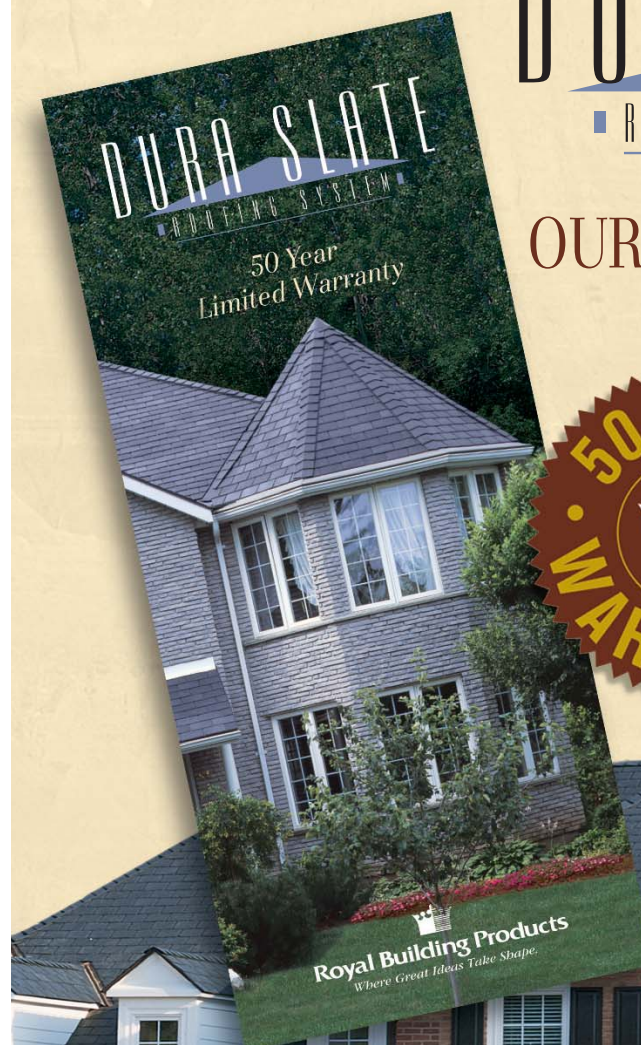


DURA SLATE

ROOFING SYSTEM

OUR WARRANTY is a cut above the rest

An impressive combination of advanced technology and know-how has produced a truly superior product. Our comprehensive 50-year warranty not only provides homeowners with an extra measure of security, but adds value to your home as well.



