

RIVERCLACK



RIVERCLACK

SHAPING ROOFS

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Since we created Riverclack® some 30 years ago, our philosophy has always been to help our customers realize their ideal roof, free from restrictions or preconceived ideas about what is and isn't possible: The architect's creative vision without no functional or aesthetic compromises.

The perfect synthesis of form and function, the Riverclack® standing seam metal roof system gives you a unique, high performance solution for flat, curved and even complex-shaped roofs.

INTRODUCTION	01 / 07
History	05
Values	07
HIGHLIGHTS	08 / 23
We are pioneers in flat design metal roofing	11
Flexible shapes / endless possibilities	15
Riding on the shoulders of giants	19
The amazing roofing qualities of aluminum alloy 5754	22
KEY FEATURES	24 / 56
A SYSTEM THAT'S PROVED ITSELF	26
Riverclack key features	27
Lightning fast installation	28
Solid clips / serious quality	30
The drainage channel / a runaway success	31
Panel width options / standard or customized	33
Curved and tapered panels /the versatility you need	34
On-site roll forming and curving	35
AHEAD OF THE CURVE WITH PHOTOVOLTAIC ROOFING	36
A total approach	38
COMPONENTS / ACCESSORIES	40
DESIGNER SHADES /DURABLE MATERIALS	43
A choice of select metals	46
Non-coated material finishes – the finishing touch	47
Color matters	48
PERFORMANCE STANDARDS / TESTS / CERTIFICATIONS	52
Il laboratorio/ Riverclack’s fully-equipped internal test facility	54
Qualified technical support - from design to installation and beyond	55
A GLOBAL PRODUCT	56



HISTORY

Founded in 1964 and named after its founder, ISolanti COpertura Menegoli (Menegoli Insulation and Roofing) was amongst Italy's pioneers in the 1970s in the use of aluminum alloys for roofing and cladding.

The quest for a roofing system that would solve the problems inherent to traditional metal roofing led in 1987 to the creation of the Riverclack® system, a revolution in roofing technology. Thanks to its unique features, Riverclack® quickly established itself on the market as THE “flat metal roofing system”.

Today, ISCOM and Riverclack® are in rapid international expansion and countless buildings across the world enjoy the protection and beauty of Riverclack® systems.



VALUES

ENTHUSIASM

For roofing, for our work. We can't help ourselves: pass a building with a Riverclack® roof and we simply have to stop and say, with more than a little pride, "we made that."

CRAFTSMANSHIP AND EXPERIENCE

Technology plays a vital role in our business, but we see craftsmanship and experience as equally important qualities that you'll find throughout our highly motivated workforce.

CREATIVE INNOVATION

Innovation and creativity produced Riverclack® in the first place and continue to drive our ambition to meet evolving market demands with new materials, new solutions and new accessories.

QUALITY AND RELIABILITY

Quality is a way of life for us. It means doing it right every time, which means the highest quality standards to deliver the highest quality results, but it also means reliability: quality work retains its quality over time.

CUSTOMER-FOCUSED FLEXIBILITY

Just as every roof is unique in its geometry, lines and details, so every customer is unique. Our entire production process, from design to after-sales, is flexible and responsive enough to meet the changing technical and architectural needs of our customers during projects.

SUSTAINABILITY

"We haven't inherited the Earth from our ancestors, but borrowed it from our children." Attributed to American Indians, this sentence perfectly captures ISCOM's philosophy as a socially committed family business. From the raw materials we use, to our recycling practices, to the clean energy our products help generate: real commitment to a sustainable future requires not words, but actions.

HIGHLIGHTS





WE ARE PIONEERS IN FLAT DESIGN METAL ROOFING

Who says a flat roof can't enjoy the benefits of metal roofing's great looks and long life performance?

With Riverclack®, designing a flat metal roof couldn't be simpler. Its unique drainage channel means it can be used on slopes as low as 0.5% after steelwork deflection at the ends of the panels. In fact, Riverclack® is fully watertight and the first standing seam metal system that can be completely submerged in water without any risk of leakage to the building.

