

CEDAR SHAKE AND SLATE SOLIDS

Application, Estimation, and Installation

SUMMARY

This bulletin provides guidance on the use of Brava Cedar Shake Solids and Brava Slate Solids to enhance the appearance of the finished roof system. Solids are recommended at rakes, in open valleys, and in locations where cut edges are exposed to provide a consistent and realistic appearance while maintaining the performance of the roofing system.

WHAT ARE SOLIDS

Brava Cedar Shake and Brava Slate Solids are optional system accessories designed to enhance the appearance of the overall system at roof edges and other roof details. They share the same size and profile as standard 12" Field Shake and Field Slate pieces, but are fully solid (without underside ribbing) and are heavier in weight.

WHEN ARE SOLIDS RECOMMENDED

Solids provide a realistic appearance when the underside of the shake or slate is visible. They are especially useful at rakes, in open valleys, or around penetrations where cut edges are exposed. Solids enhance visual uniformity and do not affect product or system performance. Solids are also recommended for turrets for exposed cut edges.

COVERAGE & CALCULATIONS

Coverage per Bundle

Rakes	4.16 Lineal Feet
Valley*	4.16 Lineal Feet
Square Feet/Bundle	4.16 Square Feet
Bundles/Square	24 Bundles/Square

*Double the bundles at valleys to allow for cut Solids on both sides of the valley, if applicable.

Note: All quantities in this bulletin are provided without waste.†

QUICK FORMULAS FOR CALCULATIONS

Solid bundles for rakes = Rake LF / 4.16

Solid bundles for valleys = (Valley LF / 4.16) × 2

Solid SQ = Total Solid bundles / 24

Adjusted Field SQ = (Total SQ – Solid SQ)

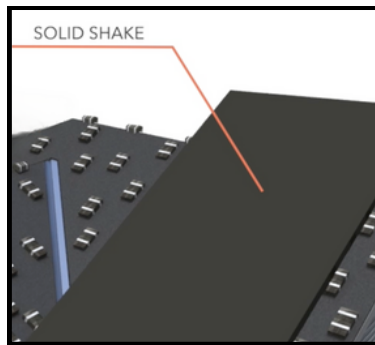
Adjusted Field bundles = Original Field bundles – (0.6 x Solid bundles)

LF - Lineal Feet SQ - 100 Square Feet

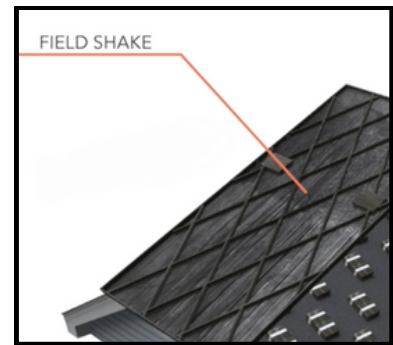
CONTENTS

- What Are Solids
- When Are Solids Recommended
- Coverage
- Material Specifications & Packaging
- Installation Instructions
- Required Special Installation
- Notes
- Resources
- Questions

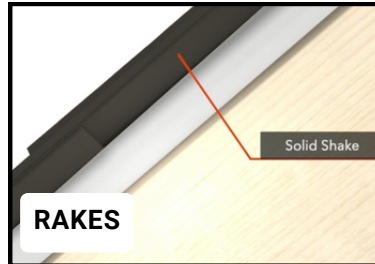
SOLID SHAKE



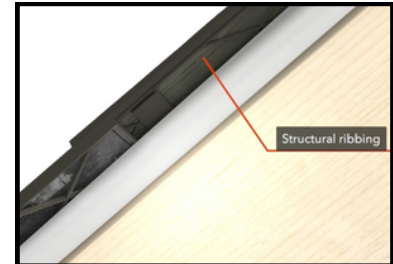
FIELD SHAKE



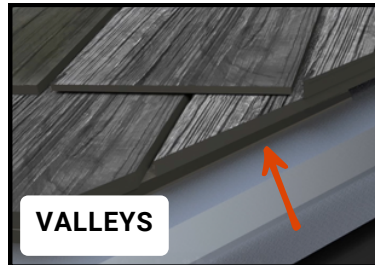
SOLID THROUGHOUT



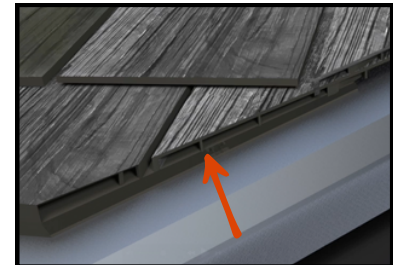
STRUCTURAL RIBBING



RAKES



VALLEYS



REALISTIC APPEARANCE

EXPOSED RIBBING

MATERIAL SPECIFICATIONS & PACKAGING

Dimensions		Weight		Packaging	
Length	22"	Weight/Piece	4.5 lb.	Pieces/Bundle	5
Width	12"	Weight/Bundle	22.5 lb.	Bundles/Square	24
Thickness	1"	Weight/Square	540 lb.	Bundles/Pallet	72
Maximum Exposure	10"	Weight/Pallet	1,674 lb.	Square/Pallet	3
Minimum Keyway Spacing	3/16" (3/8" Recommended)				
Minimum Sidelap	1-1/2"				



