

# AGGORA



RIVERCLACK

SHAPING ROOFS

# AGORA

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Viewing buildings from above has become increasingly common in recent times. Beside the possibilities offered by satellite imagery websites, architecture often combines higher and lower volumes, with the lower building's roof viewed as a façade from the taller building.

The concept of the roof as a “fifth façade”, first introduced by the architect Le Corbusier, is now more relevant than ever: whether sloped or flat, roofs have become a significant part of the exterior aesthetics of a building.

Using the same unique technology as the groundbreaking Riverclack®, the stylish new Riverclack® Agora metal roofing panels give a smooth, sophisticated, flat look finish to your building's vital fifth façade.

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# THE PERFECT FINISH FOR ALL 5 FACADES

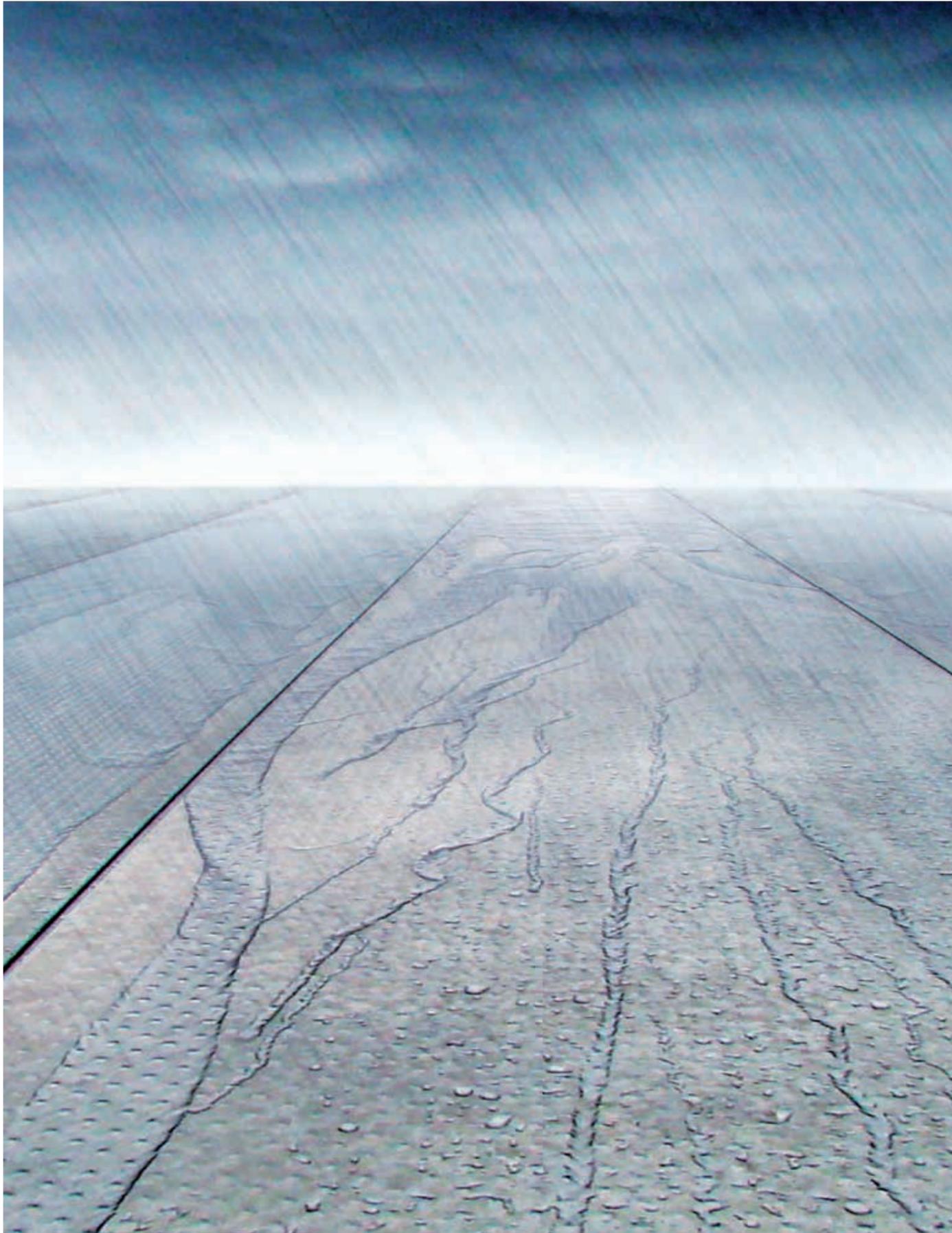
Whatever your perspective, Riverclack® Agora presents a perfect finish, even when your roof is completely flat. The smooth finish and wide range of materials and coated surfaces in which it is available mean that Riverclack® Agora both fits in and stands out in any visual context. The ideal modern façade.





