



ARCADIA MATCH[®]
GRATING SYSTEM



ARCADIA[®]
Ventilation and Sunscreen Specialists



MATCH® GRATING SYSTEM

ARCADIA®

Arcadia® is one of Australia's leading manufacturers and suppliers of natural ventilation, louvre and sun shading systems. Arcadia® products control the natural elements of the sun, wind and light to create energy effective and comfortable conditions in industrial and commercial buildings.

The successful integration of Arcadia® products by architects and designers is supported by the experienced management and engineering team at Arcadia.

If you would like to find out more about the range of products at Arcadia, please visit www.grouparcadia.com.au

Arcadia® maintains an ongoing research and testing program in the quest for product improvement and in consequence the information provided in this brochure may be subject to change without notice.



MATCH[®] GRATING SYSTEM

OVERVIEW

Arcadia Match[®] Grating System delivers optimal flexibility. The system can be incorporated for sun shading, privacy and the reduction of building's solar heat gain. The Arcadia Match[®] Grating System can also be incorporated as a maintenance catwalk. The Arcadia Match[®] Grating System provides superior impact resistance with clean, straight lines that compliment modern architecture.

IN THIS BROCHURE YOU WILL FIND

- A guide covering the various custom options available
- Ideas on how Match[®] can enhance a building
- Information on the energy efficiency of solar sun shading
- Profile options
- Span and engineering data
- Arcadia Match[®] Grating System design specification

We are available to answer your questions. Call our experts who will discuss your design requirements and will be more than happy to assist.

Match[®] Grating System
is adaptable in the
marketplace with a wide
variety of applications.

MATCH[®] SUN-SHADING

Arcadia Match[®] Grating Profiles can be customised to suit the design attributes and requirements of your project. The two grating design types are a flat bar or a louvre sun shading blade. Each of the grating designs can be strengthened for use as a trafficable platform. The trafficable grating platforms are identified as catwalks by the prefix SC or GC.



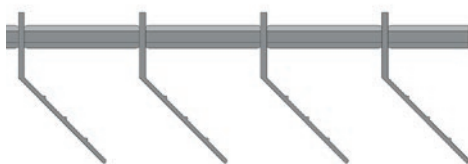
SUN-SHADING PANELS

Arcadia Match[®] Sun-Shading Grating Panels offer a range of design and fabrication options for optimal performance. The louvre blades are fixed at an appropriate length and pitch taking in to account various factors including the wind load and performance requirements.

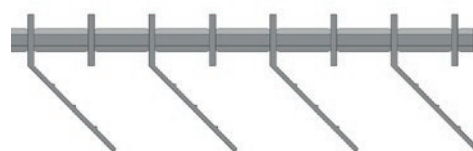
Controlled levels of ambient natural light will permeate through the open free area between the louvre sun shading blades. The shading provided by the grating reduces air-conditioned cooling and lighting costs. The treated material is corrosion resistant for longevity.

The Arcadia Match[®] Sun-Shading Grating Panels design can be strengthened for use as a trafficable platform with an additional flat grating bar. The trafficable Match[®] Sun-Shading Panel is known as a catwalk and identified as Arcadia Match[®] Sun-Shading Catwalk (SC).

Match[®] Sun-Shading | Non-Trafficable Panel (S)



Match[®] Sun-Shading | Trafficable Panels (SC)



CATWALK GRATING

The building façade can be safely maintained and the windows cleaned by the use of the secure accessible catwalk platform with safety line anchor points. The fabrication and fixing methods can be engineered for a cyclonic rated design solution.

GRATING PANELS

The Arcadia Match® Grating Panels can be integrated in to a building design to provide natural light and ventilation. The Arcadia Match® Grating Panel will also improve the appearance of an area and screen to provide a suitable privacy solution.

When the Arcadia Match® Grating Panels are incorporated in to a building car park, plant room, gate, ceiling, wall/fencing or controlled access area the natural ventilation and light provided reduces the need for expensive continual artificial lighting and cooling.

