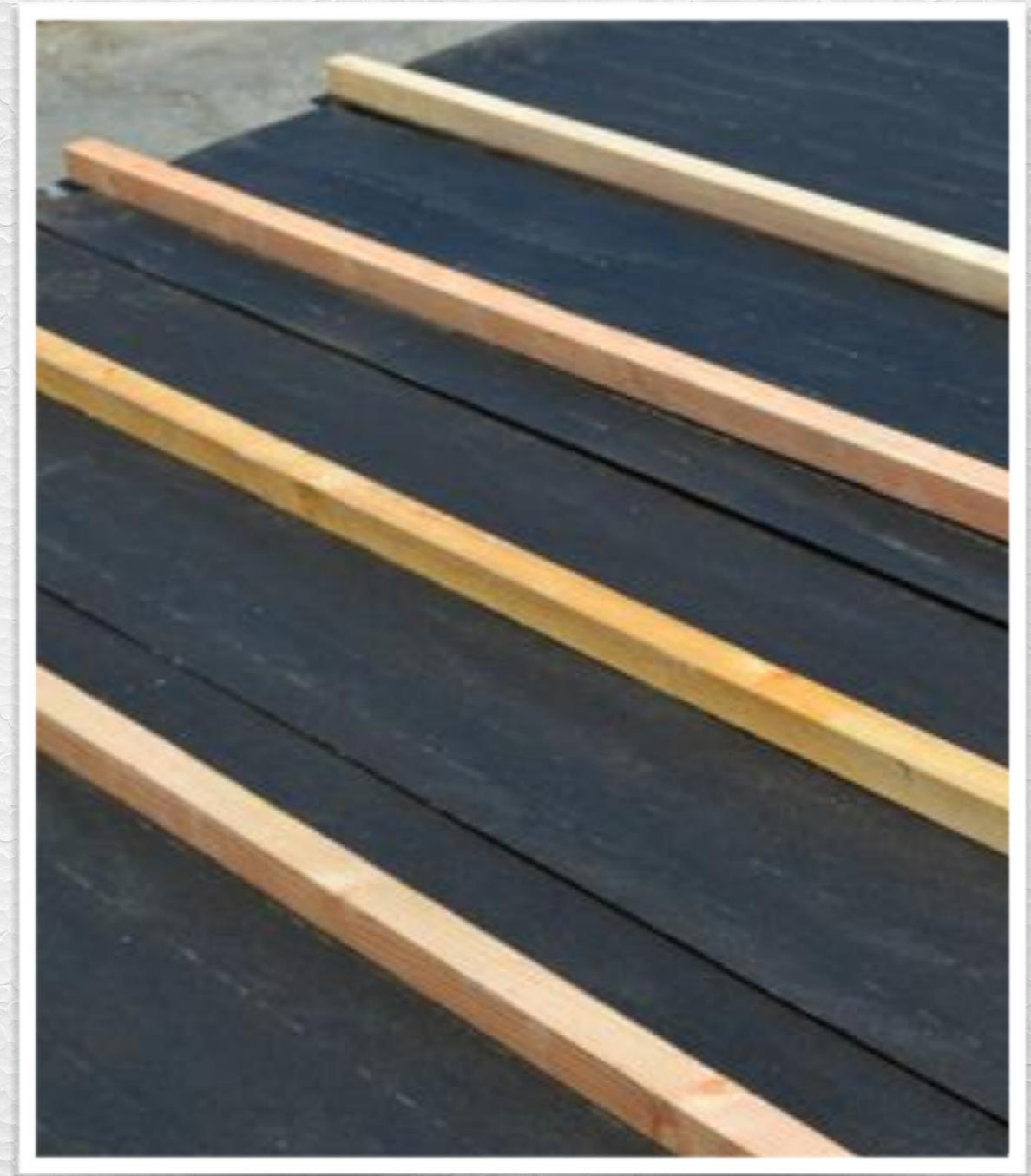
- Plywood— as usual
- Underlayment
- Battens
- Tile



# Facts About Wedge-It®

**There is no change in current Roof installation methods.**

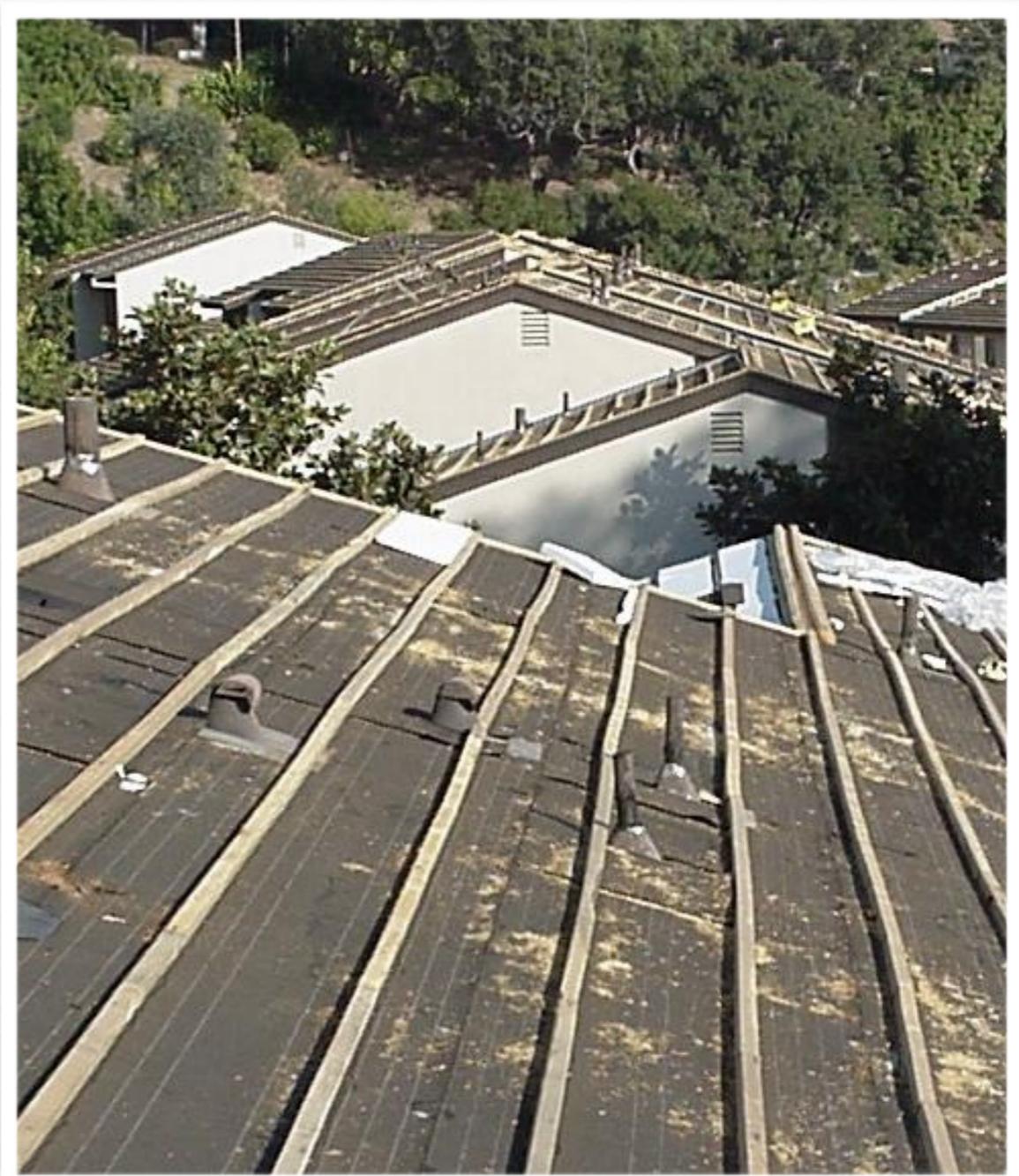
- Plywood
- Underlayment—roll out as usual
- Battens
- Tile



