

High performance Cam Lift for acoustic and RFI doors to support the weight and radial load as the door opens and closes. The HC30 Cam Lift Hinge provides a consistent smooth lift of 7.5 mm (0.29") over 180°, releasing the door from its bottom seal, reducing the risk of damage and wear.

Superb in design with fully machined helixes, the HC30 Cam Lift Hinge can handle door weights up to 350 kg (770 lbs). Manufactured in 316 grade stainless steel for maximum strength even in the harshest environments.



HC30 LEFT HAND CAM LIFT



HC30 LEFT HAND CAM LIFT WITH
OPTIONAL SCREW-IN PIN

FEATURES

- Full mortise hinge recessed into door and frame
- Designed for door weights up to 350 kg (770 lbs)
- 7.5 mm (0.29") lift over 180°
- 316 grade stainless steel offering long term durability
- Install using 8 x M6 A2 (#12-24 UNC 18-8) stainless steel screws (not supplied)
- Less than 2.5 kg (5 lbs) opening force on door leafs under 200 kg (440 lbs) to meet ADA requirements, with 2 hinges

BENEFITS

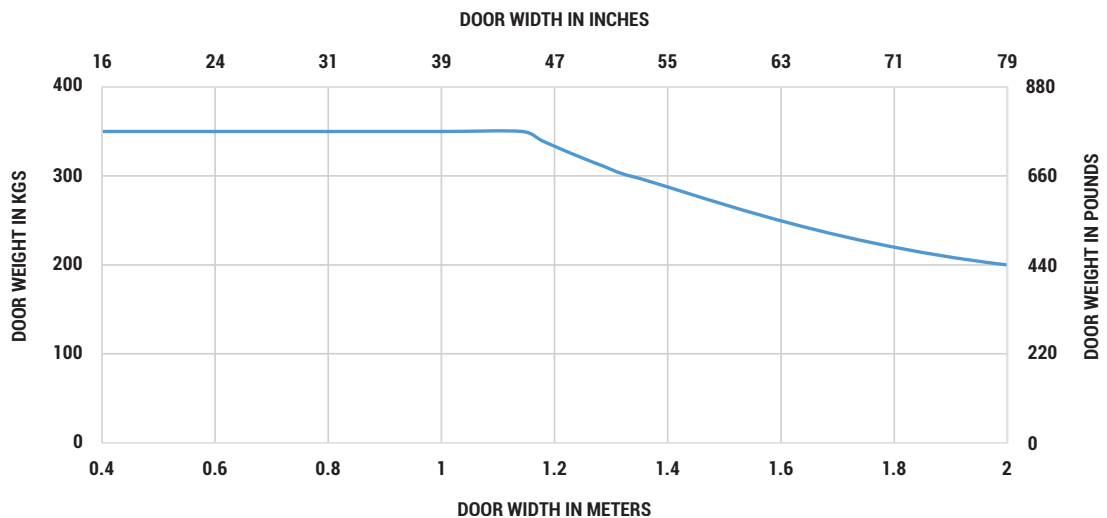
- Grease nipple for ease of service
- Cost savings from reduced damage and wear to door seals
- 5 x 5 leaf size and hole pattern match ANSI/BHMA standard mortise prep

OPTIONS

- Compatible HC30 Electrified Power Transfer (EPT) hinge available with 12 conductor wire assembly