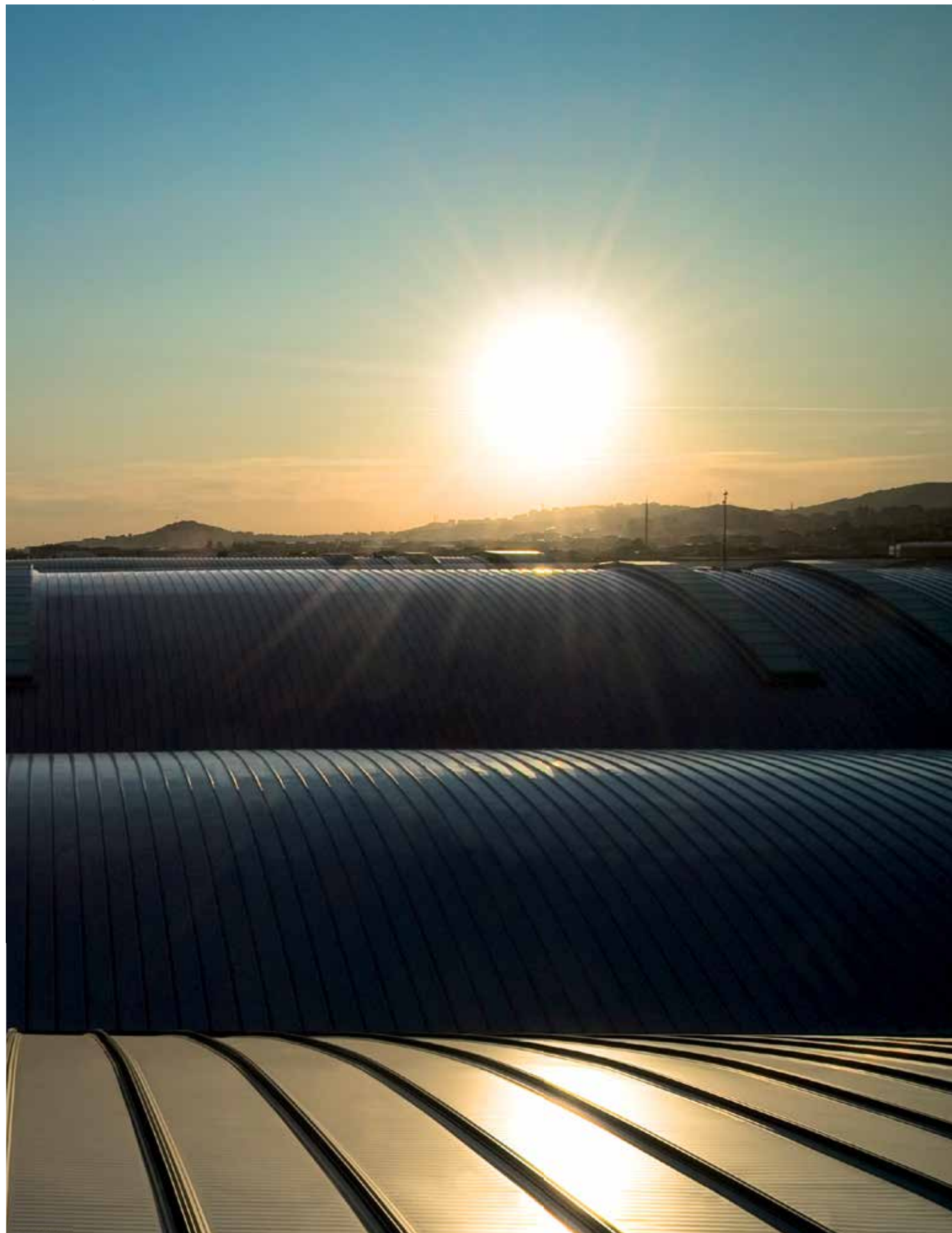




FLEXIBLE SHAPES / ENDLESS POSSIBILITIES

Countless designs are possible with Riverclack®. Convex, concave and “S” curves can all easily be achieved with self-bending or mechanically curved panels formed either in our factory or on-site. Tapered and custom width panels offer even more creative options so that, whatever your vision, the shape of your roof envelope need never be a limiting factor.





RIDING ON THE SHOULDERS OF GIANTS

Airports, arenas, stadiums, warehouses. Large-scale projects hold no fear for Riverclack®. From the 178m long panels, roll formed on-site at the Marks & Spencer distribution center in Bradford, UK, to the 115m panels roll formed on-site at the AIA factory in Verona, northern Italy. Thanks to its unequalled structural and design performance, Riverclack® is up to the most challenging roof rides imaginable.



THE AMAZING ROOFING QUALITIES OF ALUMINUM ALLOY 5754

By adding magnesium, one of aluminum's toughest alloys was created: alloy 5754. Light and strong, the 5754 aluminum-magnesium alloy is widely used in aircraft, automotive and container applications. Its excellent resistance to atmospheric and seawater corrosion makes it ideal for marine environments, where it performs far better than standard 3000 series alloys.

What better material for a roofing system? The outstanding qualities of the 5754 alloy used at its H18 temper mean nothing if you can't exploit them. Over three decades, Riverclack® has developed the expertise and

know-how to achieve the perfect balance of toughness and ductility in the 5754 H18 alloy, as well as the capability to profile this alloy to create the unique properties of Riverclack®. This creates a roofing system that not only has exceptional non-deforming walkability and hail resistance qualities, but also allows for thinner (0.7mm) panels than other companies (min. 0.9mm) while maintaining its superior levels of performance.

In a roofing industry that generally uses alloys from the 3000 series, Riverclack® has pioneered and mastered the use of the far superior 5754 H18 alloy. Why settle for less?



FULLY WALKABLE

The 5754 H18 alloy means that you can walk on any Riverclack® roof without affecting its metal surface in any way. Riverclack® panels are tested for walkability under laboratory conditions: the continual application and release of increasing point loads onto the Riverclack® panels via a rubber-clad piston simulating constant foot traffic demonstrated an incredibly high point load resistance of almost 400kg.

KEY FEATURES



A SYSTEM THAT'S PROVED ITSELF

The Riverclack® secret-fix standing seam metal roof system has proved itself under the world's most challenging climatic conditions.

The metal panels can be roll formed on-site, removing the need for end laps on long slopes.

The junction between the adjoining panels features a drainage channel that eliminates any risk of leakage to the building.

With its unique perforation-free locking action, the system is installed by foot pressure alone, so there is no need for specialist installation machinery.

RIVERCLACK KEY FEATURES



FULLY WATERPROOF

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

PERFORATION / FREE LOCKING SYSTEM

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

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.

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.

QUICK TO INSTALL

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

COST / EFFECTIVE

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

HIGHLY SELF /BENDING

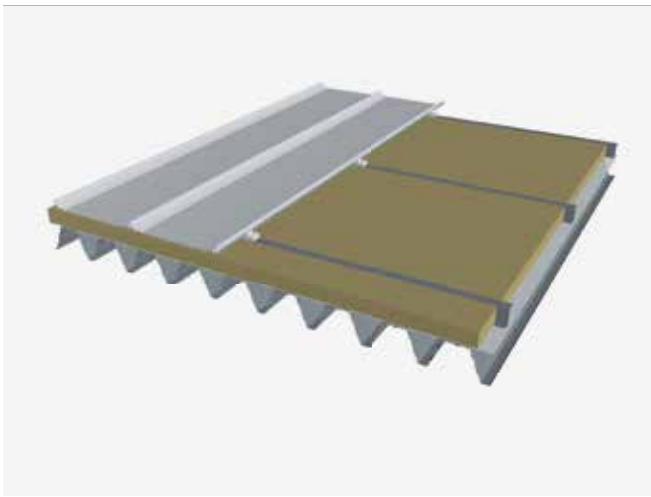
With probably the highest self-bending capabilities of any structural standing seam system, Riverclack® panels can self-curve down to a minimum radius of 25m (0.7mm mill-finish aluminum), thereby removing the extra costs of machine curving work.

LIGHTNING FAST INSTALLATION

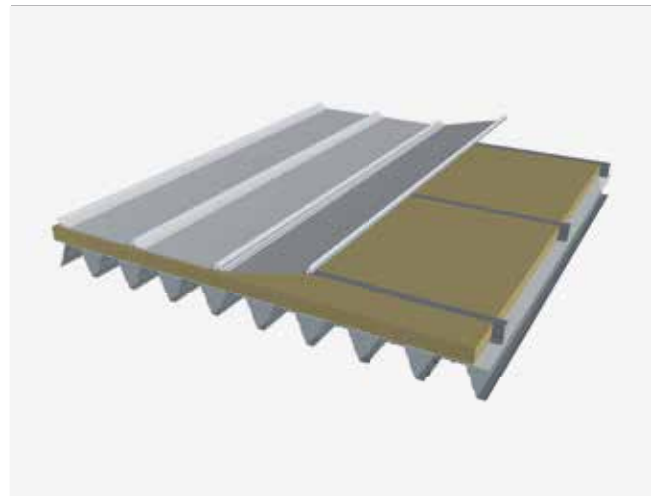
No installation machinery, no drilling. The unique Riverclack® high-tensile geometric locking action system is installed through simple foot pressure on the purpose-built resin clip. There is also no time consuming pre-assembly of the clips: their position on the space system beneath is progressively set during the installation of the panels.