# ONE SOLUTION FOR THE ENTIRE BUILDING ENVELOPE

Originally designed for roof applications, Riverclack® Agora works equally well aesthetically and functionally as a wall cladding solution, for which exactly the same configuration is employed. Custom length panels allow you to create smooth, continuous façades or exciting designs using shorter lengths in vertical, horizontal or diagonal designs.



# AGORA

# AESTHETICS /

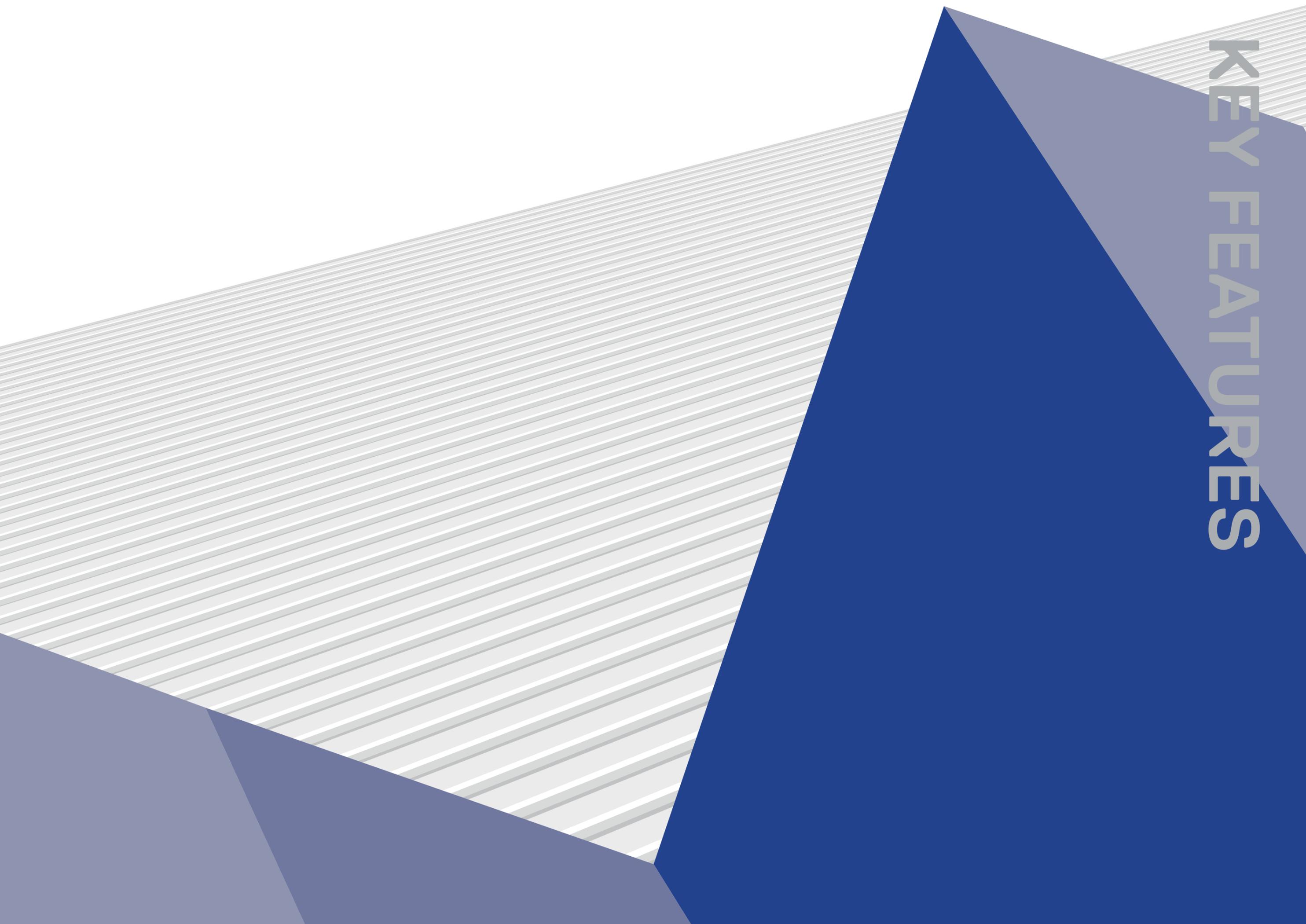
# RIVERCLACK

# PERFORMANCE

Riverclack® Agora uses the same watertight drainage channel technology as the tried and tested Riverclack® system. This means that, after steelwork deflection at panel ends, it can be installed on roofs with pitches as low as  $0.28^\circ$  and, just like the original Riverclack® system, it can be totally submerged in water with no risk of leaks into the building.

The drainage channel and high-tensile geometric locking action system are incorporated underneath the external surface level, so only the flat, aesthetically pleasing exterior is visible.

