

TECHNOLOGY IN MOTION



**MACO**  
**ESPAGS**  
ESPAGNOLETTES



What is the ultimate Espagnolette Locking System?

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

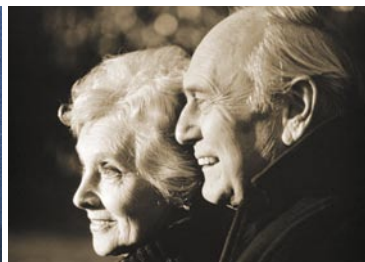
**MACO  
ESPAGS**



**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 PVCU 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, 1000 & 1200 mm long sizes.



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

#### Combinations

**Backset:** 20 and 22 mm

**Mushroom Bolt Height:**

7.7, 9.0 and 10.5 mm

#### Sizes:

Gr. 1 – 200 mm

Gr. 2 – 400 mm

Gr. 3 – 600 mm

Gr. 4 – 800 mm

Gr. 5 – 1000 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.

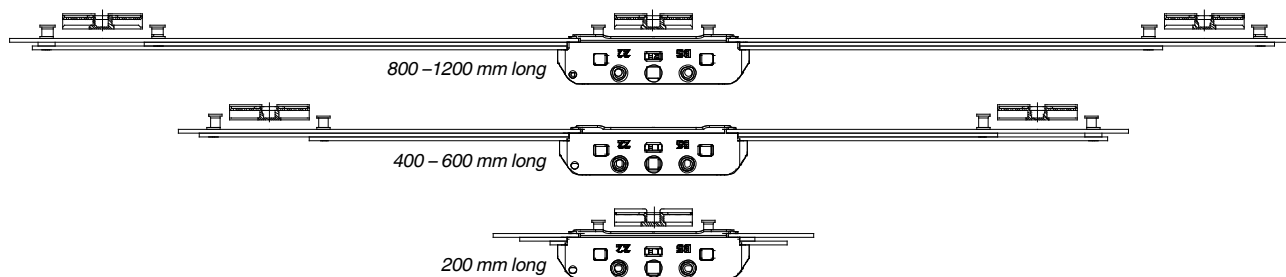


#### CLOSED / LOCKED Position

- 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 <sup>o</sup>	Yellow Order N <sup>o</sup>	Back Set	Mushroom Bolt Height	Size		Quantity Striker Plates
				Gr	mm	
202693	201915	20	7.7	1	200	1
202694	201916	20	7.7	2	400	2
202695	201917	20	7.7	3	600	2
202696	201918	20	7.7	4	800	3
202697	201919	20	7.7	5	1000	3
202698	201920	20	7.7	6	1200	3
202699	201921	22	7.7	1	200	1
202700	201922	22	7.7	2	400	2
202701	201923	22	7.7	3	600	2
202702	201924	22	7.7	4	800	3
202703	201925	22	7.7	5	1000	3
202704	201926	22	7.7	6	1200	3
202705	201927	20	9.0	1	200	1
202706	201928	20	9.0	2	400	2
202707	201929	20	9.0	3	600	2
202708	201930	20	9.0	4	800	3
202709	201931	20	9.0	5	1000	3
202710	201932	20	9.0	6	1200	3
202711	201933	22	9.0	1	200	1
202712	201934	22	9.0	2	400	2
202713	201935	22	9.0	3	600	2
202714	201936	22	9.0	4	800	3
202715	201937	22	9.0	5	1000	3
202716	201938	22	9.0	6	1200	3
202691	202667	20	10.5	1	200	1
202690	202668	20	10.5	2	400	2
202689	202669	20	10.5	3	600	2
202688	202670	20	10.5	4	800	3
202687	202671	20	10.5	5	1000	3
202686	202672	20	10.5	6	1200	3
202685	202673	22	10.5	1	200	1
202684	202674	22	10.5	2	400	2
202683	202675	22	10.5	3	600	2
202682	202676	22	10.5	4	800	3
202681	202677	22	10.5	5	1000	3
202679	202678	22	10.5	6	1200	3



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