

TECHNOLOGY IN MOTION



**MACO
ESPAGS**
ESPAGNOLETES



What is the ultimate Espagnolette Locking System

R.A.I.L.
Reverse Action In-Line

**MACO
ESPAGS**



R.A.I.L. – for when BS7950 security windows are required without the need to fit a shootbolt espagnolette. The reverse action operation pulls the cams together, clamping them into both sides of the striker plate for strength and security.

The design of the **R.A.I.L.** espagnolette makes it ideal for use on commercial applications, new build installations and public sector housing.

R.A.I.L. uses the existing range of MACO striker plates and is suitable for all types of eurogrooved profiles making it ideal for use not only on PVC profile systems but also Timber and Aluminium.



R.A.I.L. - The ultimate Inline Espagnolette Locking System



Simply perfect for all systems



The symmetrical design ensures a fast and simple fabrication process



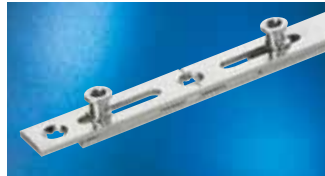
The **R.A.I.L.** lockcase features twin central adjustable mushroom bolts on the 200, 800, 900, 1000, 1100 & 1200 mm long sizes.

Combinations

Backset: 20 and 22 mm

Mushroom Bolt Height:

7.7, 9.0 and 10.5 mm



Twin adjustable end mushroom bolts are fitted on all sizes from 400 mm and above.

Sizes:

- Gr. 1 – 200 mm
- Gr. 2 – 400 mm
- Gr. 3 – 600 mm
- Gr. 4 – 800 mm
- Gr. 4a – 900 mm
- Gr. 5 – 1000 mm
- Gr. 5a – 1100 mm
- Gr. 6 – 1200 mm

Windows in open and closed position with MACO R.A.I.L.



OPEN Position

- When the window is in the open position the **R.A.I.L.** mushroom bolts are positioned on either side of a standard MACO mushroom striker plate.

- The distance between the mushroom bolts is the same as our MACH II Shootbolt System thus ensuring a smooth and trouble free operation.



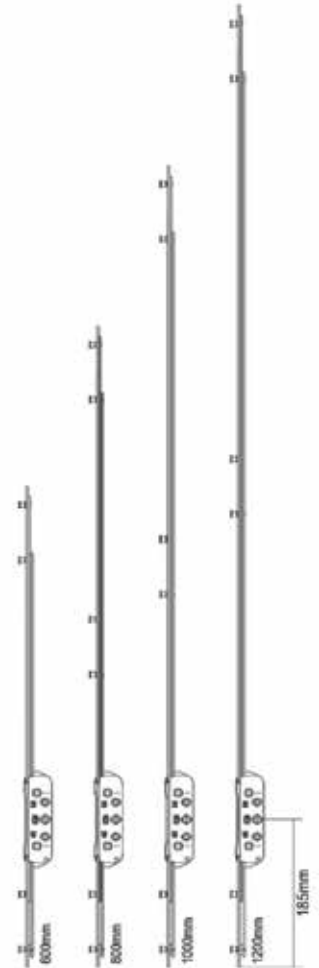
CLOSED / LOCKED Position



- When the window is in the closed / locked position the **R.A.I.L.** mushroom bolts enter both sides of the striker plate.

- This locking action that was developed by MACO on the MACH II Shootbolt System ensures that when the window is forced one of the mushroom bolts engages further into the striker plate.



R.A.I.L. Espagnolettes					
Silver Order N ^o	Back Set	Mushroom Bolt Height	Size		Quantity Striker Plates
			Gr	mm	
202693	20	7.7	1	200	1
202694	20	7.7	2	400	2
202695	20	7.7	3	600	2
202696	20	7.7	4	800	3
208805	20	7.7	4a	900	3
202697	20	7.7	5	1000	3
208806	20	7.7	5a	1100	3
202698	20	7.7	6	1200	3
202699	22	7.7	1	200	1
202700	22	7.7	2	400	2
202701	22	7.7	3	600	2
202702	22	7.7	4	800	3
208807	22	7.7	4a	900	3
202703	22	7.7	5	1000	3
208808	22	7.7	5a	1100	3
202704	22	7.7	6	1200	3
202705	20	9.0	1	200	1
202706	20	9.0	2	400	2
202707	20	9.0	3	600	2
202708	20	9.0	4	800	3
208809	20	9.0	4a	900	3
202709	20	9.0	5	1000	3
208810	20	9.0	5a	1100	3
202710	20	9.0	6	1200	3
202711	22	9.0	1	200	1
202712	22	9.0	2	400	2
202713	22	9.0	3	600	2
202714	22	9.0	4	800	3
208811	22	9.0	4a	900	3
202715	22	9.0	5	1000	3
208812	22	9.0	5a	1100	3
202716	22	9.0	6	1200	3
202691	20	10.5	1	200	1
202690	20	10.5	2	400	2
202689	20	10.5	3	600	2
202688	20	10.5	4	800	3
208813	20	10.5	4a	900	3
202687	20	10.5	5	1000	3
208814	20	10.5	5a	1100	3
202686	20	10.5	6	1200	3
202685	22	10.5	1	200	1
202684	22	10.5	2	400	2
202683	22	10.5	3	600	2
202682	22	10.5	4	800	3
208815	22	10.5	4a	900	3
202681	22	10.5	5	1000	3
208816	22	10.5	5a	1100	3
202679	22	10.5	6	1200	3



R.A.I.L. REACH					
Length	Size	BS	 Silver	 Silver	
600 mm	Gr. 3	20 mm	206827		206837
800 mm	Gr. 4	20 mm	206828		206838
900 mm	Gr. 4a	20 mm	208856		208860
1000 mm	Gr. 5	20 mm	206829		206839
1100 mm	Gr. 5a	20 mm	208857		208861
1200 mm	Gr. 6	20 mm	206830		206840
600 mm	Gr. 3	22 mm	206831		206842
800 mm	Gr. 4	22 mm	206832		206844
900 mm	Gr. 4a	22 mm	208858		208862
1000 mm	Gr. 5	22 mm	206835		206845
1100 mm	Gr. 5a	22 mm	208859		208863
1200 mm	Gr. 6	22 mm	206836		206846



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