Authorized Dealer



Slate110PA-01/05

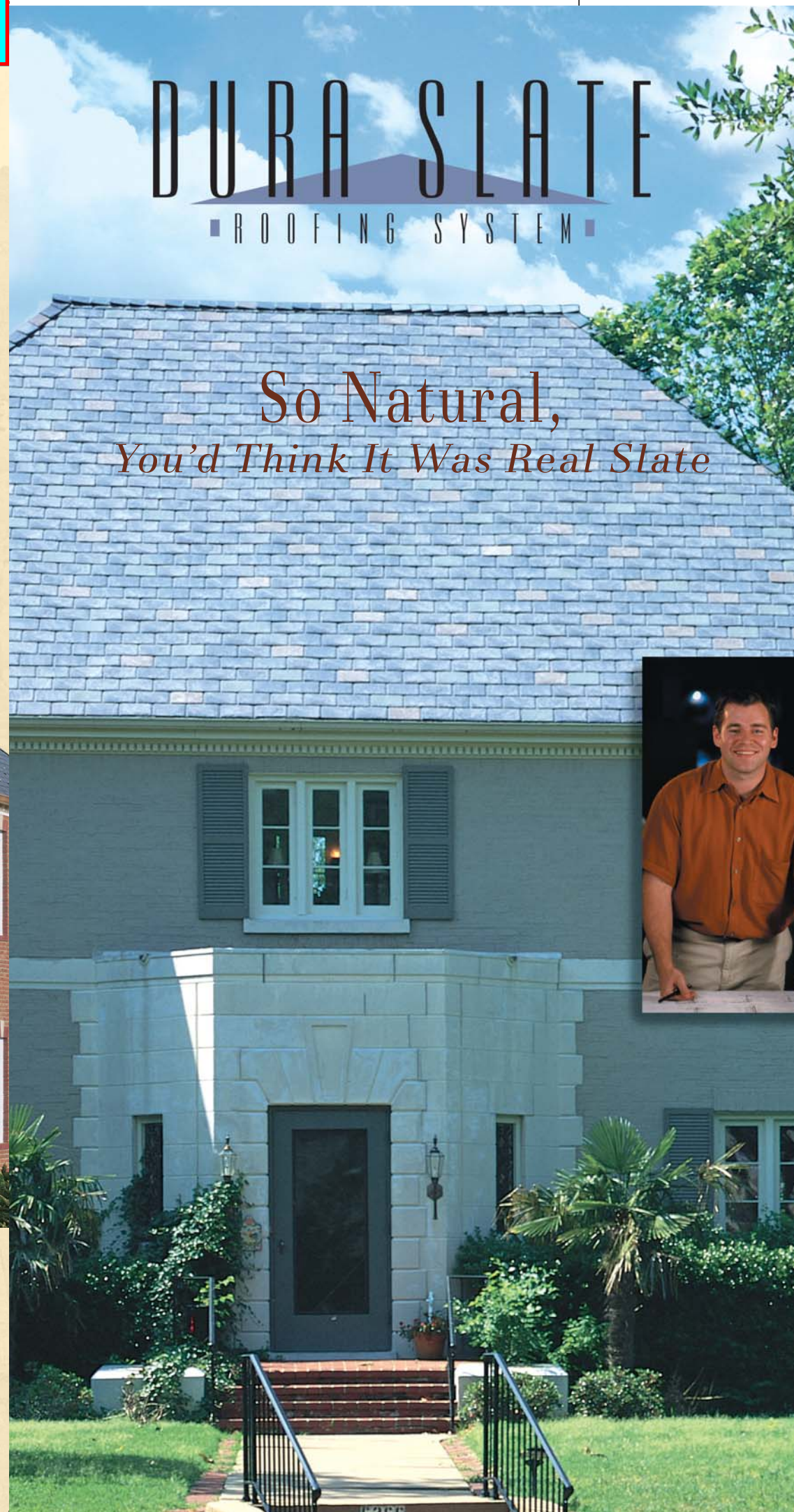


CMYK

DURA SLATE

ROOFING SYSTEM

So Natural,
You'd Think It Was Real Slate



Product and Technical Specifications



Royal Group Technologies is an integrated company, where everything from

raw materials, tooling, computerized mold-making and manufacturing is done in-house. Royal roofing products are not only superior in appearance, but also in durability. Over the years, our heavy investment into high-tech research and development has led to the creation of our proprietary Roytech Polymer Compound and Dura Technology™ Process. The Dura Slate Roofing System represents yet another crowning achievement from Royal.



The Dura Slate Roofing System exhibits exceptional strength and performance thanks to the Dura Technology™ Process and our proprietary Roytech Polymer Compound. This exclusive formulation is enhanced by our Dura™ Impact Modifier Technology, which forms a highly durable roofing system with superior performance capabilities.



Hail Impact Tested

Severe storms can cause enormous damage due to hailstones. Dura Slate Roofing System tiles are subjected to simulated hail tests to ensure our tiles won't dent or chip. The Dura Slate Roofing System is so tough and reliable, homeowners may qualify for a reduction on their insurance premium of up to 40%. Now that's confidence you can depend on.



Hot & Cold Weather Extremes

Royal roofing tiles are subjected to all-season temperature changes, ranging from the freeze-thaw conditions of spring, to the blistering heat of summer and the sub-zero temperatures of winter. These rigorous tests ensure your roofing tiles won't split or spall no matter what the season.



Wind-Driven Rain

The Dura Slate Roofing System undergoes extensive testing to simulate the torrential rains and howling winds of stormy conditions. As a result, your roofing tiles will remain secure while providing a watertight barrier of protection for your home.

