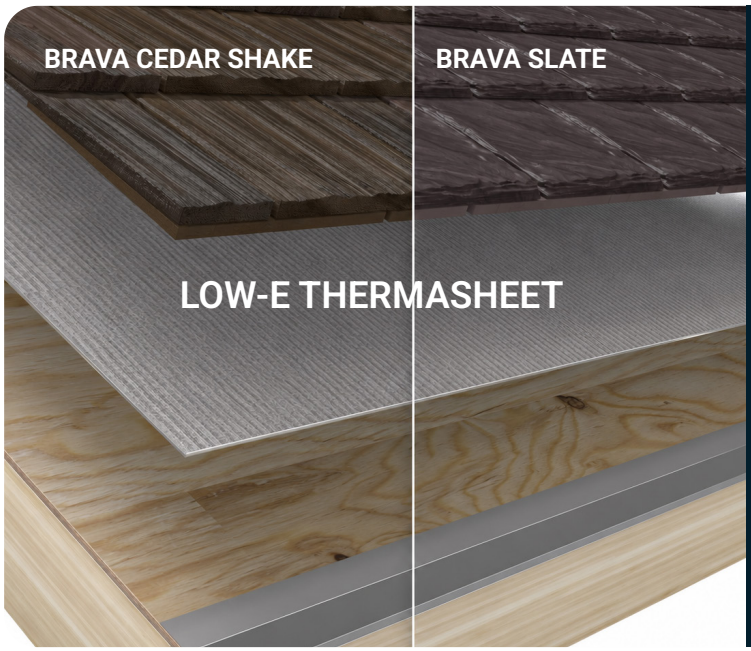
BRAVA

Technical Bulletin

Scope: California Energy Code
Published November 18, 2026
TB-261101

Title 24 Cool-Roof Alternative with BRAVA

Brava Cedar Shake and Brava Slate Above-Deck R-Value with Low-E ThermaSheet®



CALCULATED ABOVE-DECK R-VALUE WHEN PAIRED WITH LOW-E THERMASHEET

WINTER R-2.72

SUMMER R-2.69

SUMMARY

A Brava Cedar Shake or Brava Slate roof color without cool-roof test data or an SRI rating may still be an option under Title 24. The 2025 California Energy Code allows qualifying projects to use R-2 or greater continuous insulation above the roof deck instead of the roof-covering reflectance, emittance, or SRI criteria. R&D Services calculated select Brava assemblies with their unique profile air gap and 1/8-inch Low-E ThermaSheet insulated underlayment at R-2.69+ above the deck. The local building official or AHJ determines whether the assembly meets code requirements.*

CONTENTS

- Assembly and Thermal Performance
- California Title 24 Approval Pathway
- Project Submittal
- Notes & References

RESOURCES

Check for updates to this and other Technical Bulletins on our **Resources Page**.

Complete Installation Training, View Resources, and Access Support by visiting our **Technical Services Portal**.

QUESTIONS

If you have any questions regarding Brava Roof Tile products and accessories, call **844-290-4196**.

Or contact us through the **Technical Services Portal**.

bravarooftile.com
info@bravarooftile.com

BRAVA

Technical Bulletin

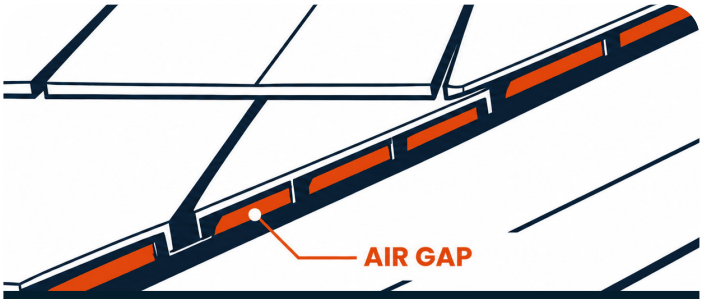
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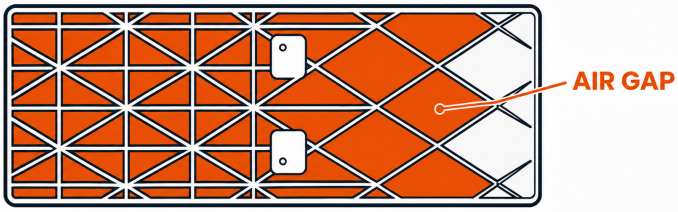
Brava Cedar Shake and Brava Slate Above-Deck R-Value with Low-E ThermaSheet®

Assembly and Thermal Performance

The evaluated assemblies use Brava Cedar Shake or Brava Slate over 1/8-inch Low-E ThermaSheet and over 30# felt - see table below. The underside of these Brava profiles form enclosed airspaces that add significant insulative properties, especially above reflective underlayment. These airspaces provide a much higher R-value than ThermaSheet underlayment alone. R&D Services' calculation models the profile geometry, enclosed airspaces, and the underlayment together. Above-deck values exclude plywood sheathing.