# KEY FEATURES



# A PROVEN SYSTEM

The Riverclack® Agora secret-fix standing seam metal roof system meets the same exceptional technical standards as Riverclack®, a product that has proved itself the world over under the most challenging climatic conditions. Hardly surprising, because it is the same Riverclack® system turned upside down, so you benefit from the same key characteristics and features:

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THE JUNCTION BETWEEN TWO ADJOINING PANELS FEATURES A DRAINAGE CHANNEL THAT ELIMINATES ANY RISK OF LEAKAGE TO THE BUILDING

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WITH ITS UNIQUE PERFORATION-FREE LOCKING ACTION, THE SYSTEM IS INSTALLED THROUGH SIMPLE FOOT PRESSURE WITHOUT THE NEED FOR SPECIALIST INSTALLATION MACHINERY

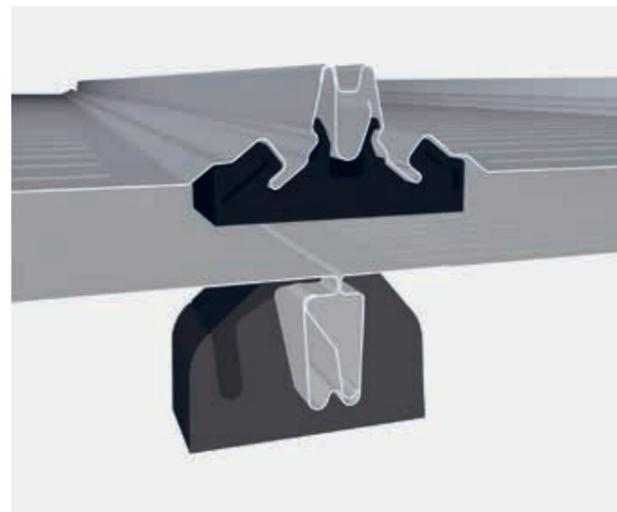
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THE METAL PANELS CAN BE ROLL FORMED ON-SITE, REMOVING THE NEED FOR END LAPS ON LONG SLOPES