NO PRE-ASSEMBLY OR MARKING OUT POSTIONS OF THE CLIPS

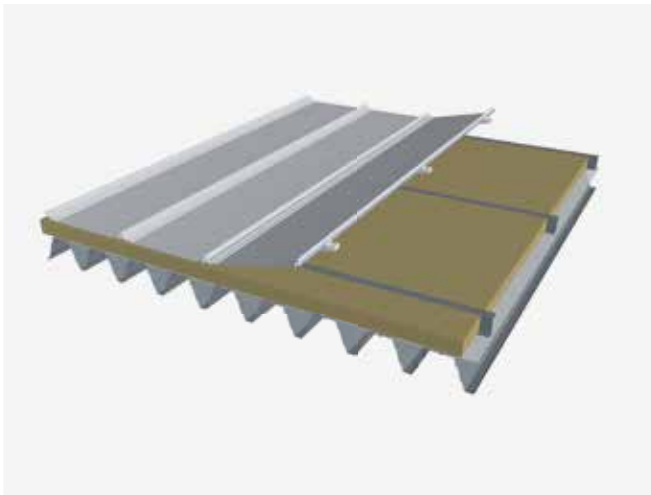
1.



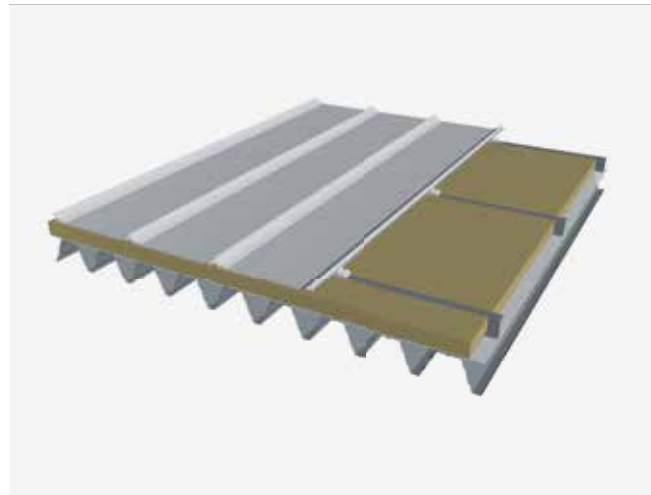
2.



3.



4.



INSTALLATION IN SIX SIMPLE STEPS

1.



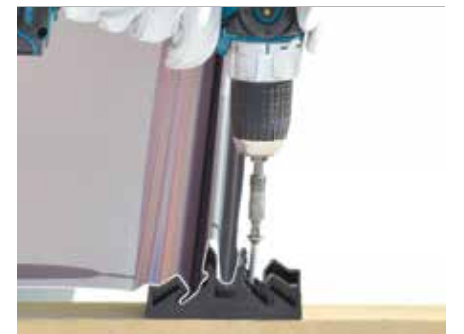
Ensure that the profile is correctly positioned in the clip by pressing it in as shown.

2.



Push down carefully until the panel locks into place (you should feel a "click").

3.



Secure the clips to the supporting element using the appropriate fixings. The panels themselves determine the correct location of the clips.

4.



Place the overlapping edge of the next panel into the clip by repeating step 1.

5.



Apply pressure as shown.

6.

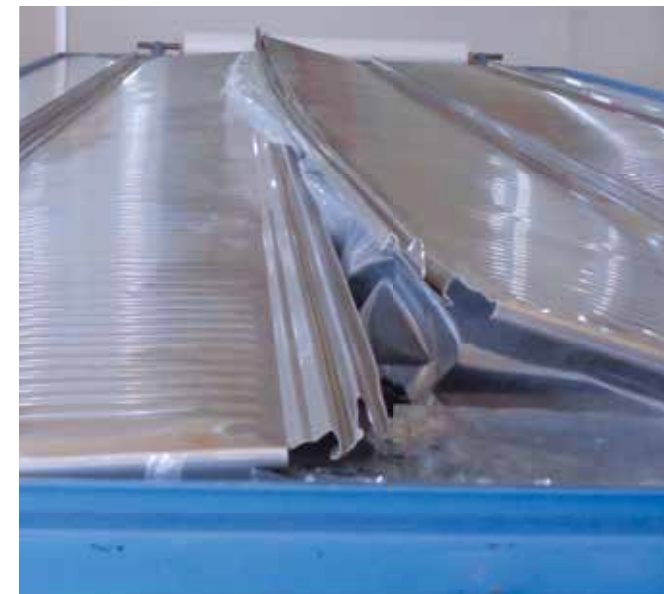
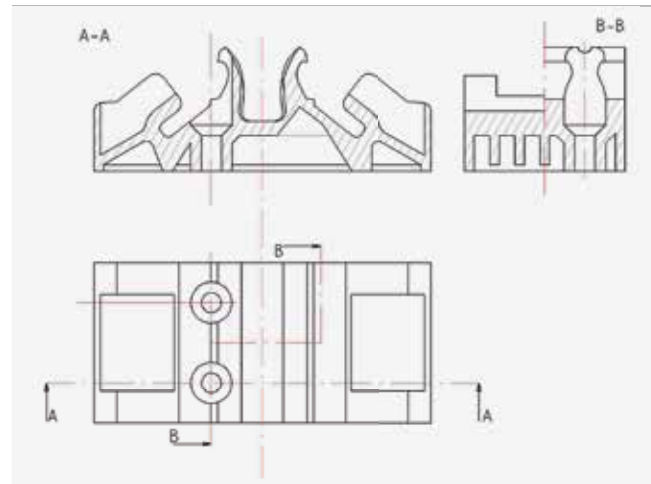
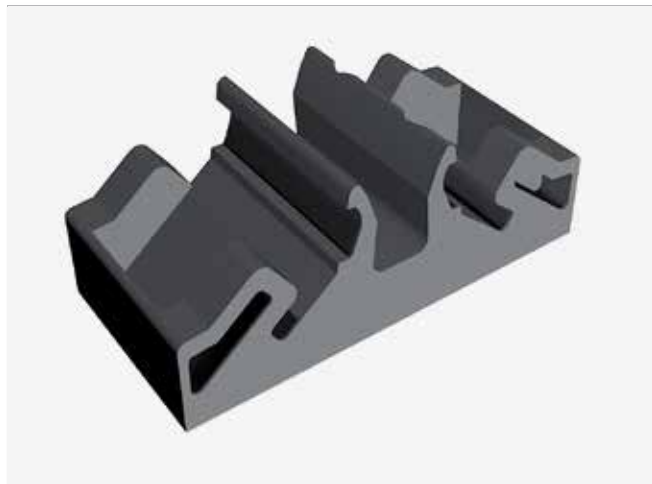


Stand on top of the profile to ensure the panels are properly connected.

SOLID CLIPS / SERIOUS QUALITY

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

We subjected Riverclack® panels to uniformly distributed load tests under laboratory conditions. 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. The 7kN/m² uplift load resistance achieved is largely due to the unique side lap detail which ensures that, the greater the load applied, the more tightly the panels “claw” into the clips.

