



ENGINEERED
FOR THE
OUTDOORS

ALUMINIUM DECKING BOARDS SPECIFICATION



OYSTER WHITE

GREY

RECYCLED MATERIALS
100% QUALITY INSPECTED

SPLINTER FREE
LOW MAINTENANCE

BRITISH DESIGN
FIRE-RESISTANT OPTIONS

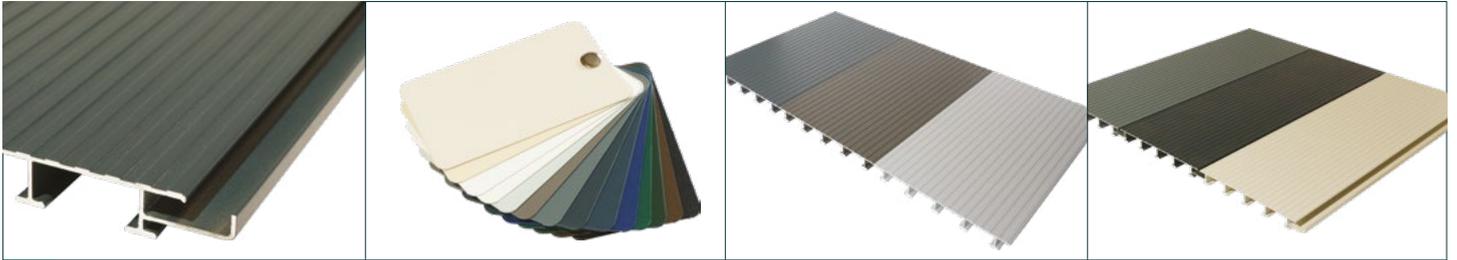
ANTI-SLIP

SUBFRAME • **DECKING** • FENCING
GATES • BALUSTRADE • FIRE RATED OPTIONS

Scan here to
find out more



ALUMINIUM DECKING SPECIFICATION



A

TOP VIEW

PRODUCT DIMENSIONS	STANDARD	INTEGRAL DRAINAGE CHANNEL
Board Width	185mm	182mm*
Board Depth	18mm	18mm
Board Length	3600mm	3600mm

Custom Lengths

Made to order and can be cut to any length up to 6 metres, tailored specifically for your project requirements

*3mm gap to next board. 198mm inclusive channel.

KEY FEATURES

Durable & Scratch Resistant	Designed for outdoor use with a robust finish with scratch resistant paint as standard
Finish	Durable, low-maintenance surface with excellent resistance to corrosion and weathering
Low Maintenance	Corrosion-resistant and easy to clean.
Non-Combustible	Compliant with fire safety regulations, ideal for high-rise and balcony applications
Lightweight & Strong	Easy to handle and install without compromising structural integrity

STANDARD RAL COLOURS

RAL 7012	Grey
RAL 7016	Anthracite
RAL 1012	Oyster White
Custom Colours	Available in any RAL colour on request for complete design flexibility

PERFORMANCE

Compliant with BS8579:2020 pedestrian surface standards
 Engineered to limit deflection to < 5mm under a 2.0kN load
 Lightweight yet structurally robust, suitable for elevated decking systems

OPTIONAL FEATURE: INTEGRATED DRAINAGE CHANNEL

Available with a built-in drainage channel for enhanced water management

Helps prevent pooling and improves safety in wet conditions

Ideal for balconies, terraces, and areas requiring efficient runoff

Needs to be installed at gradient to enable effective drainage

APPLICATIONS

Perfect for balconies, terraces, walkways, and retrofit projects in both residential and commercial settings.

FIRE CLASSIFICATION SUMMARY DOCUMENT

Overview

Product	Saige Aluminium Decking System (ADB-0500-18)
Description	Painted aluminium decking system for balconies and roof terraces
Thickness	18mm
Paint Layer Thickness	70µm
Surface Density: Aluminium	2.701 kg/m ²
Surface Density: Paint (various colours)	~0.105–0.113 kg/m ²

FIRE CLASSIFICATION

Overview

Standard	EN 13501-1:2018
Classification	A2fl-s1
A2fl	Limited combustibility for flooring applications
s1	Low smoke production

KEY RESULTS

Overview

PCS (Calorific Value) or full product	~0.73–0.76 MJ/kg
Critical Heat Flux (CHF):	≥11 kW/m ²
Smoke Production (VFI):	Average 10.4 %/min

ALUMINIUM DECKING SPECIFICATION

DEFLECTION STANDARD

Overview

BS8579:2020	Requires that pedestrian surfaces deflect no more than 5mm under a 2.0kN load.
Deflection Results	(at 2.0kN Load)
	Deflection varies based on beam size and spacing (centres). Example: The 30mm beam at 600mm centres deflects 0.57mm, well within limits.

RECOMMENDED MAXIMUM CENTRES DIRECTLY ONTO STEEL BEAMS

Overview

Decking Board	(185 x 18mm) directly on steel beams
Centres	Max 800mm centres
Deflection	3.72mm @ 2.0kN

ON 30MM ARC SLOT ALUMINIUM BEAM

Overview

Pedestal Centres	550mm, Beam centres: 800mm
Deflection	4.16mm @ 2.0kN

ON 25MM ALUMINIUM BEAM

Overview

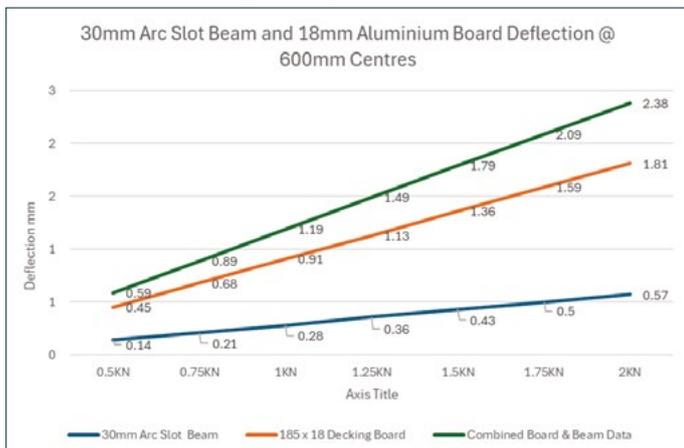
Pedestal Centres	700mm, Beam centres: 800mm
Deflection	4.79mm @ 2.0kN