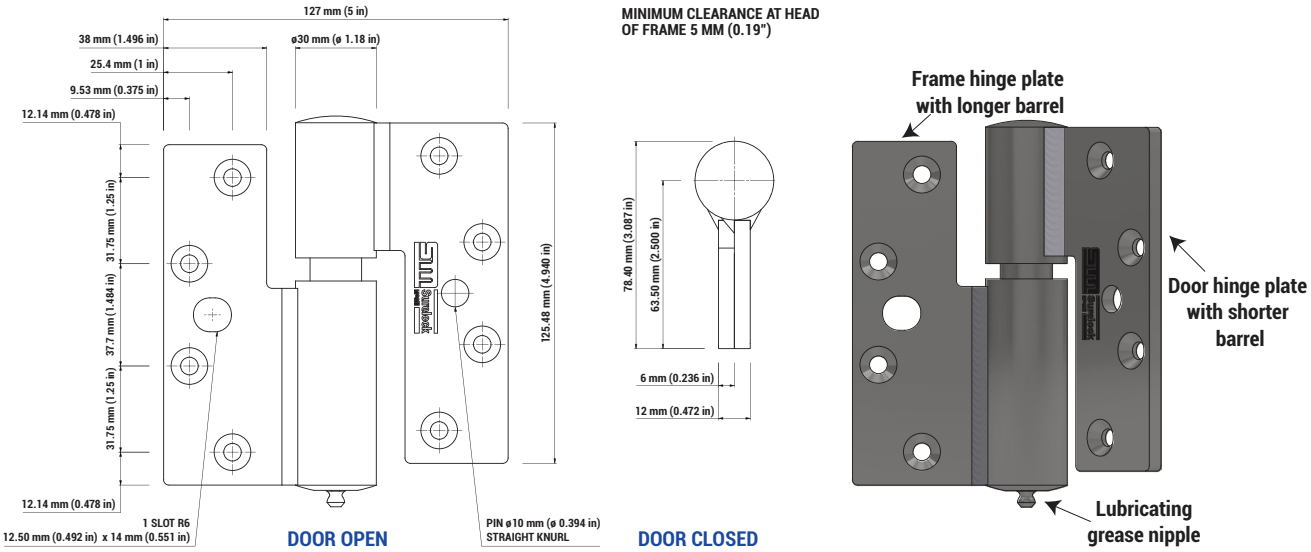
LOADING CHART

The following chart is a guide for maximum door widths and weights tested on a door height of 2.1 m using 2 hinges spaced equally apart at the top and bottom of the leaf.

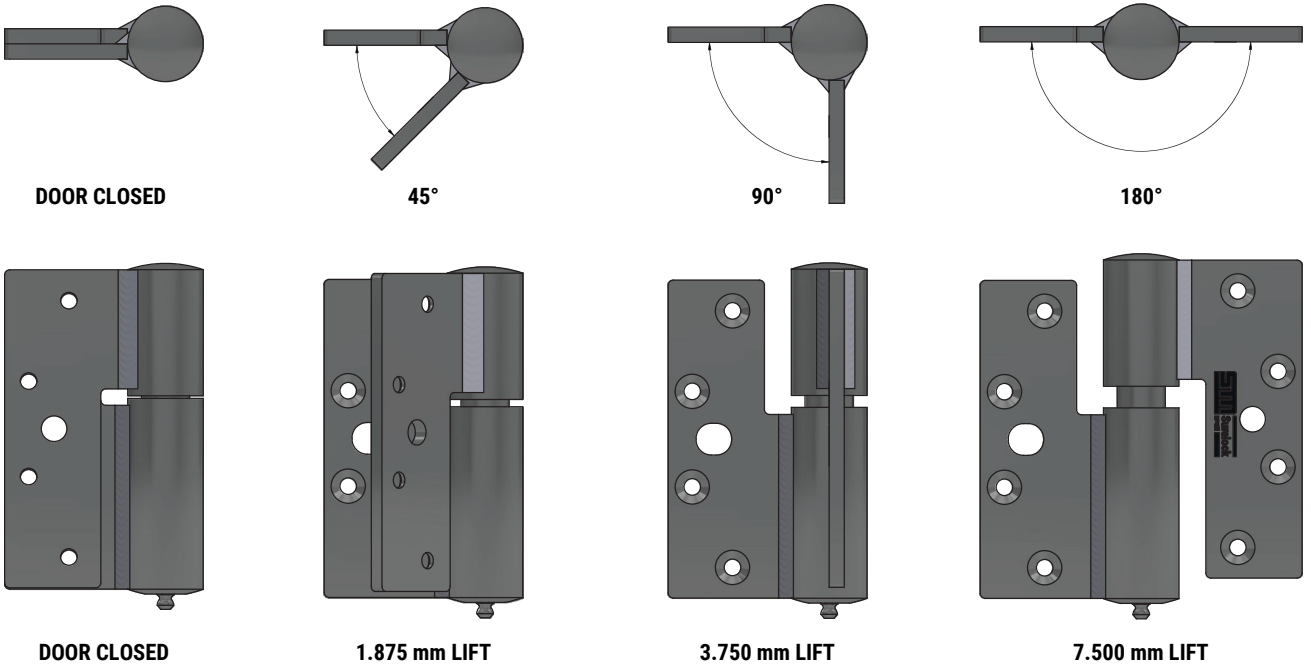


LOAD DECLARATIONS - All load ratings are based on mounting with M6 A2, or #12-24 UNC 18-8 stainless steel screws
 Radial load capacity - 100 kg (220 lbs) per Cam Lift Hinge
 Thrust load capacity - 175 kg (385 lbs) per Cam Lift Hinge