THE DRAINAGE CHANNEL / A RUNAWAY SUCCESS

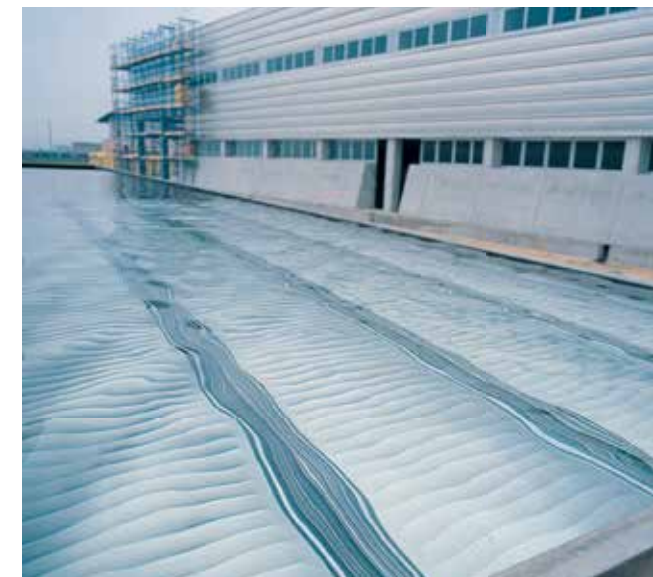
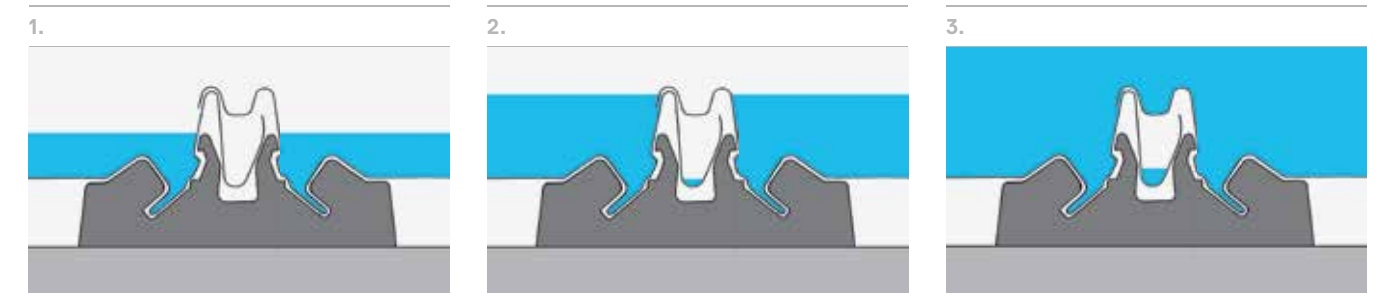
The drainage channel captures any water that might penetrate the side lap and carries it away to the gutter, eliminating the risk of leaks into the building.

The drainage channel is one of the key features that really sets Riverclack® apart from the competition.

In storm conditions, water can slow or come to a standstill as it runs off the roof. With nowhere to go, the water level then rises and the profile is quickly submerged.

With Riverclack®, this is never a problem.

THE DRAINAGE CHANNEL



A WATERTIGHT CASE

In a hugely demanding test for any product, a pool was built using Riverclack® 550 panels, with no additional side lap sealant, as the base. The pool was then filled with water, submerging the Riverclack® system, and left for 45 days during which time not a single drop of water leaked through. In fact, when the system was dismantled, even the integral drainage channel contained just a few drops.



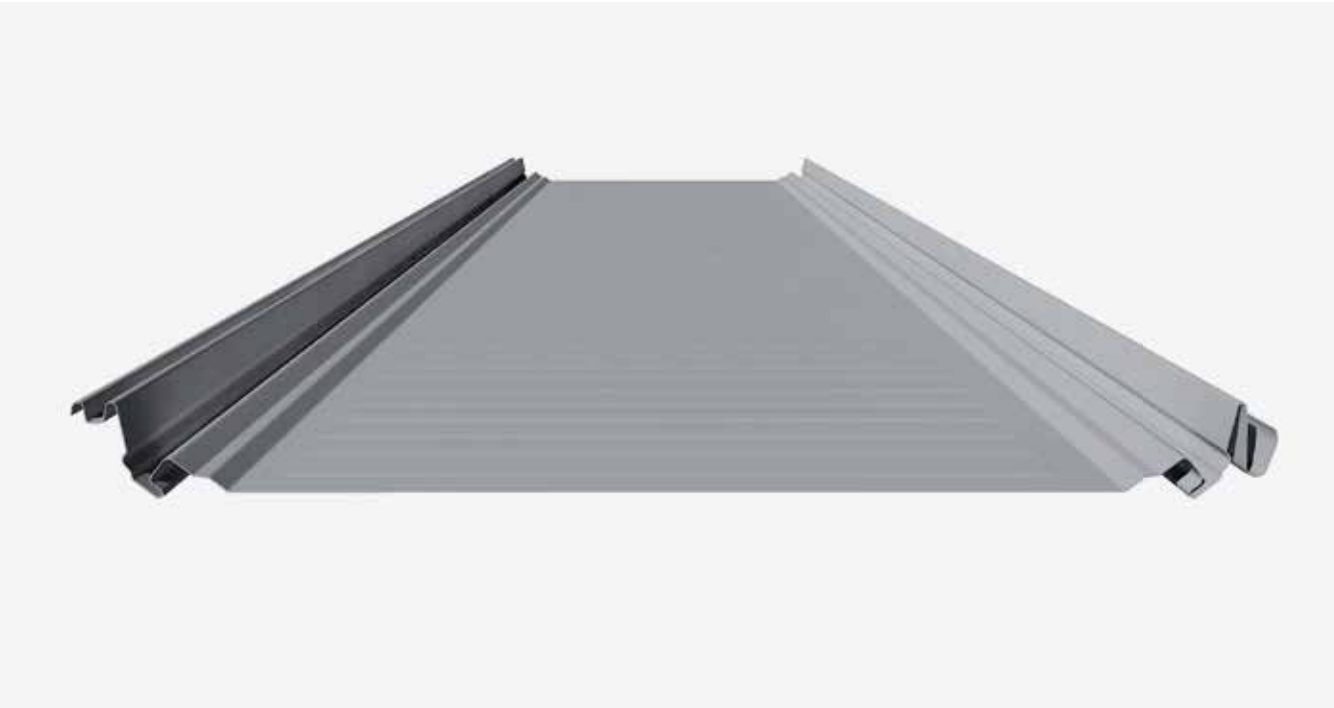
PANEL WIDTH OPTIONS / STANDARD OR CUSTOMIZED

Riverclack® panels come in three standard width options, but we also have the technology and skills to customize materials to any width you need, both in our factory and on-site, to fit your architectural, functional and/or budgetary requirements.

PANEL WIDTHS

		SITE ROLL FORMING	MACHINE CURVING	DRAINAGE CHANNEL	MINIMUM ROOF PICH
RIVERCLACK 500		YES	YES	YES	0,5%
RIVERCLACK 550		YES	YES	YES	0,5%
RIVERCLACK GRIP 600		YES	NO	NO	5%

CUSTOM WIDTHS ARE AVAILABLE WITH OR WITHOUT THE DRAINAGE CHANNEL, MAXIMIZING YOUR FREEDOM TO DESIGN.