# Facts About **Wedge-It**<sup>®</sup>

**There is no change in current Roof installation methods.**

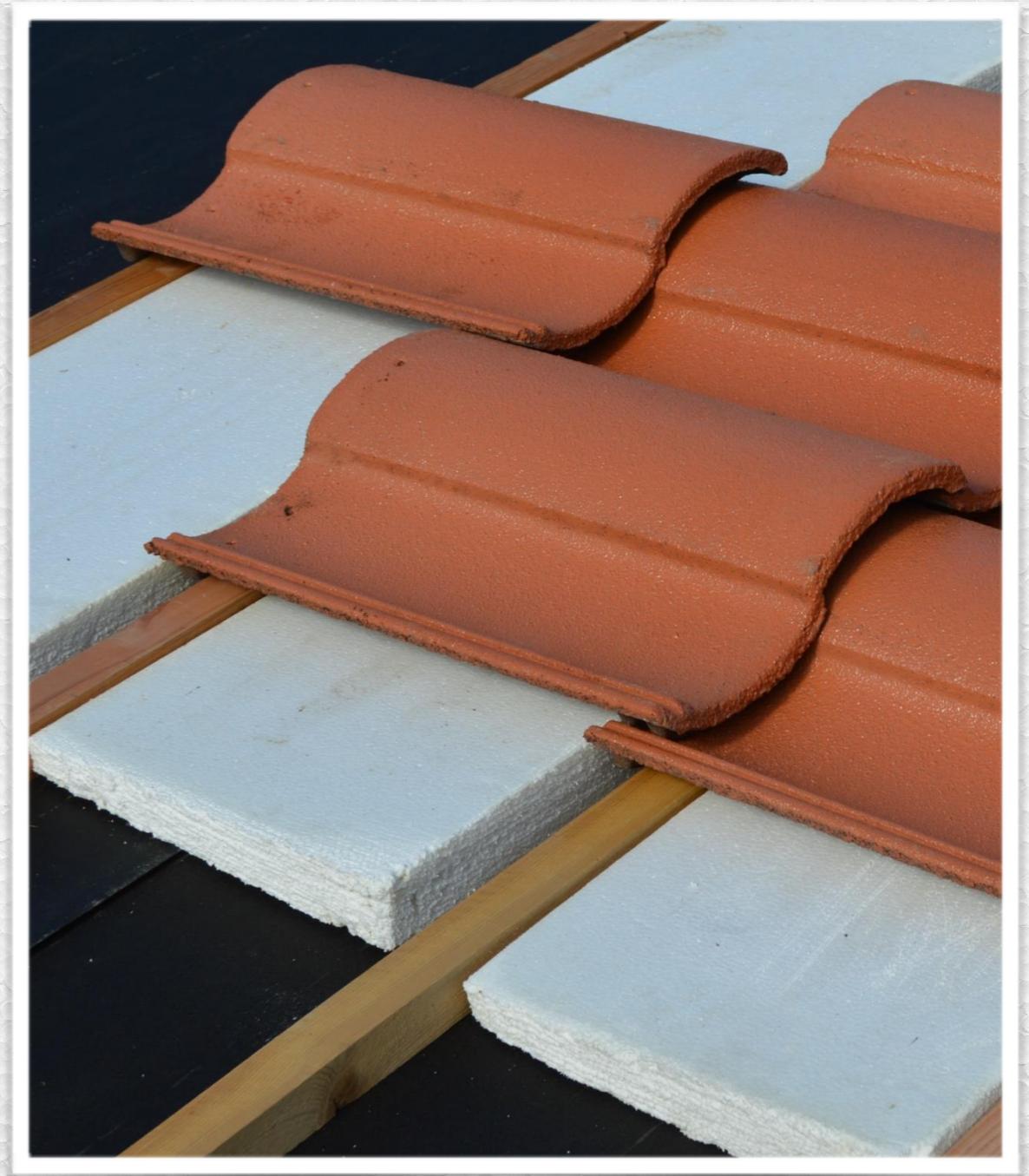
- Plywood
- Underlayment
- **Battens—layout is unchanged**
- Tile