Consideration should be given to the flat bar spacing or free area, taking in to account the performance and security requirements. The Match® Grating Panels are suitable to withstand the buildings environmental conditions.

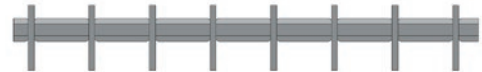
Arcadia Grating Panels can be engineered and fabricated for use as a trafficable platform identified as a Grating Catwalk or (GC).



Match® Grating | Non-Trafficable Panel (G)



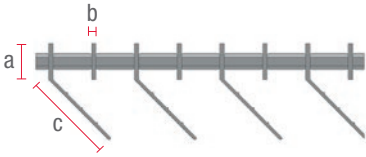
Match® Sun-Shading | Trafficable Panel (GC)








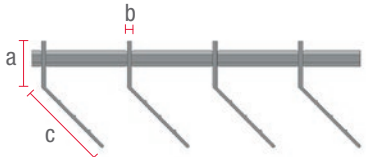
MATCH® TRAFFICABLE TECHNICAL DATA


MATCH®		SUN – SHADING TRAFFICABLE SC				
SUN-SHADING + CATWALK PROFILE	PROFILE CODE	SIZE mm			SPAN DATA	
		a	b	c	KG/m ²	Span
	Match® SC 203 – 60	20	3.00	60	12.00	1.90
	Match® SC 323 – 60	32	3.00	60	16.00	2.30
	Match® SC 403 – 60	40	3.00	60	18.00	2.70

MATCH®		GRATING TRAFFICABLE GC			
GRATING + CATWALK PROFILE	PROFILE CODE	SIZE mm		SPAN DATA	
		a	b	KG/m ²	Span
	Match® GC 253	25	3.00	9.00	1.00
	Match® GC 323	32	3.00	11.00	1.25
	Match® GC 403	40	3.00	13.00	1.70
	Match® GC 503	50	3.00	16.00	2.10
	Match® GC 603	60	3.00	19.00	2.50
	Match® GC 753	75	3.00	23.00	3.10

The spans listed above relate to Match® Trafficable (SC & GC) are based on a typical service live load of 2.5 KPa and should be used for an initial assessment only. Additional wind, span and loading data can be sourced by directly contacting Arcadia's Technical Support team to discuss your projects specific requirements.