CURVED AND TAPERED PANELS /THE VERSATILITY YOU NEED

Straight Riverclack® panels are self-bending down to a radius of 25m, adapting perfectly to the shape of your roof surface without any additional operations or costs. A machine smooth-curving process is available to accommodate smaller radiuses. Depending on the material used (aluminum, copper, titanium zinc or stainless steel) and the thickness, radiuses of 3m in a convex configuration and 8m in a concave configuration are achievable.

CONFIGURATIONS

STRAIGHT



CONVEX



CONCAVE



TAPERED



CONVEX TAPERED



CONCAVE TAPERED



You can even apply a combination of convex and concave shapes and multiple radiuses to a single panel and the crimp curving process allows for radiuses as low as 1.5m in a convex shape. Thanks to the new generation of rolling mills that can be equipped with a tapering kit, Riverclack® also offers the option of continuous length tapered and custom width panels, even on-site. The minimum width at the panel's end is 170mm, the maximum 540mm. Tapered panels are just as self-bending as straight ones and can also be machine curved.

ON-SITE ROLL FORMING AND CURVING

Where panels are too long to be produced in our factory and then transported to the construction site, we provide on-site forming and curving. On-site forming and curving can also be your smartest option when the size of your project would otherwise require numerous deliveries to site, increasing transport costs and your project's CO₂ emissions.

Producing panels on-site doesn't mean compromising on quality either, because whatever the location, we produce the Riverclack® secret-fix roofing system to the same high standards. In the factory or on-site, Riverclack® panels are rolled on fully engineered factory specification production units equipped with test rigs and the system's performance is checked at the start of each production batch. Riverclack® offers a variety of site production methods, from ground level rolling to ramp rolling. The latest Riverclack® forming units can also be set for eaves-level rolling, which reduces the number of steps in the handling process.

SITE ROLLS

SITE FORMING



SITE CURVING



SITE OPERATIONS



SITE PROFILING MACHINE



AHEAD OF THE CURVE WITH PHOTOVOLTAIC ROOFING

4.5 MWp of Solar Elios cover 100,000 m² of roof at the Rimini Convention Center, 1.5 MWp of Solar Deck have transformed 180,000 m² of roof at the Roma Fair into a power plant and there are countless 3 kWp installations on the rooftops of offices and domestic homes across Europe.

Riverclack® Solar Roofing Solutions already provide over 40 MWp of roof-mounted solar energy, helping individuals and organizations across Europe save costs, as well as our planet.



A TOTAL APPROACH

The unique design of our panels make Riverclack® Solar Roofing Solutions quite unlike any others on the market, allowing for an entirely different approach to your project. Riverclack® is quicker, tougher, more reliable... smarter. Riverclack® PV mounting solutions have the same winning combination of high tensile aluminum alloys, snap-in locking systems and smart drainage systems as all standard Riverclack® roof panels, delivering the most reliable, quick-to-install PV roof ever.

THE 4 SNAP-IN SYSTEMS

SOLAR ELIOS / INTEGRATION



SOLAR DECK / VERSATILITY



4 SNAP-IN MOUNTING SYSTEMS / 4 STEPS AHEAD OF THE COMPETITION.

SOLAR ELIOS
SOLAR DECK
SOLAR FRAME
SOLAR CLIMPO

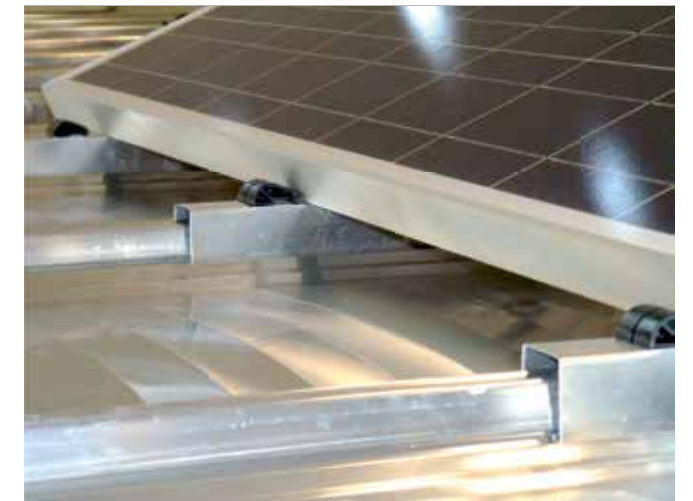
Our four mounting systems have “snap-in” mechanisms for quick, solid, perforation-free installation, so you can rest assured that your roof’s integrity of will never be compromised.

Investing in solar PV energy is a smart choice, both financially and environmentally. With the long-life guaranteed features of Riverclack® roofing systems, you have a complete and reliable solution that will reduce your building’s energy costs for years to come.

SOLAR FRAME / TRADITION ENHANCED



SOLAR CLIMPO / FREEDOM

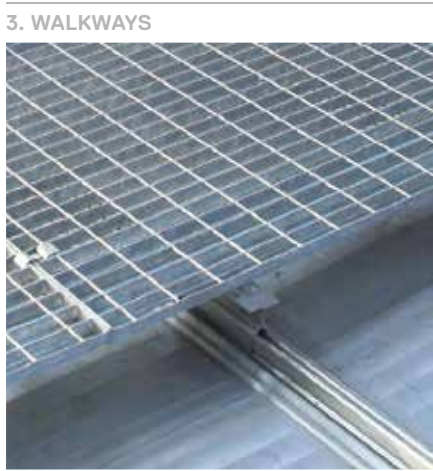
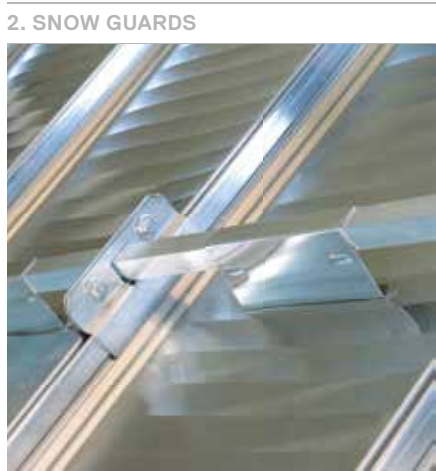
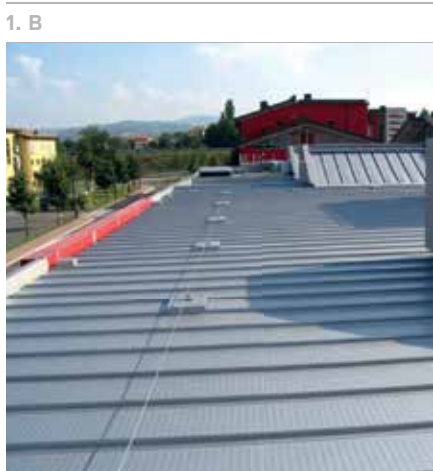
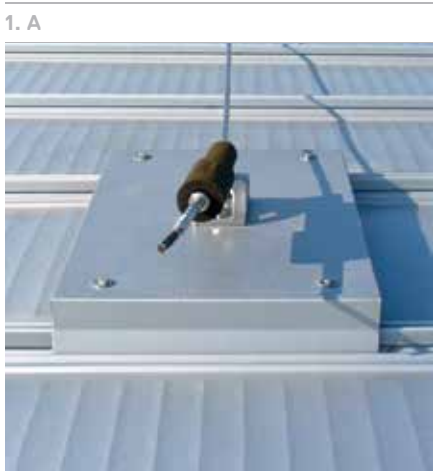


