

ALSPEC ENDURAL® BALUSTRADE SYSTEM







ENDURAL BALUSTRADE SYSTEM

Unhindered Visual Freedom

The EndurAl[™] Balustrade System from Alspec has been developed to provide Architects and Builders an engineered and tested balustrade solution with Australia's unique architecture and wind classifications in mind. EndurAl[™] is a complete balustrade solution, suitable for use in a wide range of building applications for both residential and commercial environments which require engineered solutions up to and including the most stringent C5 overcrowding requirements.

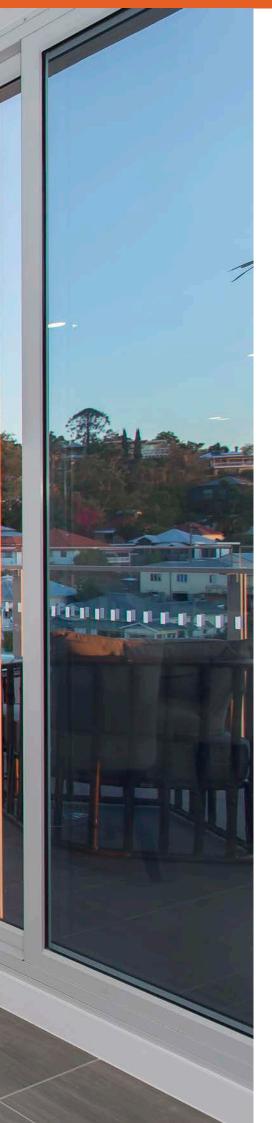


Furthermore, EndurAl[™] is a high end, comprehensive, easy to specify and easy to install balustrade solution that offers class leading strength whilst enhancing the surrounding visual outlook.

Key Features:

- Tested to exceed the requirements of AS1170.1 & AS1657
- Higher strength for increased spans
- Core drilled or welded post options
- Captive glazing pockets can accomodate up to 15mm glass
- Suitable for timber deck installtion
- Wide range of top rails and accessories





ALSPEC ENDURAL BALUSTRADE SYSTEM

Engineered to Perform

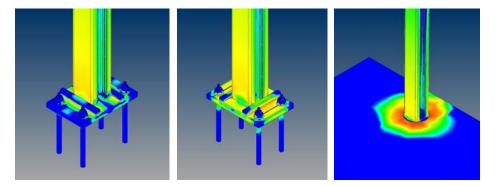
After significant research and testing to exceed AS1657, Alspec is pleased to release the EndurAl[™] Balustrade System. EndurAl[™] is a suite of specifically engineered extrusions that provides a premium solution for a wide range of balustrade applications for residential (C3) and commercial (C1) applications. The EndurAl[™] System also delivers a core-drilled solution for overcrowding (C5) applications.

By utilising a 55mm Structural Glazing Post, the EndurAl[™] System has enabled Alspec to offer a solution that:

- Is significantly stronger than 50mm glazing posts
- Has a wide range of glazing options (up to 15mm Glass)
- Can be mounted using welded post plates (base and side mounted)
- Has the ability to reach up to 1200mm high, and enables post centres up to 1800mm
- Meets architectural design requirements

The EndurAl[™] Balustrade System has been built on the back of Alspec's sophisticated architectural systems experience. As a result, the Alspec EndurAl[™] is an innovative and cost effective balustrade system that can be easily adapted to provide a seamless solution to the evolving trend of multi-use commercial / residential developments.

Testing and Compliance



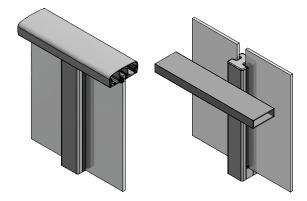
Tested to exceed Australian Standard requirements the EndurAl[™] balustrade system offers a range of improved spacing and height solutions across multiple installation methods. Core Drilled, top and side mount base plate and timber deck scenarios have been extensively tested by an independent NATA approved facility.

VERSATILE DESIGN

Multiple Glazing Options

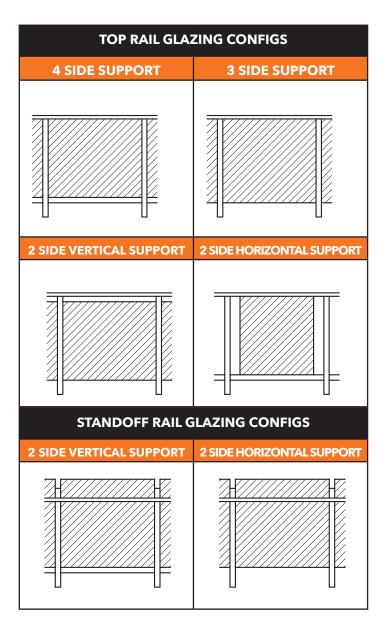
The EndurAl[™] system can be used in multiple glazing configurations to suit various architectural requirements.

