

Aluminium Decking System

Decking system for metal-frame balconies





Why this System?

BalcaSmart® Aluminium has been designed to fix directly to the balcony steels on metal-frame balconies, for fast and efficient install.

The range of smart system options available make it straightforward to create safe and secure decked balconies, however challenging the design and performance requirements are.

“Safe and secure decked balconies.”

- 30-year warranty, 60-year design life
- Achieves Euroclass A2-s1,d0 to EN 13501-1:2018
- Ideal for all steel, bolt-on and cantilever balconies
- Suited to large scale, high-rise remediation, new build, and refurbishment projects
- All boards available in standard range of six RAL colours (any RAL colour available on additional lead-time)
- Long-lasting, with excellent scratch and wear resistance
- Slip-resistant to BS 7976-2:2002



Out of the Box Compliance

Like you, we want to make our buildings and our lives safer. So we've made it easy for you to comply with current building and fire safety regulations. You choose the finish, we'll take care of the compliance. Simple, smart, non-combustible flooring systems for terraces and balconies

System Overview

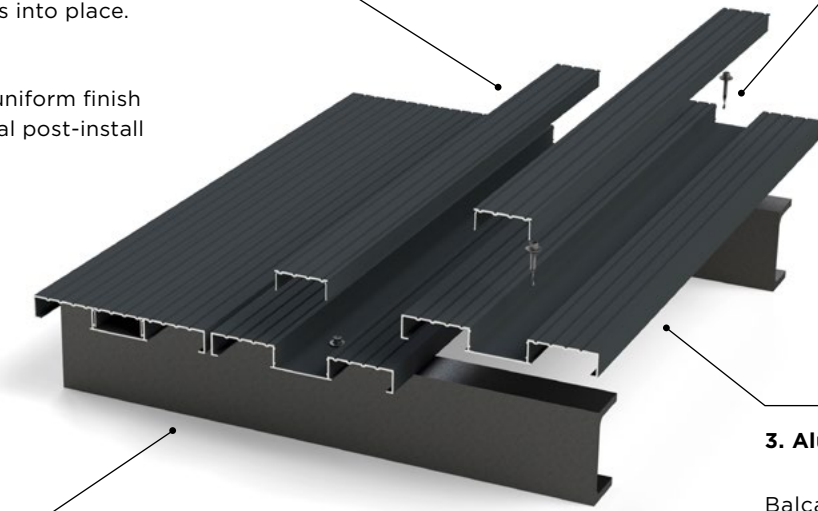
1. Clip-in Channel

After deck boards have been fixed onto steels, the clip-in channel simply and quickly clips into place.

- Hides fixings
- Provides a perfectly uniform finish
- Enables board removal post-install

2. Fixings

Boards are secured in place using the required size of stainless steel self-drill Tek screws, to suit the balcony steel thickness.



3. Aluminium Deck Board

BalcaSmart® Aluminium decking board options include:

- In-built positive drainage
- Low-height
- UltraGrip™ slip-resistant finish

Each offering that classic decking look, with optimal wear and slip resistance.

4. Building Structure

Balcony steels for which the system will fix directly on to.

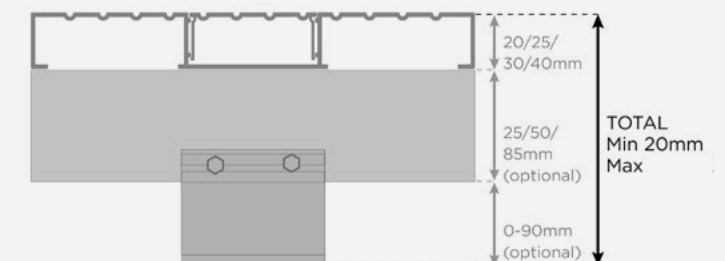
Technical Specification

Fire rating (to EN13501-1)	A2-s1,d0
Height range	20mm to 215mm
Loading/compression	Concentrated/point load: 2kN Uniformly distributed: >4.0kN/m ²
Warranty	30 years*
Design Life	60 years*

*Valid when used as part of a complete RYNO IGNO system

System Build Up

Smaller solutions are available contact us for more information



Finishes

Aluminium Range

Powder coated with a textured coating for high slip resistance available in a select range of standard colours.