# Facts About Wedge-It®

**There is no change in current Roof installation methods.**

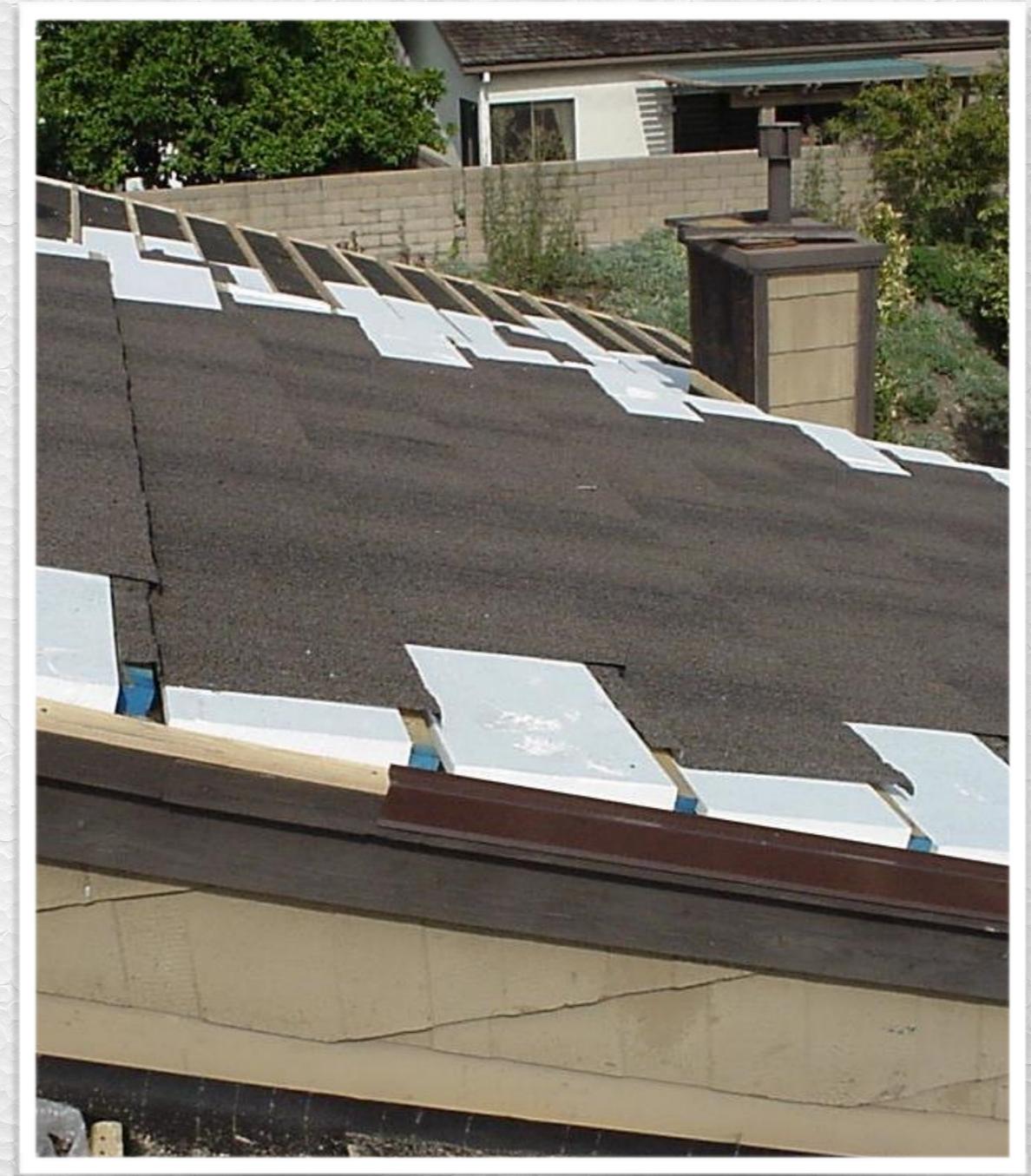
- Plywood
- Underlayment
- Battens
- **Tile—no additional fastening**