Available to you are multiple glazing options ranging from 2 side, 3 side and 4 side support configurations with either a top mounted or standoff handrail option to suit any aesthetic requirement.

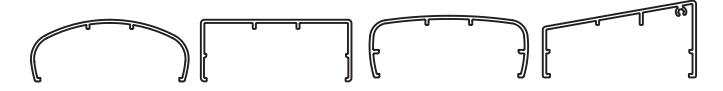


Stronger Posts and Thicker Glass Options

By incorporating a wider glazing pocket, Endural can satisfy the glazing requirements of AS1288-2006.



Multiple Handrail Options



With the EndurAl[™] Balustrade System, you have access to a range of modular slimline, rectangular & circular handle profile designs to suit both top rail and standoff rail configurations.

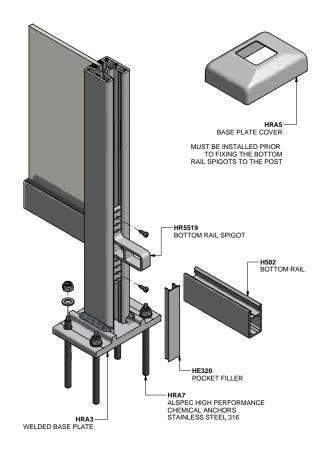




SIMPLE INSTALLATION

Simpler. Faster. Safer.

Safety, security, protection and style without compromising your views and enjoyment, the EndurAl™ Balustrade design has been developed to minimise both fabrication and installation time. By incorporating a deep captive glazing pocket, the EndurAl™ Balustrade can be installed faster and safer than other balustrade glazing methods. Pre-cut rail spigots are easily positioned for on site fixing of horizontal glazing rails.



Colour Range and Finish Options

Alspec has four strategically positioned advanced powder coat lines throughout Australia. These lines enable Alspec to offer over 100 colours . These powder coat options help position the EndurAI™ Balustrade System as a perfect solution for your next project.

Mounting Solutions

The EndurAl[™] Balustrade System can be tailored to suit your exact requirements, with multiple mounting solutions including core drilled, spigot mounted, face fixed, or utilising semi frameless fixing posts.



EndurAl[™] Accessories

The EndurAl[™] Balustrade System comes with a comprehensive range of accessories which includes items such as end caps, stand off brackets, specifically designed glass blocks, cover plates and fixing hardware.

Technical Support

For further information or to get a copy of the EndurAl™ Technical Manual, please contact your nearest Alspec branch or Area Manager.





HOUSING: REGIONS A & B

Residential balconies, landings, roof edges.