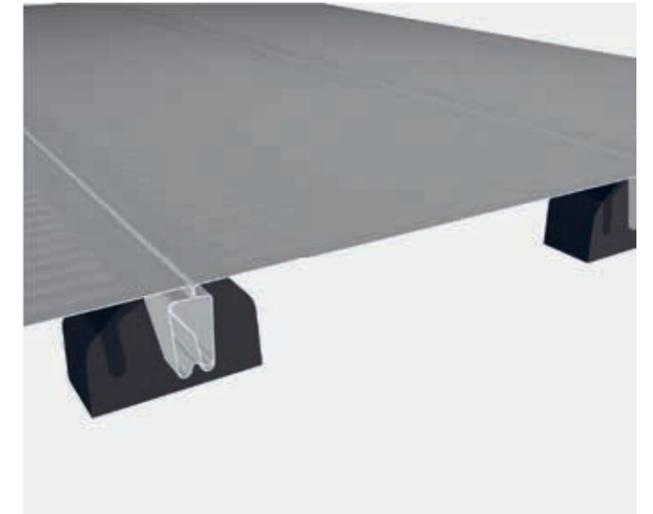
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AVAILABLE AS STANDARD IN THE AMAZING 5754 ALUMINUM ALLOY, WITH A CHOICE OF OTHER SELECT METALS AS OPTIONAL

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## KEY FEATURES OF RIVERCLACK AGORA



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### TOTALLY VERSATILE

The system can be employed equally effectively as a roof covering or as façade cladding.

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### FULLY WATERPROOF

Thanks to its unique gasket-free drainage joint, the roof system is watertight even when completely submerged in water.

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### PERFORATION-FREE LOCKING SYSTEM

The Riverclack® Agora “secret fix” locking system makes no perforations anywhere on the roof surface and allows for free thermal expansion of the panels.

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### DURABLE

Select metals such as aluminum, copper and stainless steel are used in combination with the roof system’s own inherent reliability. All metals are 100% recyclable.

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### FULLY WALKABLE

Thanks to the temper of the metals used, it is possible to walk on the panels after installation without creating any permanent deflection, even after countless heavy-footed trips across their surface.

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### QUICK TO INSTALL

Installation is quick and easy and there is no need for pre-assembly of the clips.

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### COST EFFECTIVE

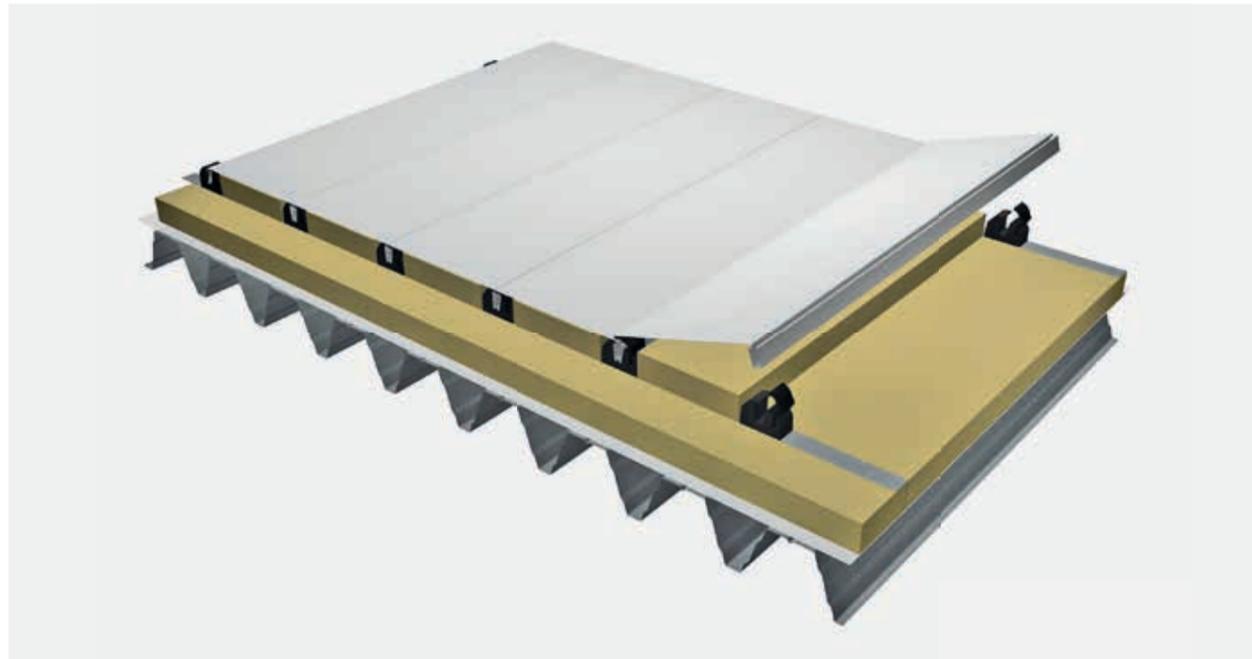
As a long life, low maintenance system with rapid installation, Riverclack® Agora is a cost effective solution for large and small-scale projects alike.