# Facts About Wedge-It®

**There is no change in current Roof installation methods.**

- Plywood
- Underlayment
- Battens
- Steel—no additional fastening



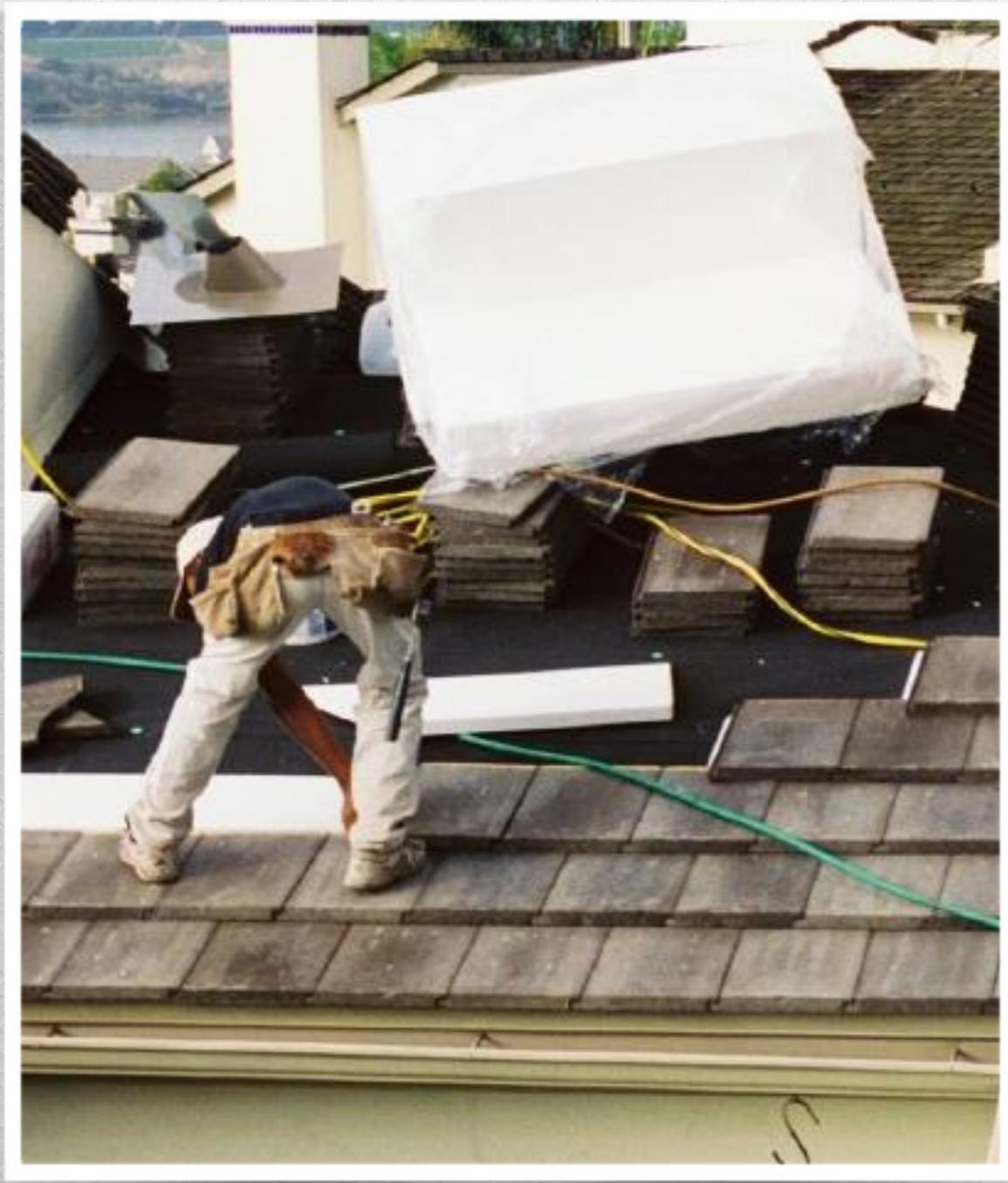
# Facts About **Wedge-It**<sup>®</sup>



**Wedge-It<sup>®</sup> is simply placed into position between battens before installing the tile.**

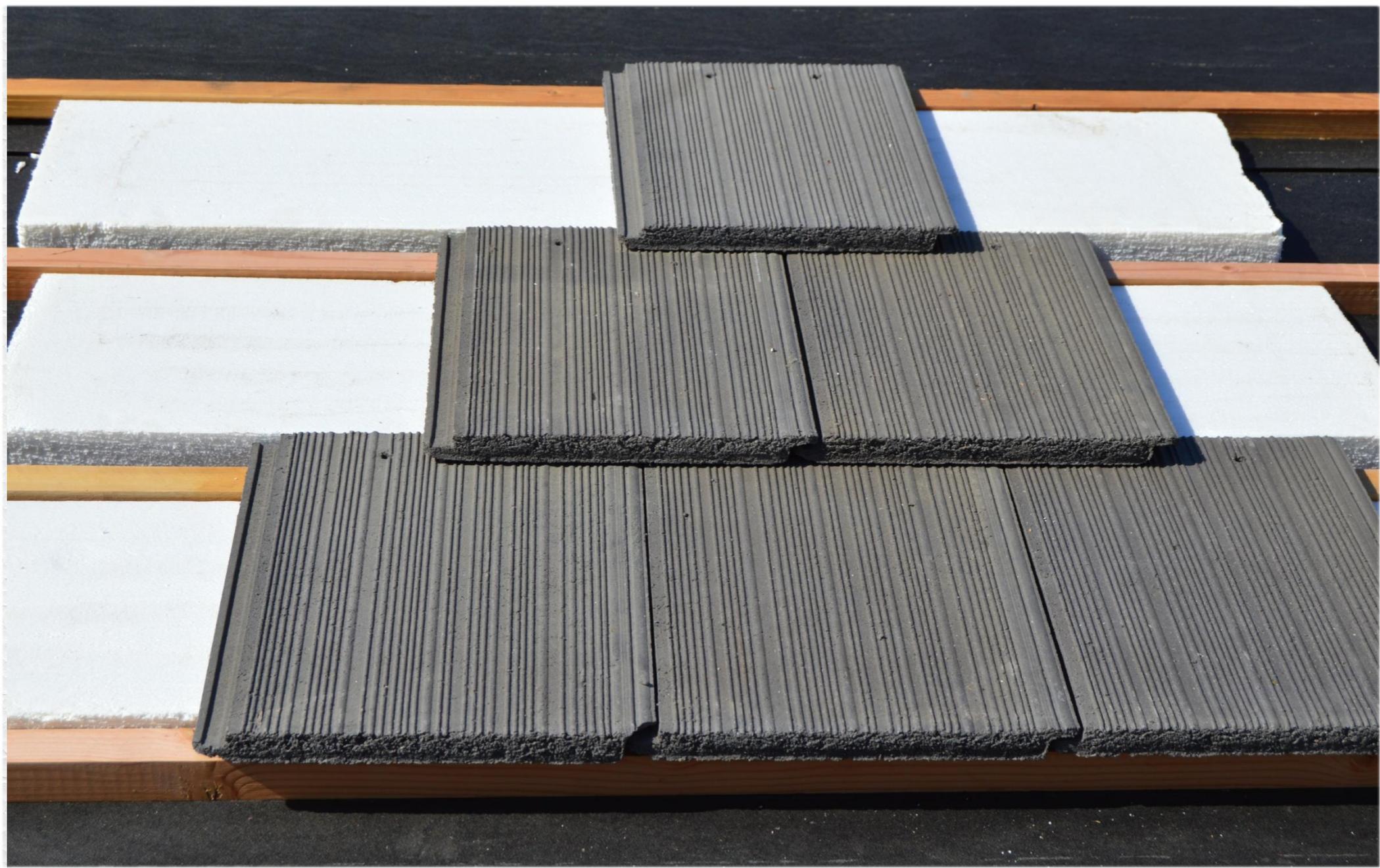
- No change in batten spacing
- No additional fastening/glues
- No tools needed to install
- Learning curve is low
- Install time is minimal
- Material costs are minimal