ON 50MM ALUMINIUM BEAM

Overview

Pedestal Centres	650mm, Beam centres: 800mm
Deflection	4.0mm @ 2.0kN

If less deflection is required, tighter centres should be used



RECOMMENDED PEDESTAL AND BEAM CENTRES OF ALUMINIUM DECKING JUL 24

The table below shows the deflection at various centres when 2.0kN is applied

Centres	30mm Beam	25mm Beam	50mm Beam	Alum Decking Board 185 x 18
400	0.17	0.18	0.07	0.61
450	0.24	0.27	0.1	0.85
500	0.33	0.37	0.14	1.12
550	0.44	0.5	0.17	1.46
600	0.57	0.66	0.22	1.746
650	0.72	0.85	0.28	2.32
700	0.9	1.07	-	2.617
750	1.1	1.33	-	3.47
800	1.34	1.63	-	3.72
850	1.6	1.97	-	-
900	1.9	2.35	-	-
950	2.23	2.78	-	-
1000	2.6	3.8	-	-
1100	-	4.37	-	-

ANTI-SLIP TEST RESULTS

Overview

Test Method	Pendulum Slip Resistance Testing (BS-EN-16165 Annex C)
Slider Used	Slider 55
Test Conditions	Dry and Wet

KEY RESULTS. PENDULUM TEST VALUES (PTV)

Condition	Light Grey	Dark Grey	Black
Dry (as found)	86	86	86
Wet	54	54	54

HSE Recommended Minimum PTV (Wet):

36

Result

All colours exceed the minimum requirement, indicating Low Slip Potential.

SLIP RISK ASSESSMENT

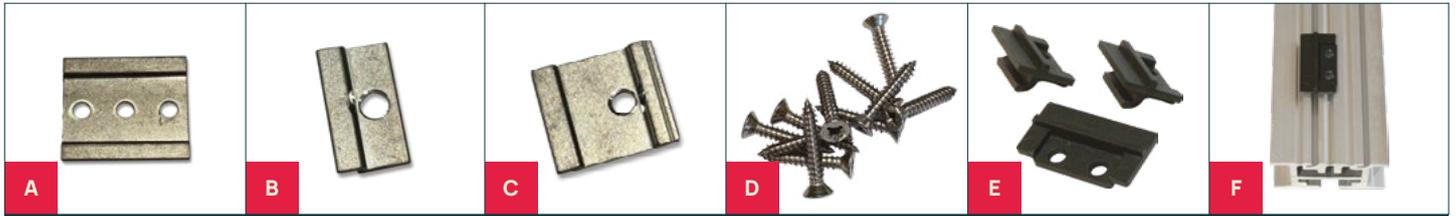
Slip Potential Low

Slip Probability 1 in 1,000,000 (meets HSE target for safe pedestrian surfaces)

CONCLUSION

Saige Aluminium Decking (all colours tested) demonstrates excellent anti-slip performance, significantly exceeding the HSE's minimum safety standards in both dry and wet conditions. This confirms the product is highly suitable for pedestrian use in environments where slip resistance is critical.

ALUMINIUM DECKING SPECIFICATION



FIXINGS AND ACCESSORIES

- A** Aluminium Decking Extension Clip (50's) used with 25, 30 and 50mm joists
- B** Aluminium Decking Starter Clip (50's) used with 25 and 50mm joists
- C** Aluminium Decking Clip (100's) used with 25 and 50mm joists
- D** M4 x 16mm CSK screws for the decking clips used for all decking fixings
- E** Arc-Slot Clip (100's) used for the Arc Slot 30mm Beam
- F** 30mm ARC SLOT Beam - 3.6m x 40mm x 30mm

TWINLEG PEDESTAL SUMMARY

Material:
304 Stainless Steel

Offering excellent corrosion resistance and durability for outdoor and industrial applications.

Base Rotation Tolerance

Each pedestal base can rotate $\pm 7^\circ$ to accommodate uneven surfaces, ensuring stable support across varied terrain.



VARIANT	HEIGHT RANGE (MM)
Twinleg Pedestal (S)	43 - 65
Twinleg Pedestal (M)	65 - 87
Twinleg Pedestal (L)	87 - 109

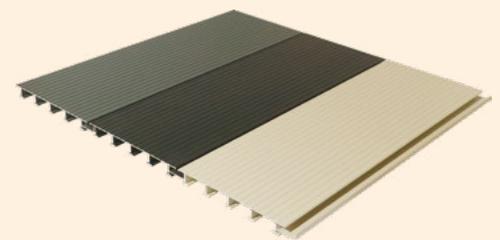
SAIGE FIRE-RESISTANT DECKING SOLUTIONS:

Saige offers a range of fire-resistant decking products suitable for various applications:

- Bfl-s1 Fire-Rated Composite Decking Boards
- A2-s1,d0 Aluminium Decking Boards
- A1-Rated Fibre Cement Decking Boards
- A1-Rated Porcelain Decking Boards

All products meet stringent fire safety standards and are ideal for both residential and commercial projects.

Please contact us if you would like further information.



GREY ANTHRACITE OYSTER WHITE

Ask for our FSC® certified products

