

Designed for heavy duty high-performance security, blast, ballistic, fire & acoustic protection doorsets, offering unrivalled levels of load carrying capability, successfully tested up to LPS1175 Security Rating E10 (SR5), EN1627 up to RC5, plus FEFR 60 mins, on selected doorsets. All manufactured from 316 stainless steel for the most arduous environments.

Internal linear bearings within each knuckle and thrust bearings between each knuckle, ensures trouble free operation and longevity, hinges that you can rely on. Discrete security pins are available on the 'A' version of the 'HA6' and 'HA7' hinges.



**HA6 HIGH-PERFORMANCE HINGE WITH
OPTIONAL KNOCK-IN PIN**

FEATURES

- Strength to support heavy loading
- Robust to withstand heavy use and longevity
- Stainless steel for arduous environments
- Sealed top and bottom knuckles
- Bearings within and between each knuckle
- CE and UKCA marked to BS EN 1935 Grade 14

BENEFITS

- Self-lubricating bearings
- Engineered for longevity and trouble-free service
- Certified to a range of international standards (see Product Performance Chart)

OPTIONS

- Knock-in & Screw-in dog bolts (security pins) on HA6 & HA7 hinges
- Extended leaves for thicker doors on HA6 & HA7 hinges
- Special leaf width cutting, and mounting screw positions accommodated on 80mm leaves

FINISH*

- Brushed stainless steel (as standard)
- Polished stainless steel
- Bronze lacquer finish
- Brass lacquer finish

*Additional finishes available on request

PRODUCT PERFORMANCE CHART

☐ Indicates product has been certified, or tested & approved as part of a complete doorset assembly. Product certification is subject to the chosen lock configuration, for full details please contact the sales office.



SECURITY															SAFETY	BALLISTIC	BLAST	FIRE	CORROSION	CYCLES				
LPS 1175								LPS 1673 (AR.)					FEBR (min)	EN 1627							STS 202	PAS 24	LPS 2081	
Issue 7	SR1	SR2	SR3	SR4	SR5	SR6	SR7																	SR8
Issue 8	A	B	C	D	E	F	G	H	TIME	A	B	C	D											
20 MIN									300 SEC	A300	B300	C300	D300	60	RC6	BR6	PAS 24	SRB	EN 1125	EN 1522 FB7	ISO 16933 EXV 15	UL 10C	GR5	1 MIL
15 MIN									240 SEC						RC5	BR5								EN 1634-1
10 MIN	A5	B5	C10	D10	E10				180 SEC					15	RC4	BR4		SRA	EN 179	UL752 Level 1-10	ASTM F2927 Cat 1	CERTIFIRE	GR3	500K
5 MIN									120 SEC						RC3	BR3								GR2
3 MIN									60 SEC					5	RC2	BR2			UL 305	NIJ 0108.01 Level 2 & 3			GR1	200K
1 MIN									30 SEC						RC1	BR1					BS 476-22			

HA6**

100 MM (3.94 IN) HIGH-PERFORMANCE HINGE

Technical information

- Stainless steel for arduous environments
- Sealed top and bottom knuckles
- Bearings within and between each knuckle
- Additional 10mm (0.393") hardware fixing hole for enhanced security
- Tested to over 1 million cycles
- CE and UKCA marked to BS EN 1935 Grade 14



HA6

HA7**

146 MM (5.75 IN) HIGH-PERFORMANCE HINGE

Technical information

- Stainless steel for arduous environments
- Sealed top and bottom knuckles
- Bearings within and between each knuckle
- Additional 10mm (0.393") hardware fixing hole for enhanced security
- Tested to over 1 million cycles
- CE and UKCA marked to BS EN 1935 Grade 14



HA7

HA8

210 MM (8.27 IN) HIGH-PERFORMANCE HINGE

Technical information

- Face Mounting
- 316 Stainless steel for arduous environments
- Sealed top and bottom knuckles
- Bearings within and between each knuckle
- Tested to over 1 million cycles



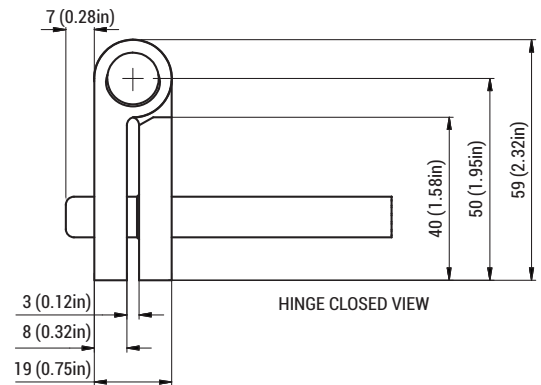
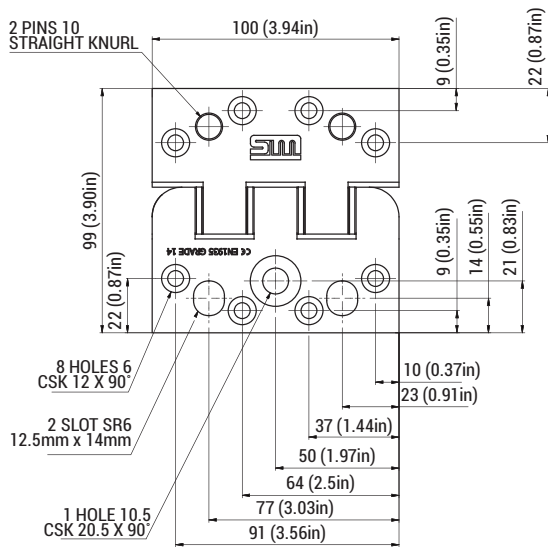
HA8