# Facts About **Wedge-It**<sup>®</sup>



**Wedge-It<sup>®</sup> is held in place by the tile and fasteners.**

# FAQs About **Wedge-It**<sup>®</sup>



# FAQs About Wedge-It®

## Availability?

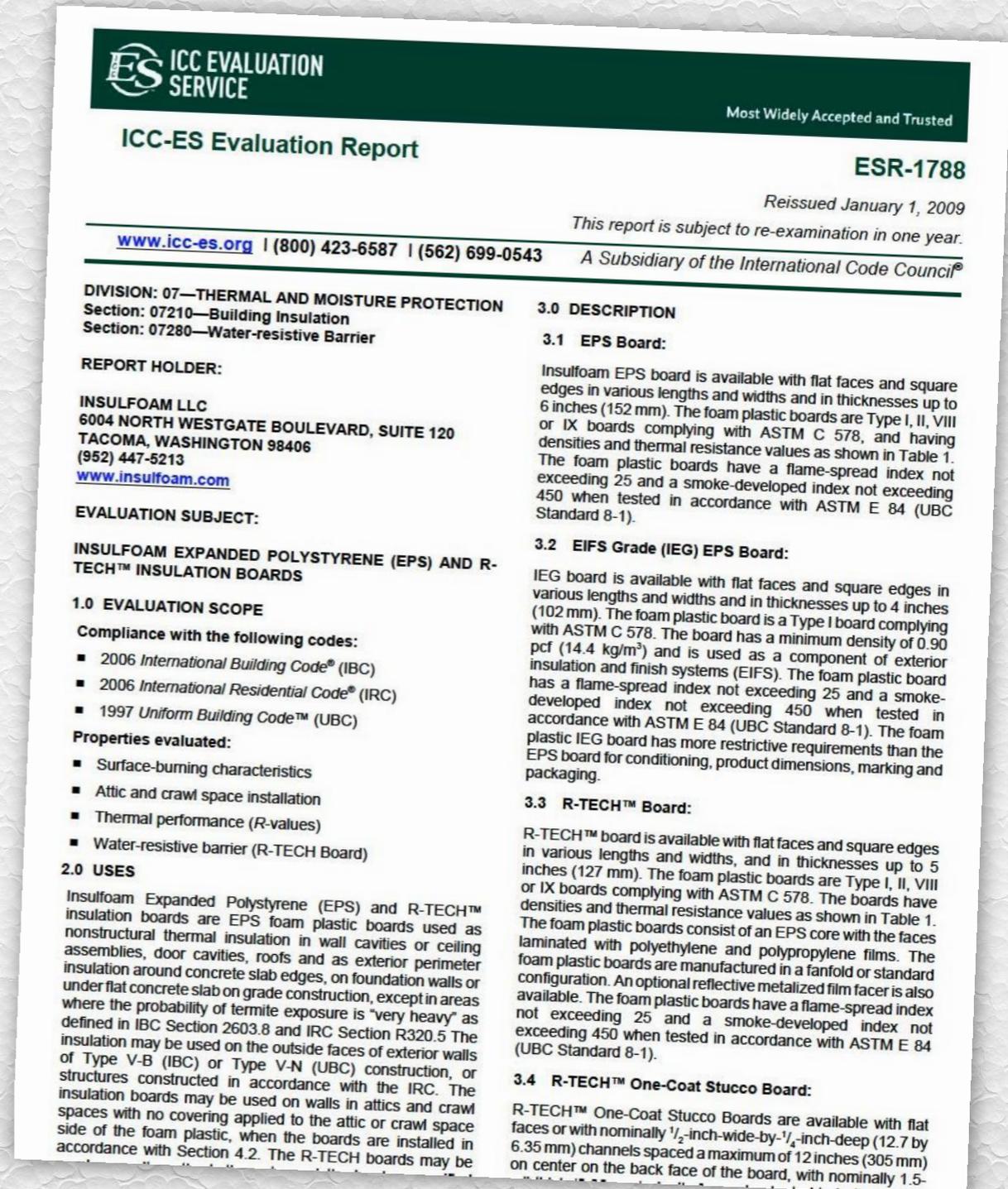
- We have a strategic alliance with **INSULFOAM®**
- We can deliver to all CA markets

**INSULFOAM**®  
A **CARLISLE** COMPANY

# FAQs About Wedge-It®

## ESR Report?

- INSULFOAM® ESR 1788



# FAQs About Wedge-It®

## Is it Class A fire rated?

- RAMTECH LABS full Fire test passes



Number 3 Burning Brand test deck, during the flaming exposure.

### UBC STANDARD 15-2 CLASS "A" FIRE TESTS SERIES

**CLIENT: WEDGE-IT CO.**

DATE OF TEST: MAY 6, 2000

TYPE OF TEST: CLASS "A" BURNING BRAND ASTM #-108/UBC STD. 15-2UL 790

REASON: VERIFICATION OF MAINTAINING CLASS A RATING

LABORATORY NUMBER: 11553 RAMTECH LABORATORIES INC.

**REASON:**

The fire test series were conducted to show that WEDGE-IT Expanded Polystyrene (EPS) boards would not in any way degrade the Class "A" fire rating of a typical concrete or clay tile roofing assembly. EPS foam is supplied by Premier Industries, Inc./DBA Insulfoam which has an ICBO, ES Report No. ER-3414. Wedge-It tapered boards are produced in several sizes and thickness' to accommodate the numerous roofing tile configurations that are being produced for today's market place.

**TEST:**

The heat-affected area was confined to the immediate area of the brand placement and marginally above the brand. There was no displacement of the concrete tile observed during or after the tests. Also, there wasn't any distress noted on the WEDGE-IT boards on the test deck specimens throughout the exposure period. Removal of the Type 30 underlayment indicated the plywood deck was discolored from the melting asphalt but there were no signs of charring on the plywood. Based on the results of these Burning Brand Tests, it is our professional opinion that the WEDGE-IT Roofing system easily meets the Class "A" Burning Brand Requirements.