COMPONENTS / ACCESSORIES

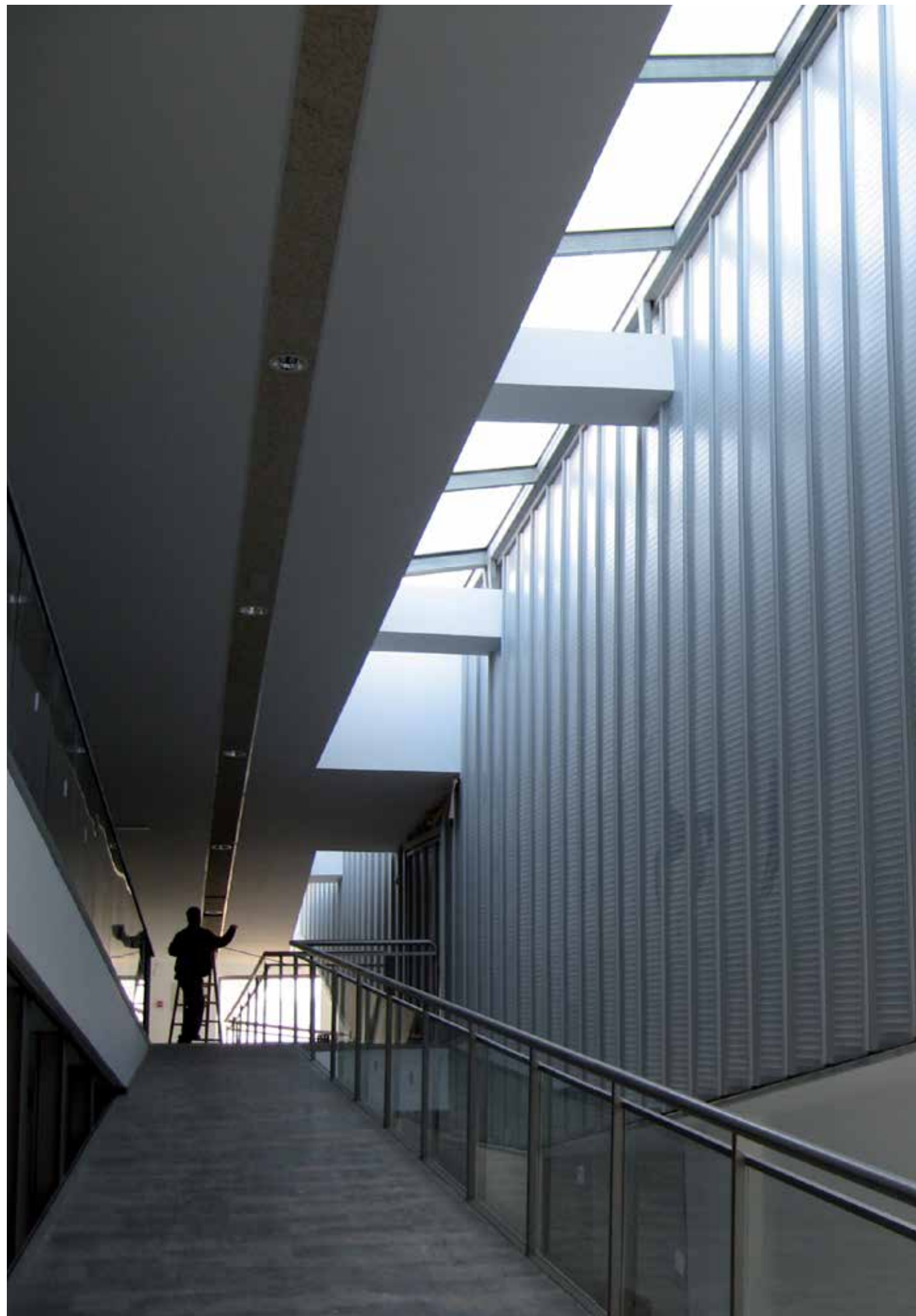
Fall-arrest devices, snow guards and walkways, as well as the more traditional roofing components, together mean that Riverclack® gives you a fully integrated, fully serviceable roof system.

From the single fixing screw to the fall-arrest device, every element that we deliver or authorize is tested for its compatibility with the Riverclack® system and verified as complying with our warranty conditions.