# EASE OF INSTALLATION

The speed with which you install Riverclack® Agora can help you achieve major savings during construction and help shorten project completion times.

No installation machinery, no drilling. Riverclack® Agora uses the same quick and easy installation technique as Riverclack®. With simple foot pressure, the profile clicks into the purpose-built resin clip.

The clip is first snap-locked to the Riverclack® Agora side edge and fixed by two screws to the underlying structure. The moveable appendix of the clip is then pushed into the locking position along with the next panel.



## INSTALLATION IN SIX SIMPLE STEPS

1.



Position the profile in the clip as shown.

2.



The correct location of the clips is determined by the panels themselves.

3.



Secure the clip to the supporting element using the appropriate fixings.

4.



Place the movable appendix of the clip into the side slot.

5.



Hook the next panel to the appendix and push into the locking position.

6.

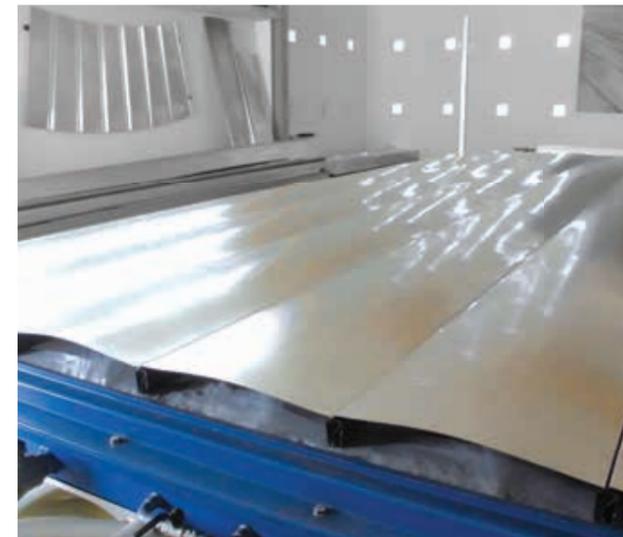


Stand on top of the profile to ensure the panels are properly connected.

# SOLID-ENGINEERED CLIPS

Our solid-engineered clips allow for thermal movement of the panels without any abrasion and guarantee outstanding wind-suction load resistance. Moreover, the clips' resin-based material means that they act as an efficient thermal and electrical break between the roof and the underlying structure.

## SOLID CLIPS



## THE AIRBAG TEST

Riverclack® Agora panels have undergone the same uniformly distributed load tests under laboratory conditions as Riverclack®. The panels were installed on a test rig and a purpose-built plastic airbag was then progressively inflated underneath them to simulate the effects of a wind vortex passing over the roof. A unique combination of the special clips and the high-tensile geometric locking action of the panels' side lap ensures uplift load resistances of up to 8kN/m<sup>2</sup> can be achieved.