**CONCLUSIONS:**

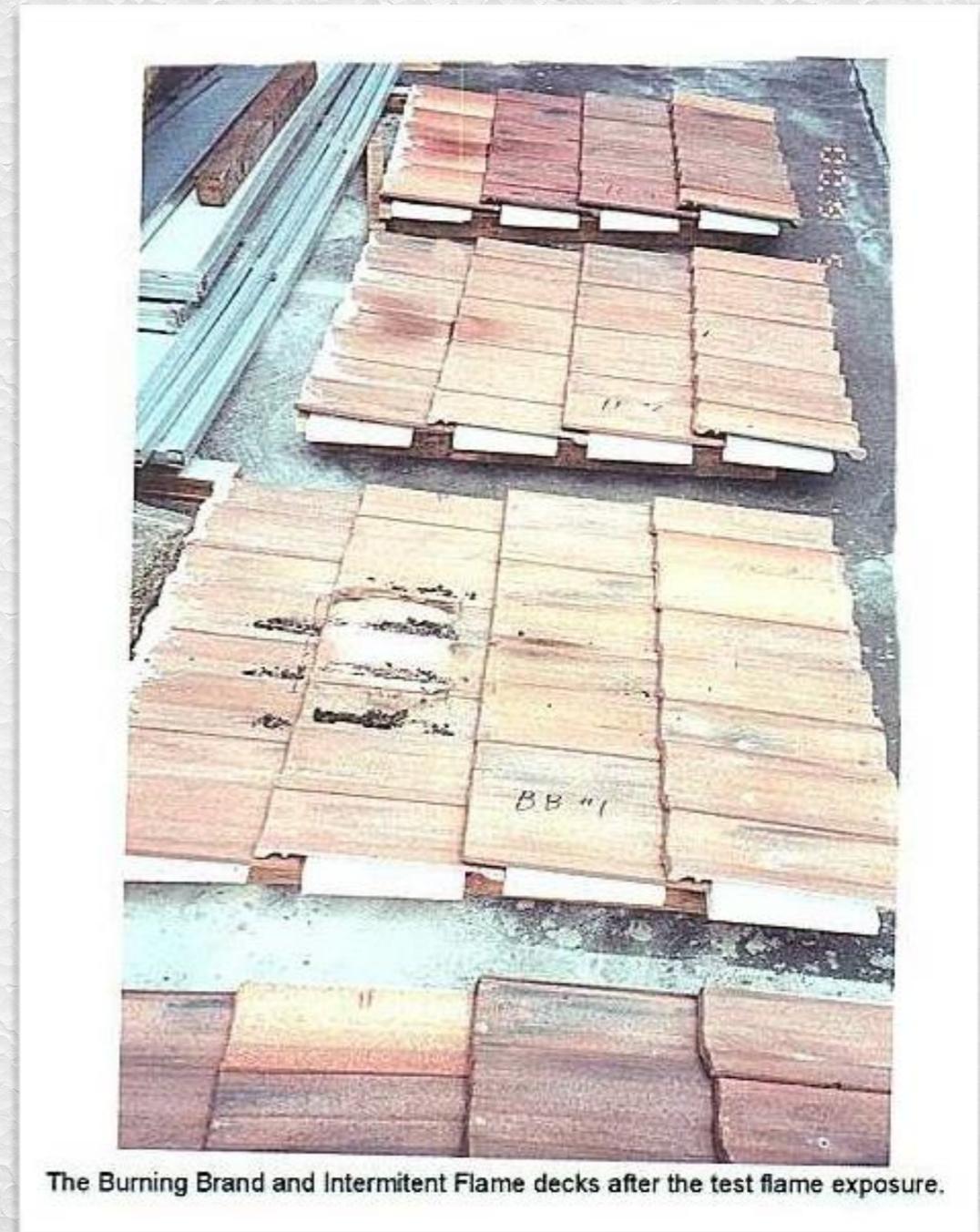
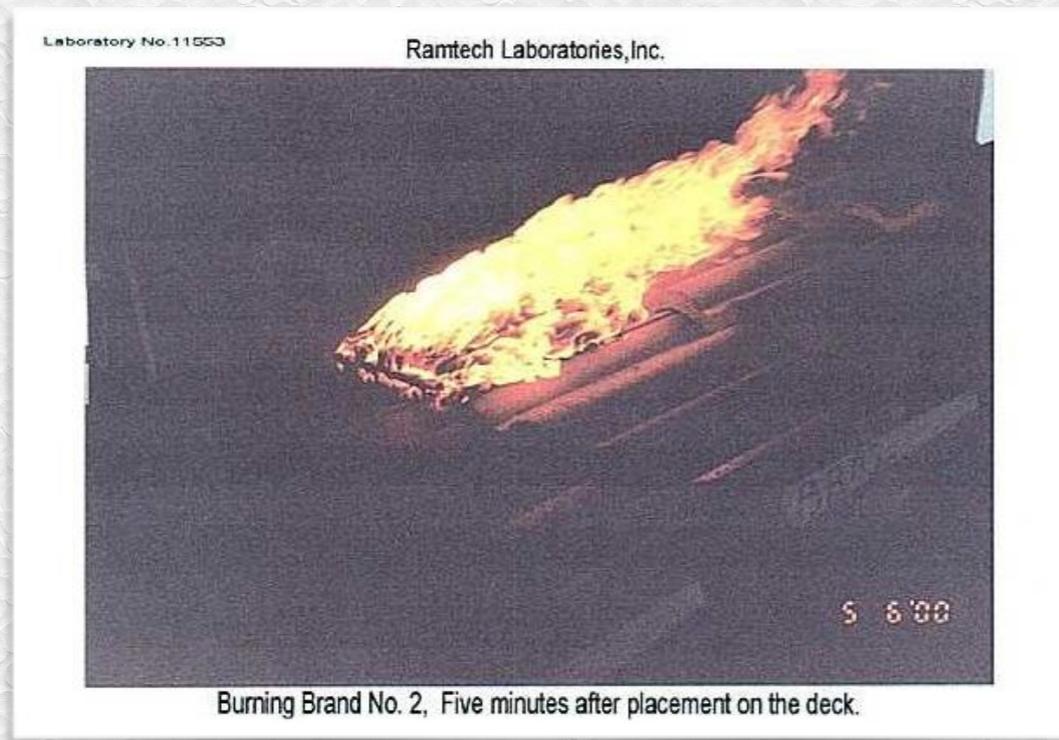
The results of Fire Classification test, in accordance with ASTM E-108/UBC Standard 15-2 for Class A Burning Brand and Class A Intermittent Flame Exposure, show that the WEDGE-IT EPS boards, when installed directly over Type 30 underlayment, and directly below the roofing tile meets the Class A Roof Fire Classification.