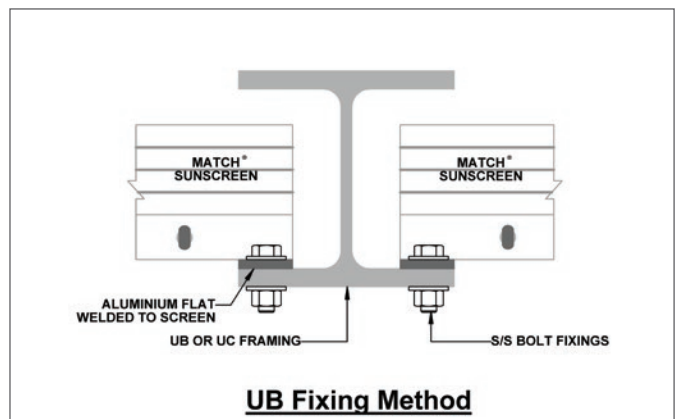
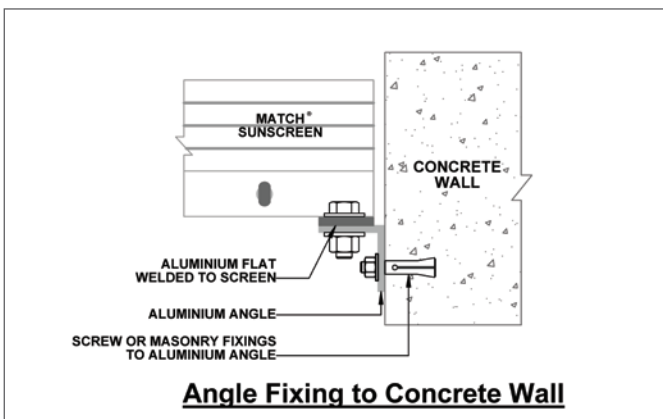
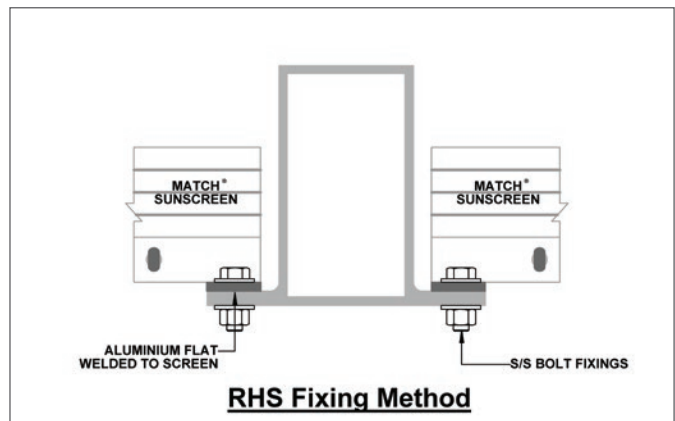
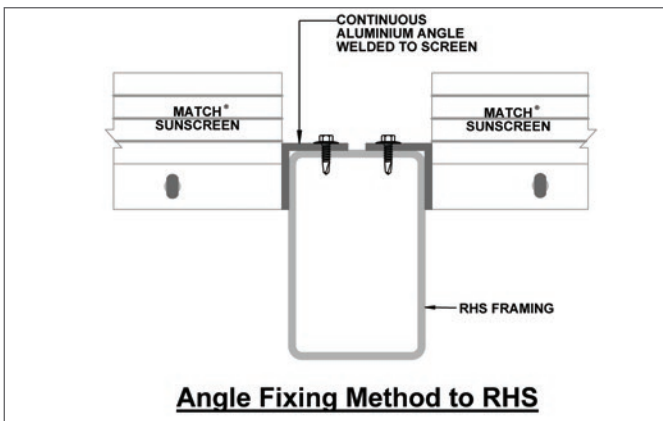
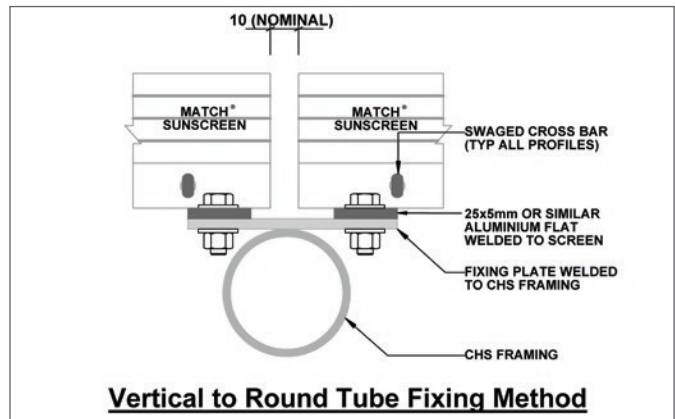
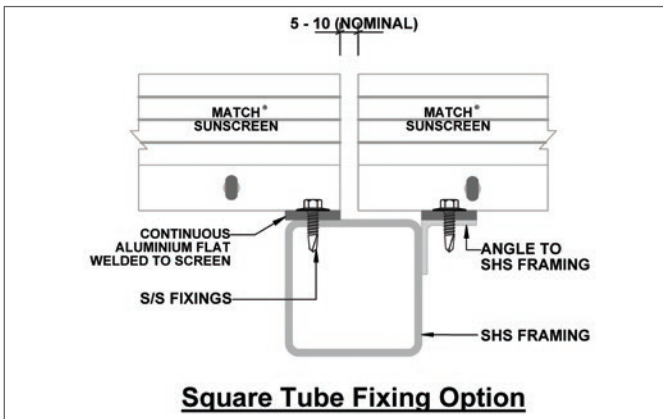
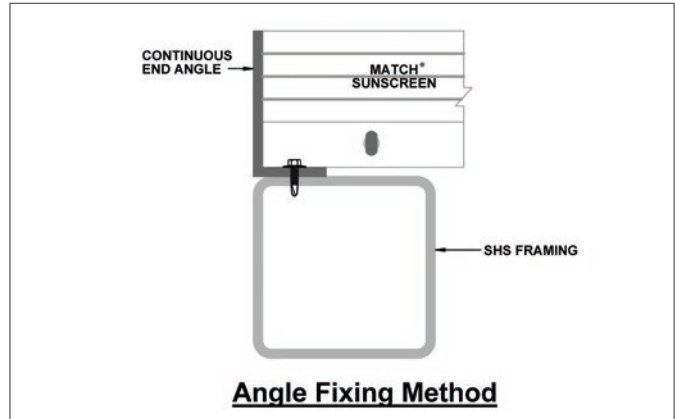
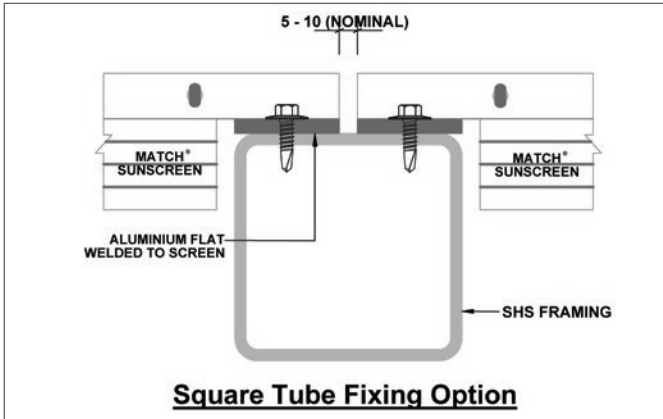
MATCH® NON-TRAFFICABLE TECHNICAL DATA