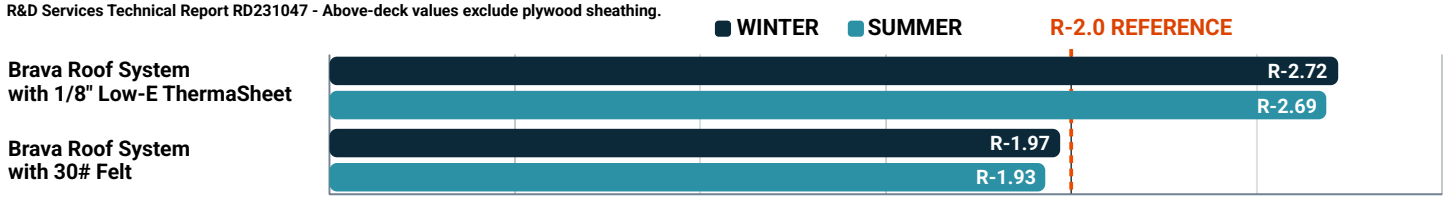
AIR GAP UNDER BRAVA SHAKE AND SLATE



AIR GAP BETWEEN STRUCTURAL RIBBING

CALCULATED ABOVE-DECK R-VALUE | BRAVA CEDAR SHAKE & BRAVA SLATE

R&D Services Technical Report RD231047 - Above-deck values exclude plywood sheathing.



California Title 24 Approval Pathway

California's steep-slope cool-roof requirement sets energy-performance criteria for qualifying reroof projects. For existing **single-family buildings** in Climate Zones 4 and 8 through 15, the requirement applies when more than 50 percent of the roof is replaced. The roof covering must meet either aged solar reflectance of at least 0.20 and thermal emittance of at least 0.75, or an SRI of at least 16. **The 2025 Code lists R-2 or greater continuous insulation above or below the roof deck as equivalent to these criteria. See §150.2(b)1I.i, Exception 1(d). 2025 California Energy Code**. R&D Services calculates above-deck values of R-2.72 in winter and R-2.69 in summer for the specified Brava Cedar Shake and Brava Slate assemblies with 1/8-inch Low-E ThermaSheet insulated underlayment due to the enclosed airspaces formed by these Brava roof systems. These values apply to the complete assembly, not ThermaSheet alone. Without ThermaSheet, Brava Cedar Shake and Brava Slate are calculated as R-1.97 in winter and R-1.93 in summer installed above 30# felt underlayment. If the local building official confirms the installed assembly meets the continuous-insulation requirement in §100.1, this pathway allows the selected Brava color without a separate reflectance, emittance, or SRI rating for this cool-roof requirement.* For **multifamily buildings**, the corresponding provision is **§180.2 (b)1A.ii, item (d)**. It applies when more than 50 percent of the roof area or more than 2,000 square feet, whichever is less, is altered. Other applicable code requirements may still apply.

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Project Submittal

For project review, provide the building official with the standard information required, including climate zone, roof slope, roof area being replaced, and building type. Include this Technical Bulletin, the ThermaSheet specification, R&D Services Report RD231047, and a roof section showing the specified Brava profile. Identify the applicable code exception on the project's energy compliance documents.

Notes & References

*Acceptance of the assembly as meeting the continuous insulation requirement is ultimately at the discretion of the local building official/AHJ (Authority Having Jurisdiction).
The reported R-values apply to the Brava Cedar Shake and Brava Slate roof assemblies when paired with Low-E ThermaSheet. Confirm acceptance with the local building official for the particular project and assembly before making a color selection or purchase. Brava manufactures "Cool Colors" that do have certified SRI values if that is needed. The 2025 Energy Code applies to permit applications filed on or after January 1, 2026. Thermal performance calculations for the Brava roof assemblies were prepared by R&D Services, Inc., an independent building-materials laboratory listed by the Cool Roof Rating Council as an Accredited Independent Testing Laboratory and accredited by IAS to ISO/IEC 17025 for defined testing methods. More about Cool Colors, Title 24, and Title 31 at www.bravarooftile.com/resources.

BRAVA RESOURCES Title 24 & Title 31 Cool-Roof Colors with Published SRI

BRAVA RESOURCES Low-E ThermaSheet® Insulated Roofing Underlayment Spec

2025 CALIFORNIA ENERGY CODE §150.2(b)1I.i Exception 1(d) Single-Family R-2 Alternative

2025 CALIFORNIA ENERGY CODE §180.2(b)1A.ii Item (d) Multifamily R-2 Alternative

2025 CALIFORNIA ENERGY CODE §100.1 Continuous Insulation Definition

BRAVA RESOURCES R&D Services Technical Report RD231047 Cedar Shake & Slate Calculated R-Values