FULLY APPROVED / TESTED ACCESSORIES

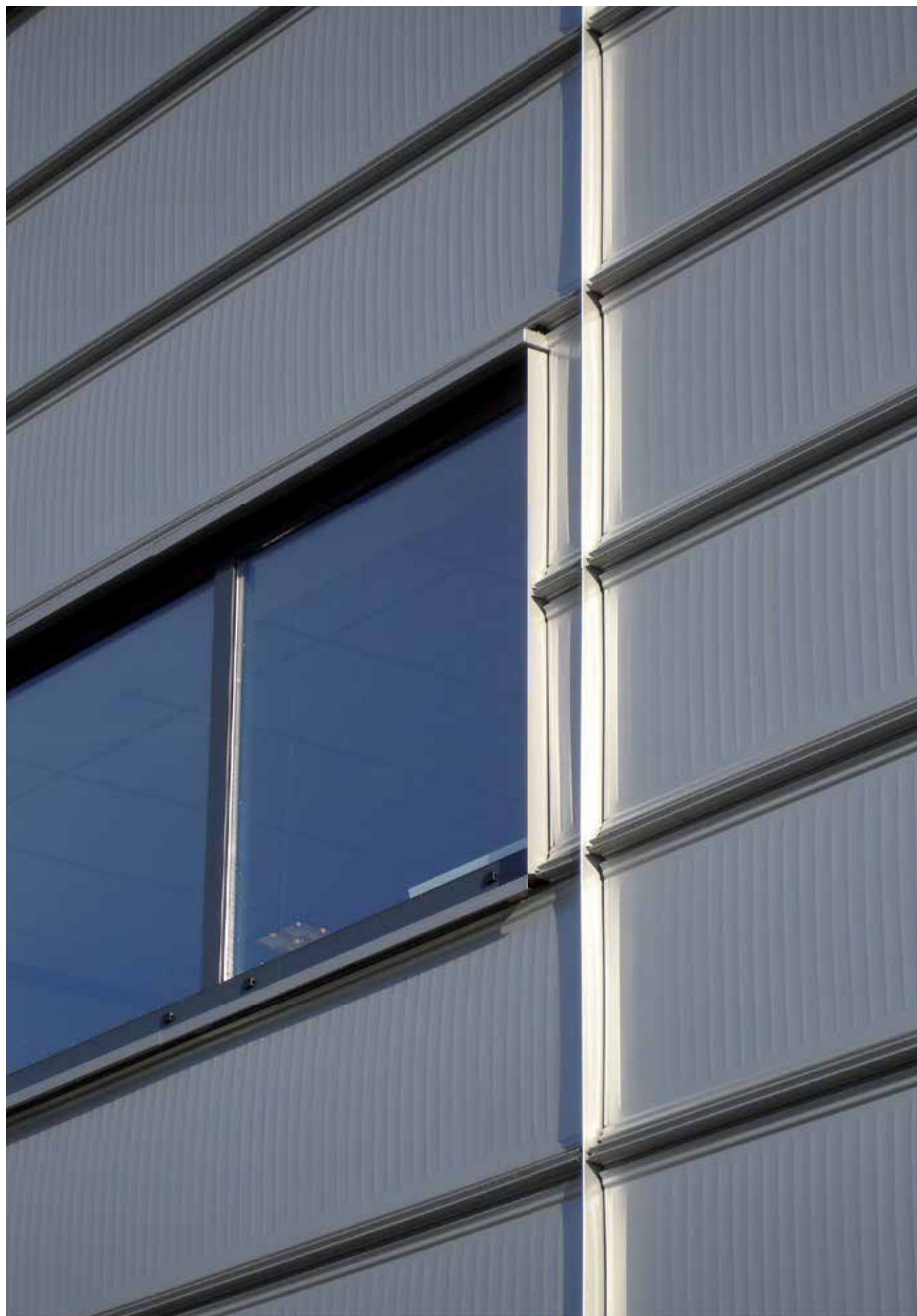


- A RANGE OF FIXING CLIPS FOR DIFFERENT APPLICATIONS / ROOF SHAPES
- FALL-ARREST SYSTEMS
- INTEGRATED ANTI-CONDENSATION LAYERS
- INTEGRATED ANTI-DRUMMING LAYERS
- SNOW GUARDS
- WALKWAYS
- PERFORATION-FREE MOUNTING CLAMPS
- PROFILE FILLERS, CLOSURES AND SHAPED FLASHINGS



DESIGNER SHADES / DURABLE MATERIALS

From the natural beauty of aluminum to the warmth of raw copper, the wide range of materials and coated surfaces in which Riverclack® is available should be a source of inspiration to any architect or designer.



A CHOICE OF SELECT METALS

In addition to the superior 5754 aluminum alloy – with its unrivaled corrosion resistance, mechanical strength and cost effectiveness – Riverclack® 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 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®.

ALLUMINIUM ALLOY 5754

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.

COPPER

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.

STAINLESS STEEL

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.

TITAN ZINC

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

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

STUCCO EMBOSSED ALUMINUM

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



ANODIZED ALUMINUM

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



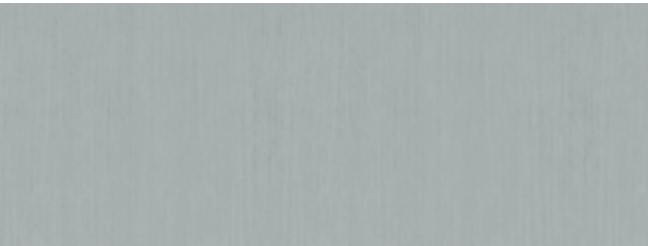
PRE-PATINATED COPPER

Copper is available at various stages of oxidation and patination.



PRE-OXIDIZED ZINC

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® 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



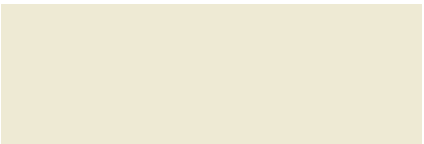
ANTHRACITE GREY RAL 7016



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.



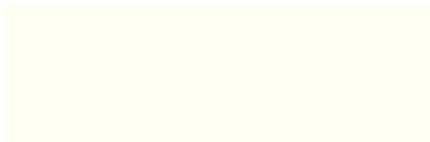
OXIDE RED RAL 3009



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

FEEL RANGE

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



COPPER PATINA LOOK I



COPPER PATINA LOOK II



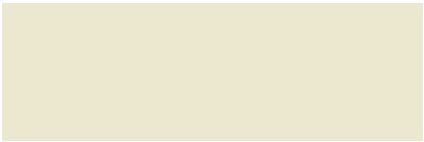
ZINC LOOK I



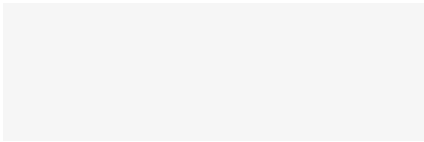
ZINC LOOK II

HIGH SRI COLORS:
FOR A COOLER ROOF

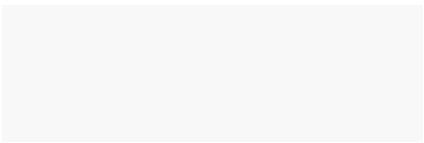
The SRI (Solar Reflectance Index) measures a material's ability to reflect heat. In warmer climates especially, SRI coatings help cool the roof and reduce the UHI (Urban Heat Island) effect. High-rating SRI colors can also contribute to LEED credits for your building. Though white or light colors remain the most reflective, we can achieve relatively high SRI values even in dark colors, by using special pigments.



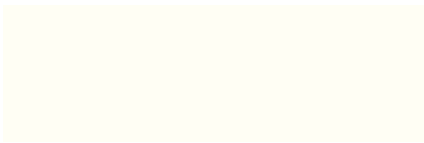
RAL 9001 PVDF



RAL 9010 PVDF/PE



RAL 9016 PVDF



NCS S 1200 Y50R

SEEING IS BELIEVING

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.

THE INFINITE VARIETY OF LIGHT

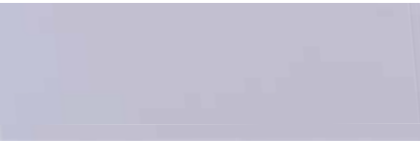
These pigments can reflect their own color or that of the base coat. This on-going reflection and refraction creates fascinating color variation that continuously changes depending on the viewing angle and light.



PYRITE GOLD SILVER



PYRITE GOLD RED



AMETHYST PURPLE GREY

THINK ZINC

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.