Anthracite Grey: RAL 7016



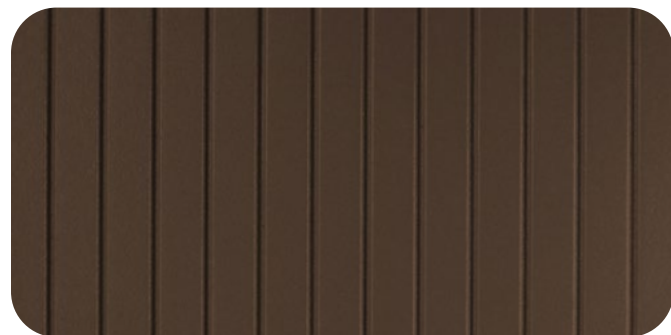
Dust Grey: RAL 7037



Grey Brown: RAL 8019



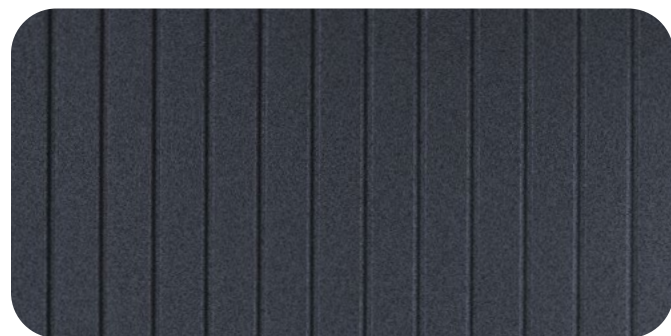
Quartz Grey: RAL 7039



Sepia Brown: RAL 8014



Window Grey: RAL 7040



Ultra Grip™: RAL 7016

Ultra Grip™

For enhanced slip resistance and surface durability, our UltraGrip™ finish can be used as part of the TerraSmart™ Aluminium system.



Options

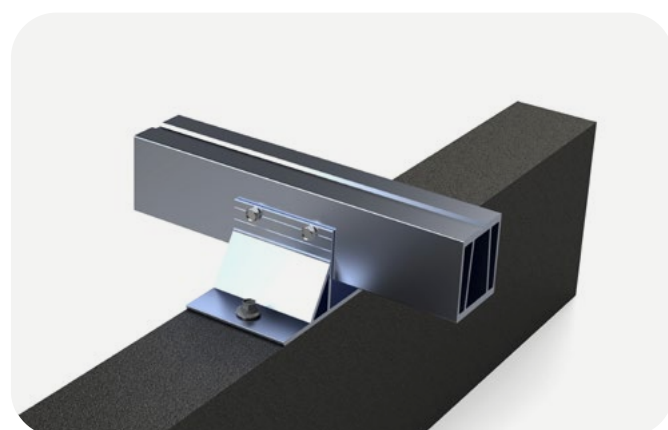
Low-height Board

The 'go-to' aluminium decking board for those projects with limited height build-up available. At a height of only 20mm, the low-height board is perfect for catering to low door thresholds, without compromising on strength.



Low-height Support Cleat

For use where very little height build-up is available. Joist cleats are height adjustable, catering for falls, or to meet door thresholds while contributing as little as 3mm to the total build-up. Manufactured from high-quality aluminium, with a wide base for spreading weight evenly.



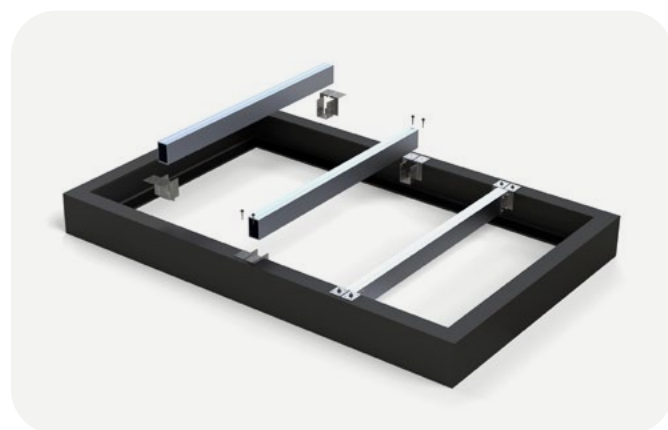
Non-combustible Isolating Metal Layer

The non-combustible isolating layer can be installed between balcony steels and aluminium sheets, to prevent galvanic corrosion from occurring. A simple solution, but perfectly effective: cut to size and attach in place.