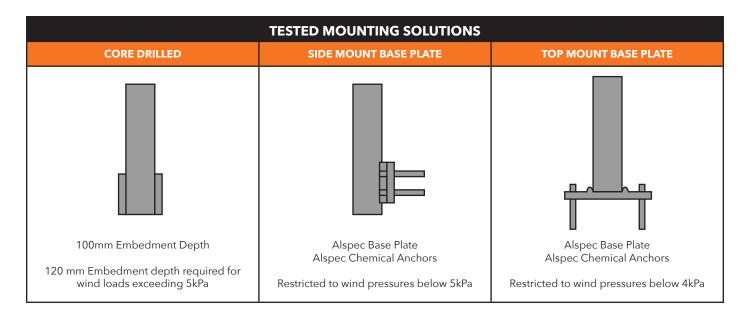
رکستی ک
r-Jl-r
Err 3

HR500 55mm 2 WAY POST

Alloy: 6106 T6

Ultimate Limit State: 210Mpa Minimum Live Load: 750 N/m

POST HEIGHT	MOUNTING OPTION				ULTIMATE W		URE RATING	i		
	CORE 120	N6	N5	N5	N5	N5	N4	N4	N4	N4
1200	CORE 100	N6	N5	N5	N5	N5	N4	N4	N4	N4
	SIDE PLATE	N4	N4	N4	N4	N4	N3	N3	N3	N3
	BASE PLATE	N4	N4	N4	N4	N4	N3	N3	N3	N3
	CORE 120	N6	N6	N5	N5	N5	N5	N4	N4	N4
1150	CORE 100	N6	N6	N5	N5	N5	N5	N4	N4	N4
	SIDE PLATE	N5	N4	N4	N4	N4	N4	N3	N3	N3
	BASE PLATE	N5	N4	N4	N4	N4	N4	N3	N3	N3
	CORE 120	N6	N6	N6	N5	N5	N5	N5	N4	N4
1100	CORE 100	N6	N6	N6	N5	N5	N5	N5	N4	N4
	SIDE PLATE	N5	N5	N4	N4	N4	N4	N4	N4	N3
	BASE PLATE	N5	N5	N4	N4	N4	N4	N4	N4	N3
	CORE 120	N6	N6	N6	N6	N6	N5	N5	N4	N4
1050	CORE 100	N6	N6	N6	N6	N6	N5	N5	N4	N4
	SIDE PLATE	N5	N5	N5	N4	N4	N4	N4	N4	N4
	BASE PLATE	N5	N5	N5	N4	N4	N4	N4	N4	N4
	CORE 120	N6	N6	N6	N6	N6	N6	N5	N4	N4
1000	CORE 100	N6	N6	N6	N6	N6	N6	N5	N4	N4
	SIDE PLATE	N6	N5	N5	N5	N4	N4	N4	N4	N4
	BASE PLATE	N6	N5	N5	N5	N4	N4	N4	N4	N4
POST	CENTRES	1000	1100	1200	1300	1400	1500	1600	1700	1800





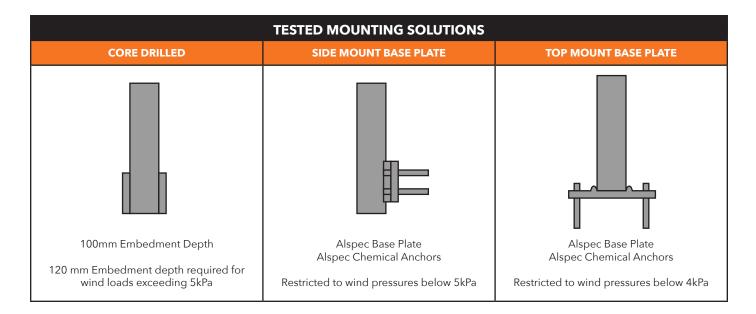
HOUSING: REGIONS C & D

Residential balconies, landings, roof edges.

HR500 55mm 2 WAY POST

Alloy: 6106 T6 Ultimate Limit State: 210Mpa Minimum Live Load: 750 N/m

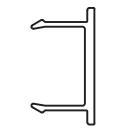
POST HEIGHT	MOUNTING OPTION				ULTIMATE W	IND PRESS	URE RATING			
	CORE 120	C4	C3	C3	C2	C2	C2	C2	C2	C2
1200	CORE 100	C4	C3	C3	C2	C2	C2	C2	C2	C2
	SIDE PLATE	C2	C2	C1	C1	C1	C1	C1	C1	-
	BASE PLATE	C2	C2	C1	C1	C1	C1	C1	C1	-
	CORE 120	C4	C3	C3	C3	C2	C2	C2	C2	C2
1150	CORE 100	C4	C3	C3	C3	C2	C2	C2	C2	C2
	SIDE PLATE	C2	C2	C2	C2	C1	C1	C1	C1	C1
	BASE PLATE	C2	C2	C2	C2	C1	C1	C1	C1	C1
	CORE 120	C4	C4	C3	C3	C3	C2	C2	C2	C2
1100	CORE 100	C4	C4	C3	C3	C3	C2	C2	C2	C2
	SIDE PLATE	C3	C2	C2	C2	C2	C1	C1	C1	C1
	BASE PLATE	C3	C2	C2	C2	C2	C1	C1	C1	C1
	CORE 120	C4	C4	C4	C3	C3	C3	C3	C2	C2
1050	CORE 100	C4	C4	C4	C3	C3	C3	C3	C2	C2
	SIDE PLATE	C3	C3	C2	C2	C2	C2	C1	C1	C1
	BASE PLATE	C3	C3	C2	C2	C2	C2	C1	C1	C1
	CORE 120	C4	C4	C4	C4	C3	C3	C3	C3	C2
1000	CORE 100	C4	C4	C4	C4	C3	C3	C3	C3	C2
	SIDE PLATE	C4	C3	C3	C2	C2	C2	C2	C2	C1
	BASE PLATE	C4	C3	C3	C2	C2	C2	C2	C2	C1
POST	CENTRES	800	900	1000	1100	1200	1300	1400	1500	1600