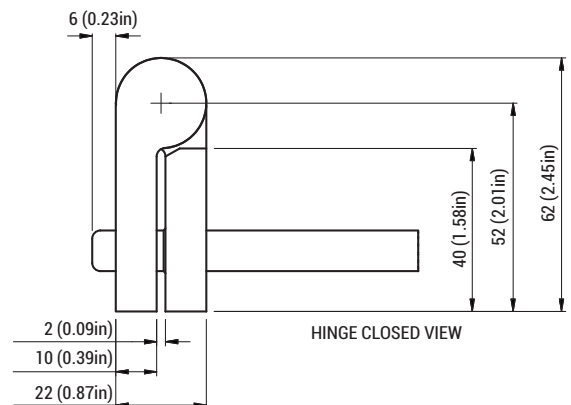
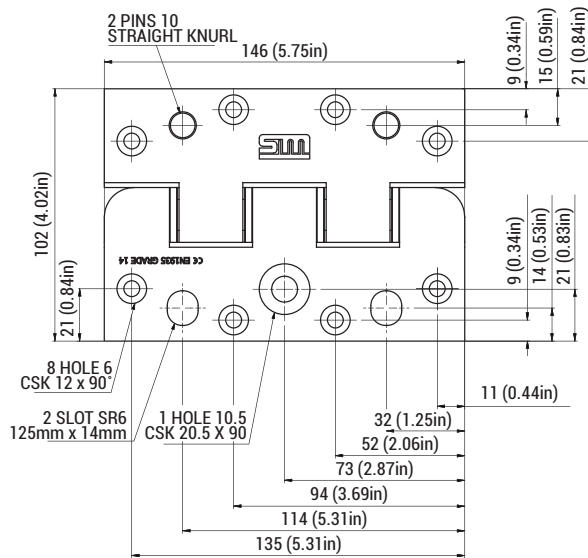
HA7 60 MM EXTENDED

HIGH-PERFORMANCE HINGES TECHNICAL DRAWINGS

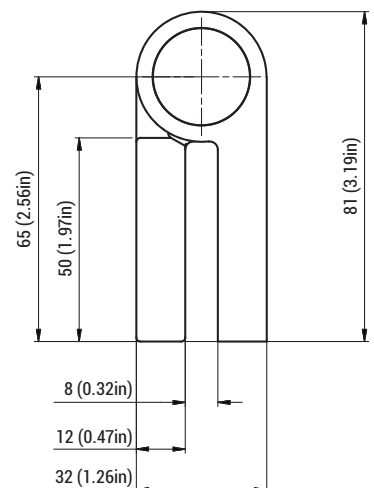
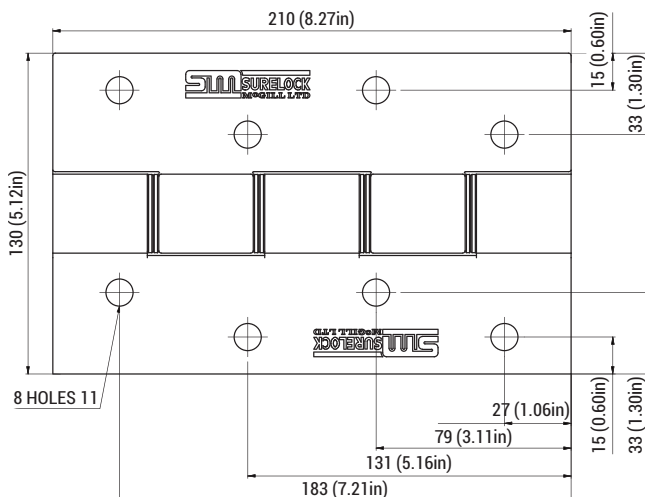
HA6