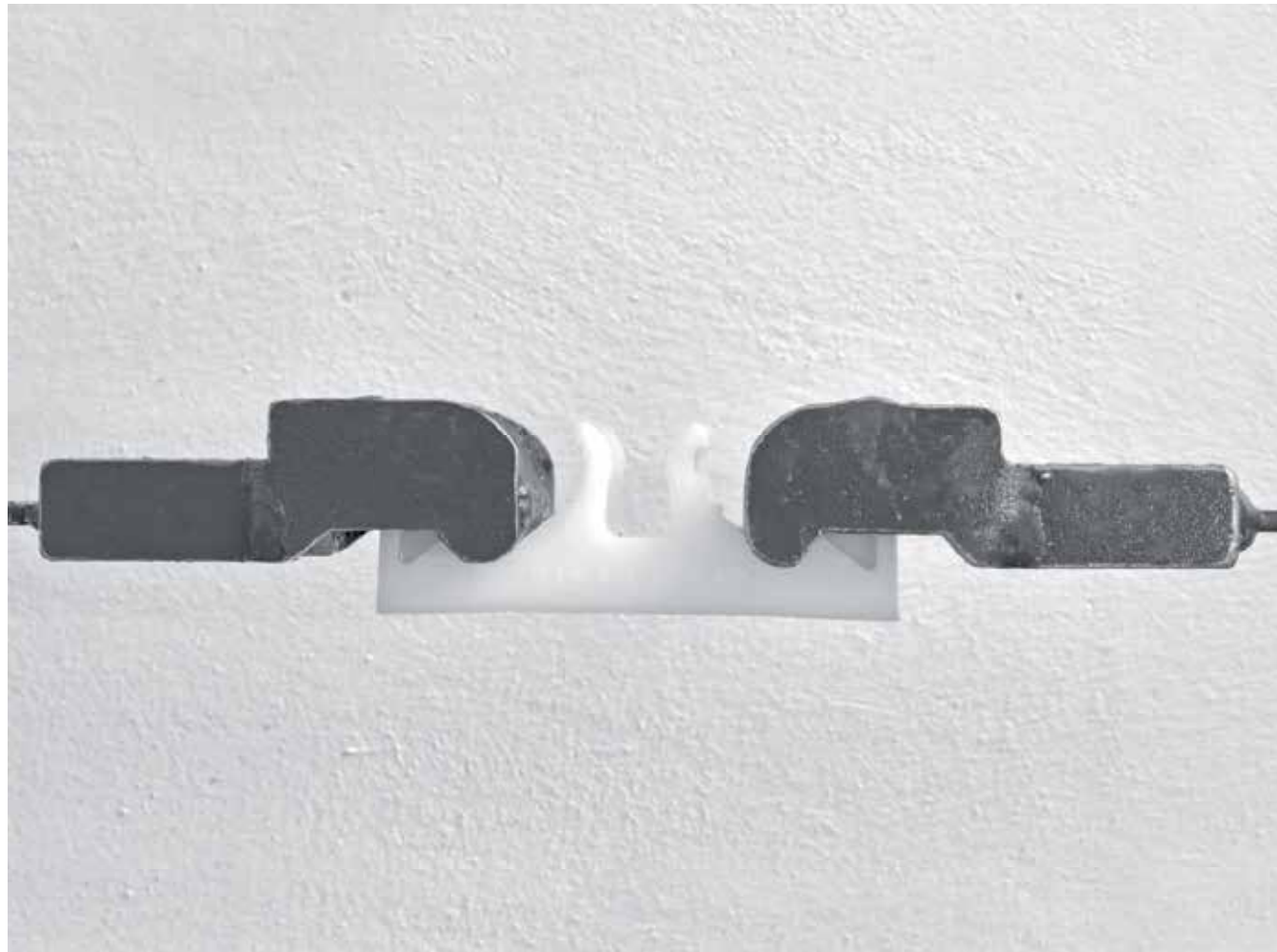


ZINC PRO NEWLY PAINTED



ZINC PRO WEATHERED

PERFORMANCE STANDARDS / TESTS / CERTIFICATIONS



The Riverclack® standing seam metal roof system has one of the industry's highest wind suction load resistances, unrivaled water tightness and a unique structural performance.

HIGH STANDARDS

The superior performance of Riverclack® systems has been tested according to the strictest international standards, including DIN, EN, UNI, IEC, ASTM, UL and FM, by independent credited laboratories.

PRIMARY BOARDS OF CERTIFICATION

Riverclack® roof systems have been certified by the world's most prestigious certification boards: DIBt, BBA, CSTB, TÜV and FM Approvals.

ISCOM AND SAFETY

ISCOM is committed to the highest standards for Health & Safety. The OHSAS 18001 certification, a globally recognized organizational H&S model, is testament to our desire to take care of our employees and the people they work alongside.

CLEAR INFORMATION

For details and a clear overview of all aspects of the Riverclack® system and performance, please refer to our System Guidelines brochure, or check the relevant board of certification. Appropriate information is also provided on all our CE markings.

IL LABORATORIO/ RIVERCLACK'S FULLY-EQUIPPED INTERNAL TEST FACILITY

At Riverclack®, we are committed to delivering a world class product to our customers each and every time, including customized solutions to even the most challenging of technical requests.

Back in 1995, our commitment to such high standards led us to create our own internal test facilities. The “Laboratorio”, as it is affectionately known, has test benches for wind uplift, water and air tightness and concentrated load pressure as well as a range of instruments for carrying out material checks and are periodically calibrated and maintained according to UNI EN ISO 9001:2000 standards.

The “Laboratorio” is also at the heart of our cutting-edge R&D department, providing quick and reliable feedback as we strive to perfect our latest innovations.



QUALIFIED TECHNICAL SUPPORT - FROM DESIGN TO INSTALLATION AND BEYOND

A WEALTH OF EXPERIENCE

Through our close collaboration with developers, manufacturers, suppliers and roofing contractors, we have built up unrivaled know-how and expertise in specialist roofing solutions. This knowledge, that we in turn share with architects, contractors, building owners and business partners, combined with our openness to new possibilities and willingness to always listen and learn from our customers, has been the key driver of Riverclack®’s ongoing success.

WE SHARE WITH YOU

Our engineers are always on hand to give you whatever support and assistance you need at any stage of the process, from design through site operations and construction, to after sales maintenance. To put it simply, we are as committed as you are to the successful outcome of your project.

PLANNING ASSISTANCE

ACAD PROJECT DETAILING

INSTALLATION TRAININGS

SITE SUPERVISION

AND EXPLOIT FOR YOU

We are constantly striving toward innovations and improvements. Backed by an R&D department unlike any other in the industry, and with the support of our unique testing facilities, we’re the perfect partner if you are looking for smart, truly custom made solutions to your most demanding challenges.

A GLOBAL PRODUCT

In over 30 countries across 5 continents, millions of square meters of Riverclack® roofing systems are protecting buildings from all that nature can throw at them. From the harsh Siberian winters to the unforgiving Saudi sun, Riverclack® confirms its reliability day in, day out.

Research, design, testing and production are all carried out at our headquarters in Verona, Italy. We also have transportable production units strategically located in Europe, Asia, Africa and the Americas, ensuring you always get the high quality, timely and cost effective service for which Riverclack® is renowned worldwide.

HURGHADA INTERNATIONAL AIRPORT / EGYPT





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