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# FAQs About Wedge-It®

## Is it Class A fire rated?

- RAMTECH LABS full Fire test passes



# FAQs About Wedge-It®

## Is it Class A fire rated?

**RAMTECH LABORATORIES, INC.**  
14104 ORANGE AVENUE, PARAMOUNT, CALIFORNIA 90723-2019 • TELEPHONE (562) 633-4824 • FAX (562) 633-4128

UBC STANDARD 15-2 CLASS "A" FIRE TESTS SERIES  
CONDUCTED ON WEDGE-IT  
EPS FOAM BOARD ROOFING SYSTEM

PREPARED FOR:  
GARY SMITH  
WEDGE-IT, CO.  
5011 ARGOSY AVENUE SUITE 12C  
HUNTINGTON BEACH, CA 92649

LABORATORY NO. 11553

REPORT BY:  
RAMTECH LABORATORIES, INC.  
*David R. Macey*  
DAVID R. MACEY  
LABORATORY MANAGER

REPORT APPROVED BY:  
RAMTECH LABORATORIES, INC.  
*Ronald A. Macey*  
RONALD A. MACEY, P.E.  
LABORATORY DIRECTOR

DATE ISSUED: JULY 06, 2000

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ENGINEERING • MATERIALS TESTING



# FAQs About **Wedge-It**<sup>®</sup>

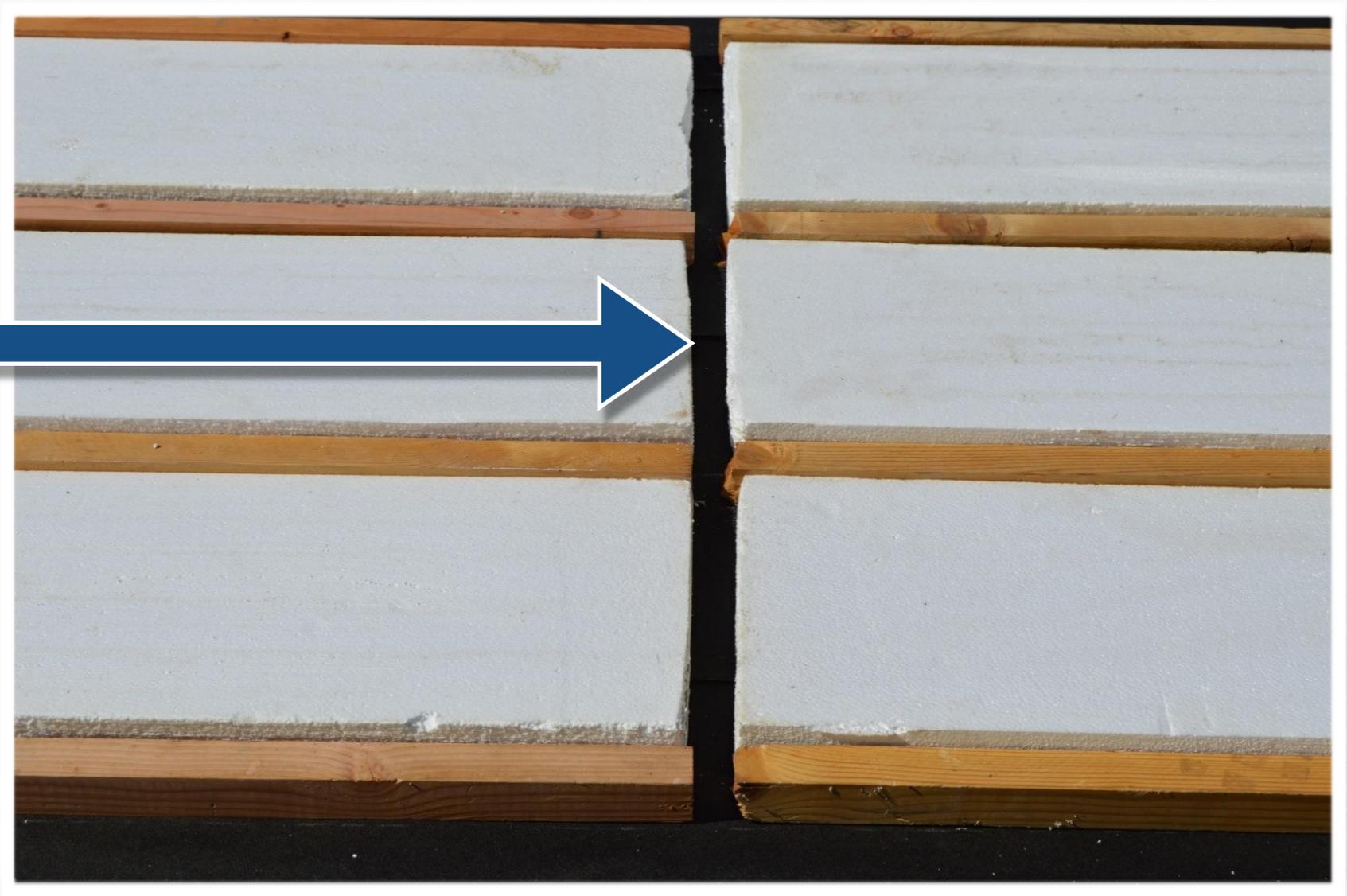
## What about trapped moisture?