HA7

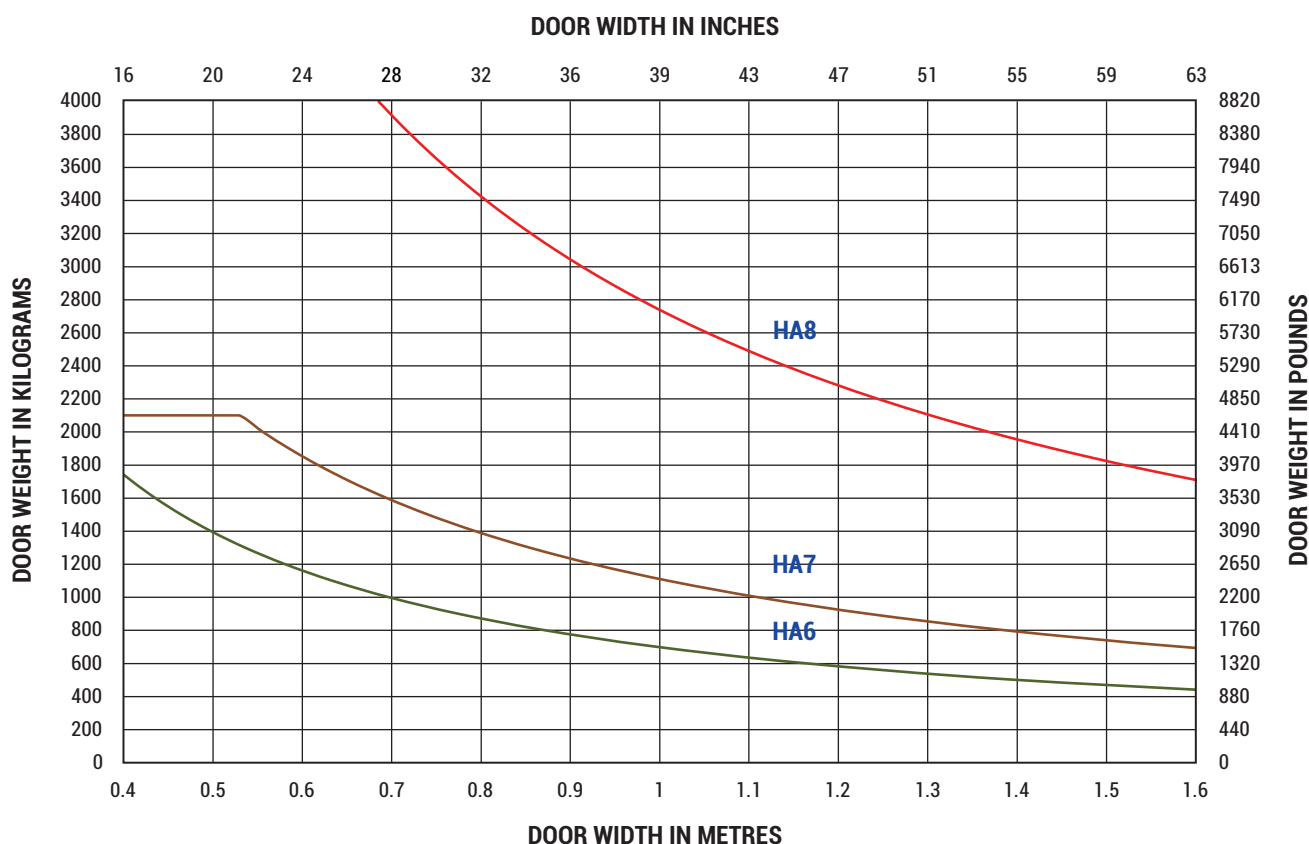


HA8



TECHNICAL INFORMATION

The following chart is a guide for maximum door sizes and weights, based on a door height of 2.2 metres (7.2ft) using three hinges equally spaced.



RADIAL AND THRUST LOAD CAPACITY		
PRODUCT	RADIAL LOAD CAPACITY (kN)	THRUST LOAD CAPACITY (kN)
HA6	1.71 kN	11.2 kN
HA7	2.72 kN	11.2 kN
HA8	6.72 kN	26.6 kN

SELF CODING SYSTEM

High-Performance Hinges have a structured ordering code that covers the type of hinge and mounting plate sizes, followed by additional enhancements such as security pins and finishes.

EXAMPLE ORDER CODE: HA7-40-B -00

SYSTEM		TYPE		MOUNTING PLATE SIZE		SECURITY PINS		FINISH	
HA	High-Performance Hinge	6	100 mm (3.94")	40	40 mm (1.58") HA6 & HA7 (Standard)	A	Knock-in pin	00	Satin (Standard)
		7	146 mm (5.75")	50	50 mm (1.97") HA8 (Standard)	B	No pin provided	01	Polished
		8	210 mm (8.27")	60	+ 20 mm (0.79") mounting plates on HA6 & HA7 (Extended)	E	Screw-in pin	15	Lacquered brass
				80	+ 40 mm (1.58") mounting plates on HA6 & HA7 (Extended)			16	Lacquered bronze
				90	+ 50 mm (1.97") mounting plates on HA6 & HA7 (Extended)			99	Other special