MATCH®		SUN-SHADING NON-TRAFFICABLE S				
SUN-SHADING PROFILE	PROFILE CODE	SIZE mm			SPAN DATA	
		a	b	c	KG/m ²	Span
	Match® S 203-60	20	3.00	60	9.00	2.20
	Match® S 323-60	32	3.00	60	12.00	2.60
	Match® S 403-60	40	3.00	60	14.00	3.00

MATCH®		GRATING NON-TRAFFICABLE G			
GRATING PROFILE	PROFILE CODE	SIZE mm		SPAN DATA	
		a	b	KG/m ²	Span
	Match® G 253	25	3.00	6.00	1.15
	Match® G 323	32	3.00	7.00	1.50
	Match® G 403	40	3.00	8.00	1.90
	Match® G 503	50	3.00	9.00	2.30
	Match® G 603	60	3.00	11.00	2.80
	Match® G 753	75	3.00	13.00	3.50

The spans listed above relate to Match® Non-Trafficable (S & G) are based on a typical ultimate wind load of 1.7 KPa and should be used for an initial assessment only. Additional wind, span and loading data can be sourced by directly contacting Arcadia's Technical Support team to discuss your projects specific requirements.

MATCH[®] FIXING PROFILES









MATCH® | GRATING SPECIFICATION

MATCH® SUN SCREEN AND GRATING

Sun Screens and Grating shall be Arcadia Match® Series, designed to provide screening and privacy and reduce solar heat gain, manufactured from extruded aluminium base material with all tolerances, and fastenings as standard with the manufacturer and finished using (select from **A** below) with the specified colour and warranty system.