DURA SLATE

ROOFING SYSTEM

FEATURES

Manufactured with our proprietary Roytech Polymer Compound

Superior structural integrity and impact resistance

Color-through process: never needs painting

Distinctive low gloss, variegated color and natural slate textures

Lighter weight than slate or clay tiles

Features installation guides for exposure settings, nail holes and spacing

Preformed ridge cap tiles

Will not conduct electricity

50-year limited warranty

BENEFITS

Durable: will not dent, split or corrode

Virtually unbreakable and can be walked on to perform routine maintenance

Hides scratches: virtually maintenance-free

Enhances the curb appeal and architectural design of your home

No added structural costs for new construction projects and perfect for any re-roofing application

No special tools required; can be cut with a common utility knife or circular/hand saw, or power nailed with standard 1-1/2" roofing nails

Improves roof's weatherability and aesthetics

Safer, no grounding required

Peace-of-mind protection for your home

PRODUCT TESTING *information*

Fire Rating and Impact Resistance

UL & ULC (Underwriters Laboratories) listed. For prepared roofing material shingles Class "C" in accordance with UL790 & CANULC-S107-M87. Also listed and classified as to impact resistance Class "4" in accordance with UL 2218.

Ultra Violet (U.V.) Exposure Testing

Tiles were exposed to an accelerated U.V. test (Zenon arc chamber) for 2000 hrs. After 1000 hrs., the tiles exhibited a light even fade of the surface finish with no trace of cracking, spalling or deformation. At 2000 hrs. no further changes were recorded.

Wind-Driven Rain Testing

In accordance with the requirements of ASTM E331 Standard (minimum -1000 Pascals to pass). The test results indicated water did not penetrate the system up to a negative pressure of -2700 Pascals (Testing System Limitations). These results are equivalent to 156 mph or 251 km/hr.

Wind Uplift

In accordance with ASTM D3161 and all provisions set forth for dynamic wind uplift testing, the Dura Slate tiles passed at a wind velocity of 110 mph or 177 km/hr (Testing System Limitations) as per WHI-495-R-0830.

Freeze/Thaw Cycles

In accordance with ASTM C666 Method A, the tiles are subjected to 303 freeze/thaw cycles. The results showed no signs of damage, e.g. spalling, cracking or splitting. "Ortech", an independent accredited lab concluded "The Royal Building Products Dura Slate roof tile displayed a very good resistance to freeze/thaw damage."

Heat Cycle Testing

The tiles were subjected to twenty periods of 24-hour cycles consisting of 16 hours in a controlled chamber at high temperature followed by 8 hours at cool temperature. The results showed no signs of cracking, spalling, deformation or visible expansion.

Nail Tear Strength Testing

The tensile force required to pull a single nail through a roofing tile. Results concluded 250 lbs. or 113 kg. (installed tiles have 4 nails, far exceeding any force that would act upon it).

Nail Pull-Through Testing

"Ortech", an independent accredited lab concluded "The Royal Building Products roofing tile resistance to nail pull-through (27.75 Mpa) far exceeds peak wind pressures of 5 kPa." (204 mph or 329 km/hr). Installed tiles have four nails.

Water Absorption Testing

The water absorption was concluded in accordance with ASTM C272 (water absorption of core materials for structural sandwich construction). The tiles were immersed in water for 500 hours with no appreciable weight gain.

Water Presence Testing

In accordance with ASTM E96-95 (water vapour transmission of materials), the test results have shown the tile to be impermeable.

OUTSTANDING BENEFITS

for years to come

The Dura Slate Roofing System ushers in a new age of durable protection for your home. This innovative and revolutionary roofing system not only replicates the classic look of natural slate but adds character to any architectural style of home. Made of our proprietary Roytech Polymer Compound, this roofing system is as easy to install as conventional asphalt shingles, involves no added structural costs and is virtually maintenance-free. You get the beauty you want, plus the performance you demand, no matter what the weather.



Product Specifications/Packaging

Weight per tile:	1.4 lbs
Width:	12"
Length:	18"

- Fastened with standard 1 1/2" copper, stainless steel or galvanized roofing nails
- Pre-molded hip and ridge caps available
- For 4:12 to 6:12 pitches, use 6" exposure (or 200 pcs/roofing square)
- For 7:12 pitches and steeper, use 7" exposure (or 172 pcs/roofing square)
- No special tools required
- Installation and architect specification guides available

Packaging for Dura Slate Tiles and Hip and Ridge Caps

Pcs per bundle:	30
Bundles per pallet:	40
Pcs per pallet (6 squares at 6" exposure):	1200

Due to the printing process, colors shown may vary from actual product.