HC30 CAM LIFT HINGE TECHNICAL DRAWINGS



HC30 CAM LIFT HINGE DETAIL OF LIFT



SELF CODING SYSTEM

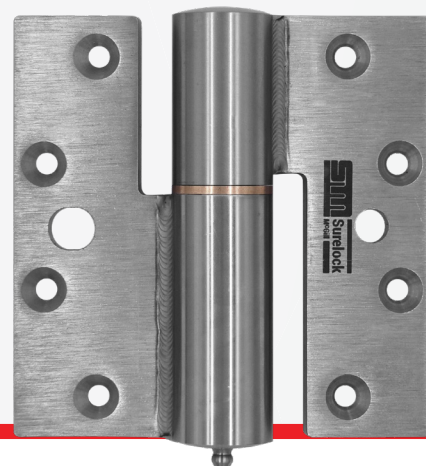
The HC30 Cam Lift Hinges have a structured ordering code that covers the quantity, plate details, security pins, finish and handing. Additional enhancements can be added to further customise.

EXAMPLE ORDER CODE: HC30-C2-55-00-B-LH (1 PAIR)

SYSTEM		LOADING REQUIREMENT		HINGE CODE & QTY			MOUNTING PLATE WIDTH		FINISH		SECURITY PINS		ORIENTATION	
HC	30	Medium Duty	C	1	Cam Lift Hinges (single)		55	ANSI 5x5 Mortise	00	Satin	A	Knock-in Pin	RH	Right Hand
				2	Cam Lift Hinges (1 pairs)					B	No Pin Provided	LH	Left Hand	
				3	Cam Lift Hinges (1 1/2 pairs)					E	Screw-in Pin			

High performance HC30 Lift-Off Hinges for medium duty, high performance hinged doors, supporting the weight and radial load as the door opens and closes. Superb in design, the HC30 Lift-Off Hinge can handle door weights up to 350 kg (770 lbs). Manufactured in 316 grade stainless steel for maximum strength even in the harshest environments. Fitted with a thrust bearing and grease nipple for lubrication, providing smooth operation and longevity.

HC30 Lift-Off Hinges are normally used in a pair (2), or 1 ½ pairs (3) for over-height doors.



HC30 LEFT HAND LIFT-OFF



HC30 LEFT HAND LIFT-OFF WITH
OPTIONAL SCREW-IN PIN

FEATURES

- Full mortise hinge recessed into door and frame
- Designed for door weights up to 350 kg (770 lbs)
- Suitable for single axis swing doorsets
- 316 grade stainless steel offering long term durability
- Thrust bearing and greasing facility for smooth pivot operation and longevity
- Install using 8 x M6 A2 (#12-24 UNC 18-8) stainless steel screws (not supplied)
- Less than 2.5 kg (5 lbs) opening force on door leafs under 200 kg (440 lbs) to meet ADA requirements, with 2 hinges

BENEFITS

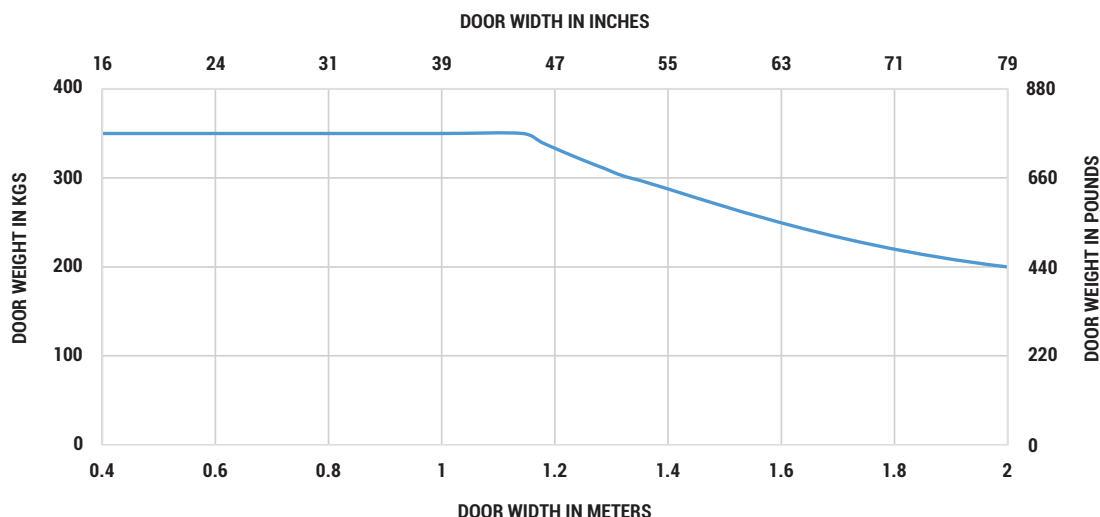
- Grease nipple for ease of service
- 5 x 5 leaf size and hole pattern match ANSI/BHMA standard mortise prep