Joist Hangers

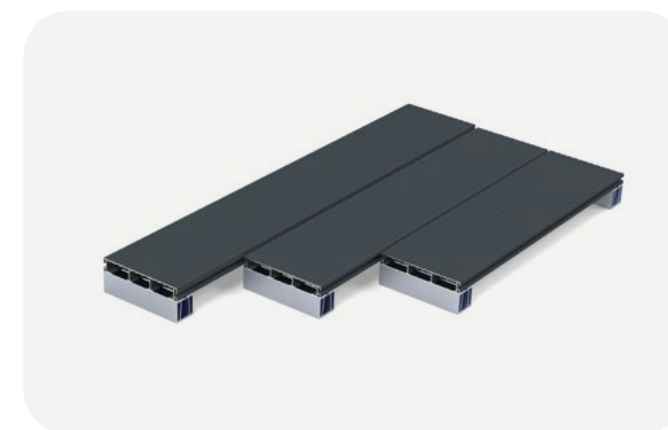
Ryno joist hangers have been designed for projects and scenarios where decking joists need to be hung within the existing balcony frame to provide additional support for the aluminium deck boards. This simple component provides strength and stability to the deck area, without adding height build up. Ideal for balcony remediation and refurbishment projects.



Options

Multiple Board Spans

Using material efficiently is one way we help to limit project costs. Our aluminium decking boards are available in a range of profiles, with span potential from 600mm up to 1500mm. By selecting the optimum board profile based on the spacing of existing steel bearers, we ensure maximum material efficiency and effectively minimise your costs.



Termination Profile

Termination profiles are a great addition where that extra finesse is required to the edges of the deck area. They are installed at board edges and ends, concealing any cut edges and offering a very neat finish with a small trim visible from the top of the decking.

Profiles are manufactured from aluminium and are powder coated to match the decking boards.



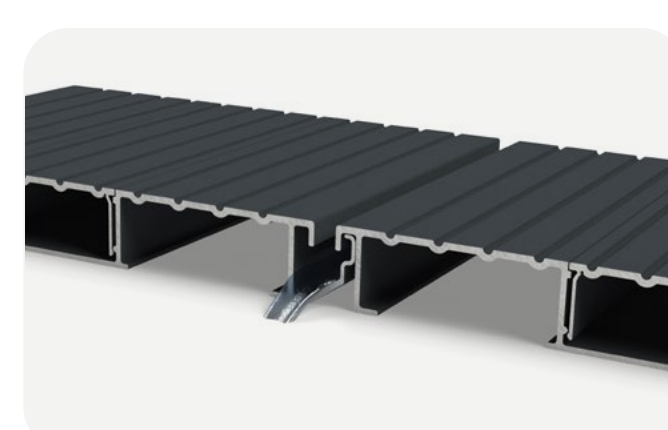
Furniture Anchor

The furniture anchor effectively secures outdoor furniture to prevent wind uplift and movement, as per guidance given in BS 8579:2020. It takes seconds to install, simply slotting in between the aluminium decking boards. It can be removed and replaced just as easily and works with all Ryno aluminium decking boards.



In-built Positive Drainage Solution

Drainage is a key consideration on bolt-on balconies. Our drainage boards have a drainage channel built into the board, enabling positive drainage whilst still maintaining rapid and simple install. Water can be guided to a gutter at the front or back of the balcony. Gutters are designed specific to each project, to suit the balcony dimensions.



Inspiration for your project



Avant-Garde Court Fletcher Crane

This luxury tower was completed in 2014 but with 25-storeys, it was a project that came with a myriad of challenges.

This large scale project featuring 224 bolt-on balconies involved the replacement of composite decking boards on timber joists with RYNO aluminium decking.

The aluminium decking system with boards in RAL 7039 (Quartz Grey) was elected for its low-height build-up, our decking system for balconies was selected, with joists attaching directly to the existing steel balcony frame.



We make it easy

Inspiration

Did you flick through this brochure finding yourself thinking about a specific project? Well, we can help you out! Give our specification team a no-obligation, quick call today to answer any burning questions you might have, and find out if this is the system for you.

Design

Our specification team are invested in your success first and foremost. If you tell them what you want, they will find a way to make it possible. When you keep up with them during a project, they focus on finding you bespoke solutions to keep costs down and keep the project safe.

Support

We don't just ship your system and then send you on your way! We want to make sure that you are supported wherever and whenever you might need it. We know that things can change at the flick of a switch, so whatever you need, our project delivery team are here to help.

Finish

Once all is said and done, drop in past The Studio in Clerkenwell for a friendly smile and a good cup of coffee, or get yourself booked in for a RIBA-certified CPD to keep up-to-date with the changing landscape of balconies and terrace compliance



View the rest of the **BalcaSmart®** range



BalcaSmart®

Aluminium Decking System

Decking system for
metal-frame balconies



BalcaSmart®

Rail Paving System

Premium, versatile paving system
for waterproofed substrates



Ryno Ltd
Castlepoint, Castle Way
Ellon, AB41 9RG

Phone: +44(0)203 967 3500
Email: Sales@rynogroup.co.uk