SOLID SHAKE



SOLID SLATE

INSTALLATION

Solids are not intended to replace Field Shake or Field Slate entirely. They are selectively installed only where cut edges or the back of the Shake or Slate would be visible. Install Solids following the same Brava installation instructions used for Field Shake and Field Slate. Solids share the same profile and fastening pattern as standard field pieces. Because they are solid throughout, fasteners on cut Solids do not need to pass through the locator area, which can simplify fastening when pieces are cut. Fasteners should still be placed in line with the standard locator positions to maintain proper holding strength and prevent exposed fasteners. When installed with 10" maximum exposure, each 5-piece, 22.5 lb bundle provides 4.16 lineal feet of rake or valley coverage. Alternate exposures will change the coverage.



SPECIAL & CUSTOM DETAILS USING SOLIDS

Brava Cedar Shake and Brava Slate Solids can be used to fabricate custom pieces for unique roof details and design features where standard components may not fit or provide the desired appearance. Solids are recommended for turret installations when cuts are required for proper taper and keyway, and may be appropriate for the entire turret, depending on the design and desired appearance. Because these pieces are solid throughout, they can also be cut and shaped to create custom hip and ridge caps, allowing for a more tailored and seamless finish on specialty installations.

ESTIMATION EXAMPLE

EXAMPLE PROJECT DETAILS:

100 Squares Field - 1,430 bundles

Rakes: 270 LF

Open Valley: 120 LF (Solids needed on both sides)

PRIMARY METHOD: BUNDLES

1) CONVERT LINEAL FEET TO SOLID BUNDLES

Coverage rate: 4.16 LF per Solid bundle.

VALLEYS

Bundles = $(120 / 4.16) \times 2 = 57.7 \rightarrow 58$ bundles

RAKES

Bundles = $270 / 4.16 = 64.9 \rightarrow 65$ bundles

TURRETS (if applicable)

See [TB-240403 -Turret Installation Guidance](#)

TOTAL SOLIDS = 58 + 65 = 123 Solid bundles

2) CALCULATE FIELD SHAKE & SOLID BUNDLE TOTAL

Adjusted Field bundles

= 1,430 bundles - $(0.6 \times 123 \text{ Solid bundles})$

$\Rightarrow 1,430 - 73.8 = 1,356.2$

= 1,357 BUNDLES FIELD SHAKE/SLATE

+ 123 BUNDLES SOLID SHAKE/SLATE

ROOF SYSTEM DETAILS:

10" Exposure

14.3 bundles per square for Standard Field Shake

24 bundles per square for Solid Shake

4.16 LF per Solid bundle

ALTERNATE METHOD: AREA TOTAL

1) CONVERT LINEAL FEET TO SOLID BUNDLES

Coverage rate: 4.16 LF per Solid bundle.

VALLEYS

Bundles = $(120 / 4.16) \times 2 = 57.7 \rightarrow 58$ bundles

RAKES

Bundles = $270 / 4.16 = 64.9 \rightarrow 65$ bundles

TURRETS (if applicable)

See [TB-240403 -Turret Installation Guidance](#)

TOTAL SOLIDS = 58 + 65 = 123 Solid bundles

2) CALCULATE THE AREA OF SOLIDS IN SQ

Square equivalent of Solids = 123 bundles / 24

= 5.125 SQ Solids

3) SUBTRACT SOLIDS AREA FROM THE SHAKE TOTAL

Field Area = 100 SQ Total - 5.125 SQ Solids = 94.9 SQ

$\Rightarrow 94.9 \text{ SQ} \times 14.3 \text{ Bundles/Square}$

= 1,357 BUNDLES FIELD SHAKE

+ 123 BUNDLES OF SOLID SHAKE/SLATE

IMPORTANT! ADD WASTE PERCENTAGE BEFORE ORDERING.

NOTES

Solids are a visual enhancement option only and are not required for a complete and effective system.

Always remove equivalent field pieces from the takeoff to ensure accurate quantities are ordered. Valley usage can vary depending on the cut angle. Always verify design requirements and material amounts. Alternative exposures will affect the required material.

†Typical waste factors for roofing projects vary based on roof complexity and product.

Field Shake/Slate: ~10% | Accessories: Shake/Slate ~15%

RESOURCES

Check for updates to this and other [Technical Bulletins](#) on our [Resources Page](#).

Complete Installation Training, View Resources, and Contact Technical Support by visiting our [Technical Services Portal](#).

QUESTIONS

If you have any questions regarding Brava Roof Tile products and accessories, call 844-290-4196 to reach our support team.

Or contact us through the [Technical Services Portal](#).