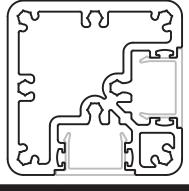


ENDURAL PROFILES

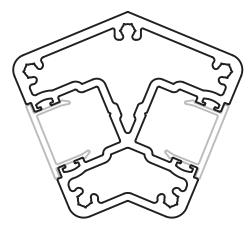
EndurAl[™] Post Sections



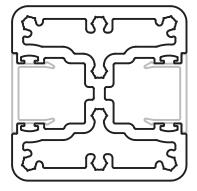
	ME8
ITEM	POCKET FILLER
ITEM NO.	1600748



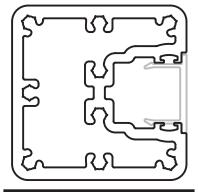
	HR501
ITEM	55mm 90 DEG POST
ITEM NO.	1629313



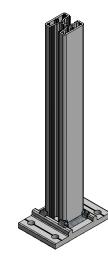
HR503					
ITEM	55mm 125 DEG POST				
ITEM NO.	1629316				



	HR500
ITEM	55mm 2 WAY POST
ITEM NO.	1629314

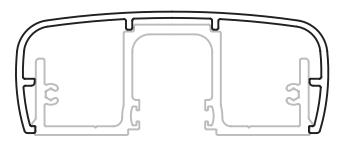


HR506						
ITEM	ONE WAY POST					
ITEM NO.	1629319					

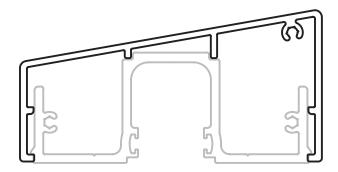


2 WAY WELDED POST						
ITEM NO.	1629333					
POST HEIGHT	1100mm					
COLOURS	MILL FINISH, SATIN BLACK, PRECIOUS SILVER PEARL					

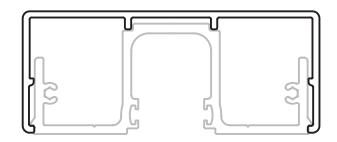
EndurAl[™] Rail Sections



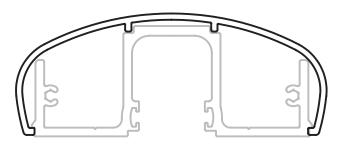
	HR505
ITEM	BULL NOSE TOP RAIL
ITEM NO.	1629318
ALUM ENDCAP	1331129



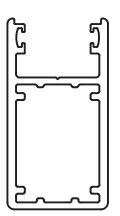
	HR508
ITEM	TAPERED TOP RAIL
ITEM NO.	1629321
ALUM ENDCAP	1331138



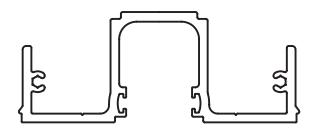
HR509		
ITEM	SQUARE TOP RAIL	
ITEM NO.	1629322	
ALUM ENDCAP	1331123	



HR510	
ITEM	ELLIPTICAL TOP RAIL
ITEM NO.	1629324
ALUM ENDCAP	1331139



HR502	
ITEM	55mm BOTTOM RAIL
ITEM NO.	1629315

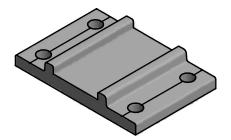


HR507	
ITEM	HAND RAIL BASE
ITEM NO.	1629320

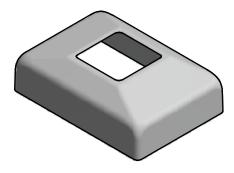


ENDURAL HARDWARE & ACCESSORIES

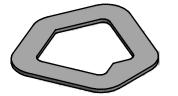
EndurAl[™] Base Plates & Accessories



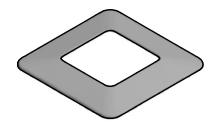
HRA4 ENDURAL BASE PLATE	
ITEM NO.	1331151
FINISH	MILL FINISH ALUMINIUM EXTRUSION
QTY	EACH