Arcadia Match® screens shall be (select from **B** below) type with (select from **C** below), profile incorporating louvre bars and flat bars swaged together to the manufactures specification.

MATCH® APPEARANCE

Where multiple panel widths are required, cross bars are to extend to provide a continuous panel appearance.

INSTALLATION AND MOUNTING

Installation and mounting details will be designed to satisfy wind actions for Region (select from **D** below) and Terrain Category (select from **E** below) in accordance with AS 1170.2 structural design actions to suit Arcadia proprietary systems and manufacturer's recommendations.

A. MATCH® FINISH

- Powdercoat range
- Anodising range
- Specialised finishes
(Available upon request)

B. GRATING SELECTION

- Sun Shading (S)
- Sun Shading Catwalk (SC)
- Grating (G)
- Grating Catwalk (GC)

C. MATCH® PROFILE

- S 203-60
- S 323-60
- S 403-60
- SC 203-60
- SC 323-60
- SC 403-60

- G 253
- G 323
- G 403
- G 503
- G 603
- G 753
- GC 253
- GC 323
- GC 403
- GC 503
- GC 603
- GC 753

D. REGION

- Region A
- Region B
- Region C
- Region D

E. TERRAIN CATEGORY

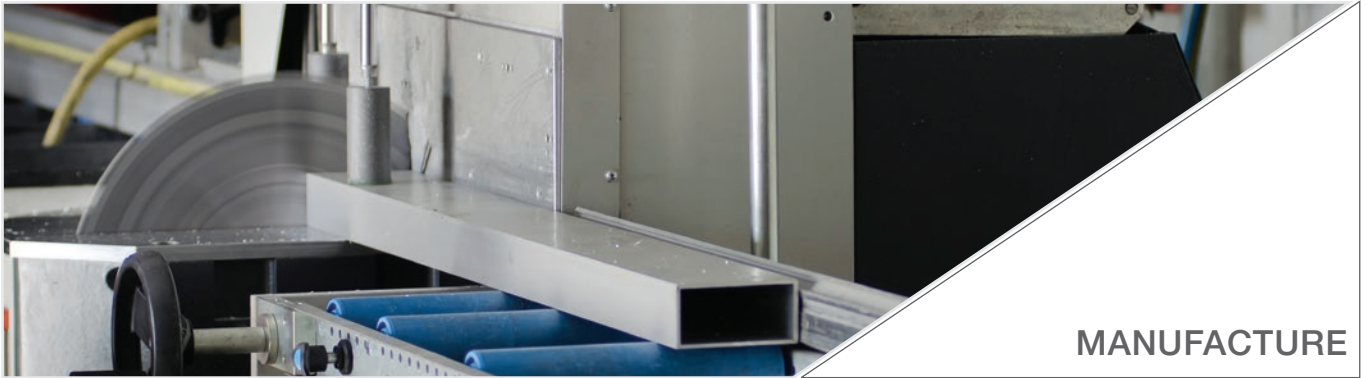
- 1
- 2
- 2.5
- 3
- 4

* Grating type outlined On Pg 4-5 Match Grating Design

ARCADIA IS A COMPANY THAT OFFERS A PROFESSIONAL TEAM WITH DIVERSE EXPERTISE.



DESIGN



MANUFACTURE



PROJECT MANAGEMENT



SERVICING MAINTENANCE

PROVIDING A FULL SPECTRUM OF SERVICES FROM CONCEPT TO COMPLETION FOR EVERY ASPECT OF YOUR PROJECT.

COMPANY NAME

Arcadia Global Pty. Ltd.

ABN No 62 008 668 291

FOUNDED

1927

EMAIL

admin@grouparcadia.com.au

WEBSITE

WWW.GROUPARCADIA.COM.AU



SYDNEY - MELBOURNE - BRISBANE - ADELAIDE - PERTH - DARWIN

PHONE 1300 458 458

EMAIL sales@grouparcadia.com.au

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