- 4 ft. batten layout does not change.  
The gap between each batten in row is the same allowing water drainage behind the batten.
- **Wedge-It**<sup>®</sup> does not absorb water (just like a styrofoam cup)

# FAQs About Wedge-It<sup>®</sup>

## What about trapped moisture?

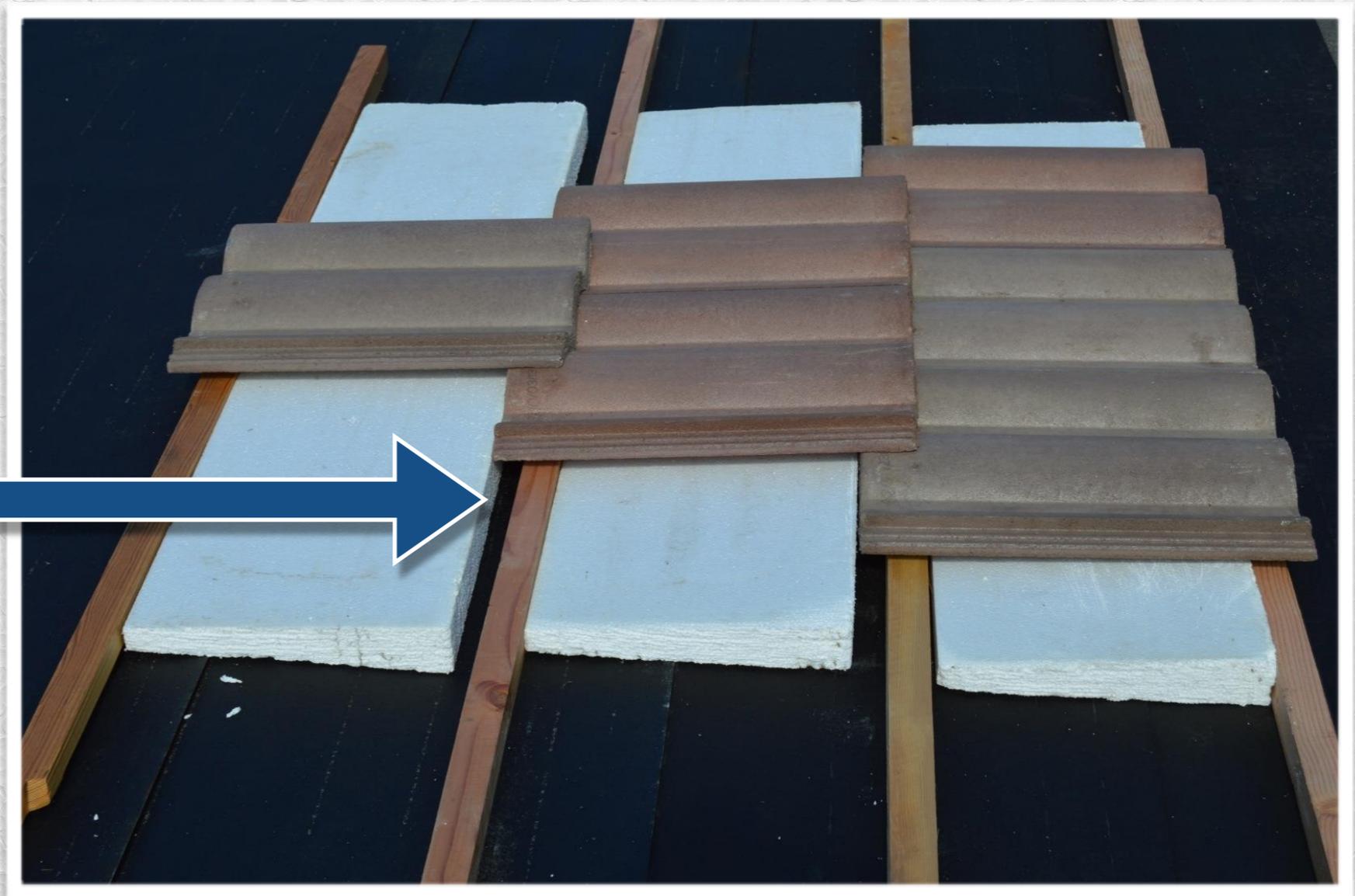
Standard batten  
gap & spacing



# FAQs About Wedge-It<sup>®</sup>

## What about trapped moisture?

This gap allows water to drain horizontally across the batten as usual.



# FAQs About Wedge-It<sup>®</sup>

## Can Wedge-it<sup>®</sup> mold?

- Tests done by **Insulfoam** shows that mold does not grow.  
*You need water absorption for mold to propagate.*

**Tested in accordance with ASTM C1338-00**  
EPS foam scored no traces of mold growth  
over a 28 day period.

# FAQs About Wedge-It®

## Does Wedge-it® Interfere with other phases of construction?

- *Unlike many insulation solutions that require other trades to vacate the premise for installation, **Wedge-It®** can be ordered and shipped with the tile, and installed at the same time as the tile.*



# Wedge-It<sup>®</sup> Summary

- **PATENTED**
- **R-6 Compliant**
- **Title 24 compliant**
- **CLASS A FIRE rated**
- **Mold tested (INSULFOAM)**
- **Moisture absorption tested (INSULFOAM)**
- **PROVEN—16 YRS & THOUSANDS OF HOMES & HOAs**
- **ROOF INSTALL REMAINS UNCHANGED**
- **No additional tools, fasteners or glue required**
- **LOW LABOR TRAINING, AND INSTALL COSTS**



# Above Deck Insulation

Title24 and R-6 Compliant

## Resources:

[Ramtech Fire Test Study](#)

[UBC Fire Test Summary](#)

[Mold Summary](#)

[FAQs](#)

[1997 UBC: Ch.26 EPS Insulation](#)

[ICC-ES Evaluation Report: ESR-1788](#)

[2008 ACEE Summary for R-6](#)