HRA5 ENDURAL BASE PLATE COVER	
ITEM NO.	1331152
FINISH	MILL FINISH ALLOY CASTING
QTY	EACH



HRA4 ENDURAL 135 DEG DRESS RING	
ITEM NO.	1331140
FINISH	MILL FINISH 3mm ALUMINIUM
QTY	EACH



HRA2 ENDURAL SQUARE DRESS RING	
ITEM NO.	1331111
FINISH	MILL FINISH ALLOY CASTING
QTY	EACH



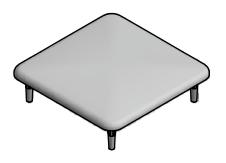
HRA3 ENDURAL BOTTOM RAIL SPIGOT	
ITEM NO.	1331150
FINISH	MILL FINISH ALUMINIUM EXTRUSION
QTY	EACH



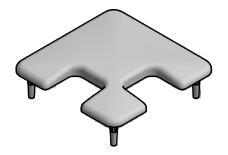
HRA1 ENDURAL GLASS SUPPORT BLOCK	
ITEM NO.	1331110
FINISH	BLACK PLASTIC
QTY	EACH



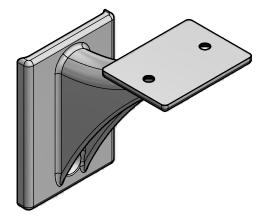
EndurAl™ End Caps & Brackets



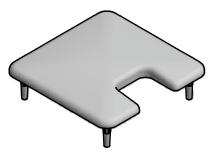
HRA13 ENDURAL POST END C AP	
ITEM NO.	1331132
FINISH	MILL FINISH ALLOY CASTING
QTY	EACH



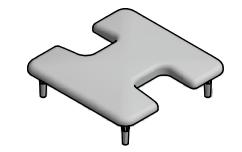
HRA15 ENDURAL POST END CAP - 90 DEG	
ITEM NO.	1331134
FINISH	MILL FINISH ALLOY CASTING
QTY	EACH



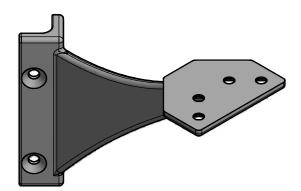
HRA17 ENDURAL STAND OFF HANDRAIL BRACKET		
ITEM NO.	1331136	
FINISH	MILL FINISH ALLOY CASTING	
QTY	EACH	



HRA14 ENDURAL POST END CAP - ONE WAY		
ITEM NO.	1331133	
FINISH	MILL FINISH ALLOY CASTING	
QTY	EACH	



HRA16 ENDURAL POST END CAP - TWO WAY		
ITEM NO.	1331135	
FINISH	MILL FINISH ALLOY CASTING	
QTY	EACH	



HRA17 ENDURAL CORNER STAND OFF BRACKET	
ITEM NO.	1331137
FINISH	MILL FINISH ALLOY CASTING
QTY	EACH

HEAD OFFICE | 3 Alspec Place Eastern Creek NSW 2766 Phone: 02 9834 9500 | Fax: 02 9834 9532 | info@alspec.com.au

SYDNEY BRANCH

3 Alspec Place Eastern Creek NSW 2766 Phone: 02 9834 9500 Fax: 02 9834 9555 sydney@alspec.com.au

CAIRNS BRANCH

11 Southgate Close Woree QLD 4868 Phone: 07 4037 6666 Fax: 07 4037 6699 cairns@alspec.com.au

TOWNSVILLE BRANCH

28 Camuglia Street Garbutt QLD 4814 Phone: 07 3089 4965 Fax: 1300 131 747 townsville@alspec.com.au

NEWCASTLE BRANCH

95 Griffiths Road Lambton NSW 2299 Phone: 02 4952 9111 Fax: 02 4952 9728 newcastle@alspec.com.au

BRISBANE BRANCH

8-22 Jutland Street Loganlea QLD 4131 Phone: 07 3089 4900 Fax: 07 3089 4999 brisbane@alspec.com.au

MELBOURNE BRANCH

26-40 Pound Road West Dandenong South VIC 3175 Phone: 03 8787 6333 Fax: 03 8787 6399 melbourne@alspec.com.au

PERTH BRANCH

30 Holder Way Malaga WA 6090 Phone: 08 9209 9100 Fax: 08 9209 9199 perth@alspec.com.au

ADELAIDE BRANCH

1 Pope Court Beverley SA 5009 Phone: 08 8150 6960 Fax: 08 8150 6999 adelaide@alspec.com.au

DARWIN BRANCH

25 Bishop Street Woolner NT 0820 Phone: 08 8941 7300 Fax: 08 8941 7322 darwin@alspec.com.au



Call 1300 ALSPEC alspec.com.au