# THE DRAINAGE CHANNEL / A WATERTIGHT WARRANTY

Although in heavy rain the external duct of the construction beneath the surface immediately fills with water, so that the joint between two adjacent Riverclack® Agora panels is submerged, the drainage channel feature nevertheless works just as effectively as it does with the Riverclack® system. The high-tensile side lap means that water

cannot easily penetrate the joint and, should this happen, the drainage channel simply captures this water and carries it away to the gutter, eliminating the risk of leaks into the building. The hydraulic section of the drainage channel is designed to process the water that might pass through the joint, even in the most demanding situations such as heavy rain or when extremely long panels are installed.

## THE DRAINAGE CHANNEL



## THE POOL TEST RECONFIRMS RIVERCLACK AGORA'S CREDENTIALS

Riverclack® Agora panels, with no additional side lap sealant, were used as the base of a test pool at our facilities in Verona. The pool was then filled with water, submerging the Riverclack® Agora system, and the external channel of the junction between panels was sealed at the panel ends so that the joint remained submerged for several days. When the system was dismantled, not a single drop of water was found to have leaked through.

## 405MM / THE PERFECT FIT FOR ROOFING AND FAÇADES

Riverclack® Agora comes in one standard width option that has been carefully selected on the basis that it works perfectly, technically and aesthetically, on both roofs and façades.

### PANEL WIDTHS

		SITE ROLL FORMING	MACHINE CURVING	DRAINAGE CHANNEL	MINIMUM ROOF PICH
RIVERCLACK® AGORA		YES	NO	YES	0,6%



## SELF-BENDING AND TAPERED PANELS

Straight Riverclack® Agora panels are self-bending down to a radius of 60m, adapting perfectly to the shape of your roof surface without any additional operations or costs.

Thanks to the new generation of rolling mills that can be equipped with a tapering kit, Riverclack® Agora also offers the option of continuous length tapered and custom width panels, even on-site. The minimum width at the panel's end is 100mm, the maximum 405mm (for standard width coils).

## ON-SITE ROLL FORMING

Where panels are too long to be produced in our factory and then transported to the construction site, we provide on-site forming.

On-site forming can also reduce transport costs and CO2 emissions when the size of your project would otherwise require numerous deliveries to site.

On-site production is carried out to the same high standards as in our factory, with the Riverclack® Agora panels rolled on a fully engineered factory specification production unit.

# A CHOICE OF SELECT METALS

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In addition to the superior 5754 aluminum alloy – with its unrivaled corrosion resistance, mechanical strength and cost effectiveness – Riverclack® Agora is also available in copper, stainless steel, titanium zinc or pre-galvanized zinc. All metals are certified and come from first order suppliers but, being Riverclack®, we still subject every single metal coil to further testing before we use it for our Riverclack® Agora roofing systems. Coils are checked against crucial parameters such as tensile strength, Brinell-scale hardness and yield point to ensure full conformity to the strict manufacturing standards of Riverclack®.

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## 5754 ALUMINUM ALLOY

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Light, strong and rustproof, this is the most cost effective solution. In contact with air, a tough, transparent layer of aluminum oxide that resists further corrosive action rapidly covers aluminum, giving your roof an extremely long lifespan. The Riverclack® 5754 alloy is used in the H18/19 physical state that has an outstanding mechanical resistance to both foot traffic and hail.

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## COPPER

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An elegant metal that is also highly corrosion resistant. Copper develops a “patina” when it weathers, turning it from golden brown to its unique and aesthetically striking blue-green shade.

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## STAINLESS STEEL

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A highly resilient material that hardly thins at all over time. Stainless steel is the ideal choice if total resistance to corrosion is a priority. In highly corrosive environments, for example, or simply when you’re looking for great value in a very attractive material.

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## TITAN ZINC

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Titanium zinc has a very distinctive aesthetic quality, thanks to its beautiful gray patina. It is malleable and so, unlike any other materials used for Riverclack® panels, it requires a rigid back support to allow walkability.

# NON-COATED MATERIAL FINISHES / THE FINISHING TOUCH

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Depending on the metal you’re using, Riverclack® Agora can offer a range of finishes to enhance the visual character of your building.

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## STUCCO EMBOSSED ALUMINUM

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Embossing is a unique stucco pattern that, besides its aesthetic qualities, helps reduce glare – an important issue with airports or buildings near busy roads.



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## ANODIZED ALUMINUM

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Aluminum anodizing provides an aesthetically appealing matt finish, as well as an extra layer of protection against atmospheric agents.



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## PRE-PATINATED COPPER

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Copper is available at various stages of oxidation and patination.



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## PRE-OXIDIZED ZINC

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Zinc, which is always pre-oxidized, offers dramatic architectural possibilities with its ultra-modern combinations of darker and lighter shades.



# COLOR MATTERS

Color is an essential part of architectural design. Aluminum, stainless steel and galvanized steel Riverclack® Agora panels are available in a wide array of standard polyester or PVDF coatings to express the character and ambience of your building.

## BASIC RANGE

A selection of colors that look great in any setting.



PALE GREEN RAL 6021



ANTHRACITE GREY RAL 7016



DUSTY GREY RAL 7037



WHITE ALUMINUM/SILVER RAL 9006 / MET



GREY WHITE RAL 9002



TESTA DI MORO RAL N.A.

## TREND RANGE

Flexible options based on the latest color trends.



OXIDE RED RAL 3009



PASTEL BLUE RAL 5024



LIGHT GREEN RAL 6027



PURE WHITE RAL 9010

## EXCEL RANGE

The entire RAL color collection at your disposal to complement and enhance any aesthetic statement.



COMPLETE RAL COLOUR COLLECTION

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#### FEEL RANGE

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Highly pragmatic and cost effective alternatives to nature's precious natural commodities.



COPPER PATINA LOOK I



COPPER PATINA LOOK II



ZINC LOOK I



ZINC LOOK II

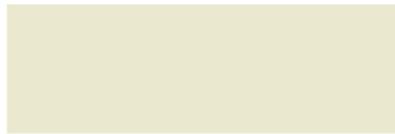
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#### HIGH SRI COLORS: FOR A COOLER ROOF

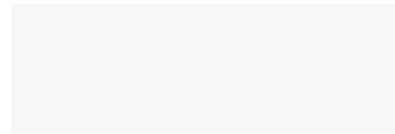
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The SRI (Solar Reflectance Index) measures a material's ability to reflect heat. In warmer climates especially, SRI coatings help cool the roof and reduce the UHI (Urban Heat Island) effect. High-rating SRI colors can also contribute to LEED credits for your building.

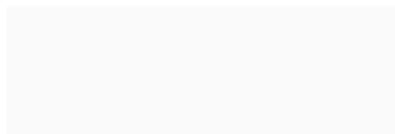
Though white or light colors remain the most reflective, we can achieve relatively high SRI values even in dark colors, by using special pigments.



RAL 9001 PVDF



RAL 9010 PVDF/PE



RAL 9016 PVDF



NCS S 1200 Y50R

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#### SEEING IS BELIEVING

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Because of the unique qualities of the spatial colors and finishes in this section, you have to see them in real life to fully appreciate their impact. Feel free to contact us for samples of the colors that interest you.

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#### THE INFINITE VARIETY OF LIGHT

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These pigments can reflect their own color or that of the base coat. This on-going reflection and refraction creates fascinating color variation that continuously changes depending on the viewing angle and light.



PYRITE GOLD SILVER



PYRITE GOLD RED



AMETHYST PURPLE GREY

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#### THINK ZINC

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A unique self-weathering zinc in a pre-coated aluminum. Zinc particles in the top coat allow the coating to change color over time, from an initial light gray to a darker, naturally weathered finish.



ZINC PRO NEWLY PAINTED



ZINC PRO WEATHERED



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