OPTIONS

- Compatible HC30 Electrified Power Transfer (EPT) hinge available with 12 conductor wire assembly

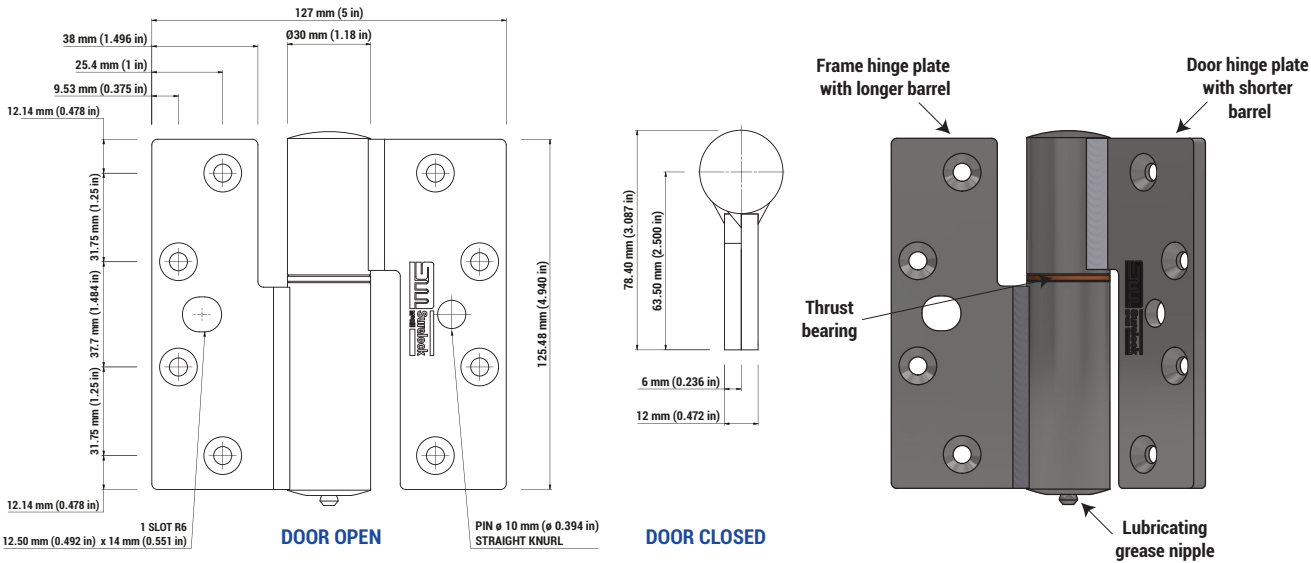
LOADING CHART

The following chart is a guide for maximum door widths and weights tested on a door height of 2.1 m using 2 hinges spaced equally apart at the top and bottom of the leaf.



LOAD DECLARATIONS - All load ratings are based on mounting with M6 A2, or #12-24 UNC 18-8 stainless steel screws
 Radial load capacity - 100 kg (220 lbs) per Lift-Off Hinge
 Thrust load capacity - 175 kg (385 lbs) per Lift-Off Hinge

HC30 LIFT-OFF HINGE TECHNICAL DRAWINGS



SELF CODING SYSTEM

The HC30 Lift-Off Hinges have a structured ordering code that covers the quantity, plate details, security pins, finish and handing. Additional enhancements can be added to further customise.

EXAMPLE ORDER CODE: HC30-L2-55-00-B-LH (1 PAIR)

SYSTEM		LOADING REQUIREMENT		HINGE CODE & QTY			MOUNTING PLATE WIDTH		FINISH		SECURITY PINS		ORIENTATION	
HC	30	Medium Duty	L	1	Lift-Off Hinges (single)	55	ANSI 5x5 Mortise	00	Satin	A	Knock-in Pin	RH	Right Hand	
				2	Lift-Off Hinges (1 pairs)				B	No Pin Provided	LH	Left Hand		
				3	Lift-Off Hinges (1 1/2 pairs)				E	Screw-in Pin				

High performance Cam Lift Hinge sets for acoustic and RFI doors to support the weight and radial load as the door opens and closes. The HC44 Cam Lift Hinge set provides consistent smooth lift of 12.7 mm (0.5") over 180°, releasing the door from its bottom seal, reducing the risk of damage and wear.

Superb in design with fully machined helixes, the HC44 Cam Lift Hinge set can handle door weights up to 3,500 kg (7,700 lbs). Manufactured in 316 grade stainless steel for maximum strength even in the harshest environments.



HC44 LEFT HAND CAM LIFT



HC44 LEFT HAND SUPPORT

FEATURES

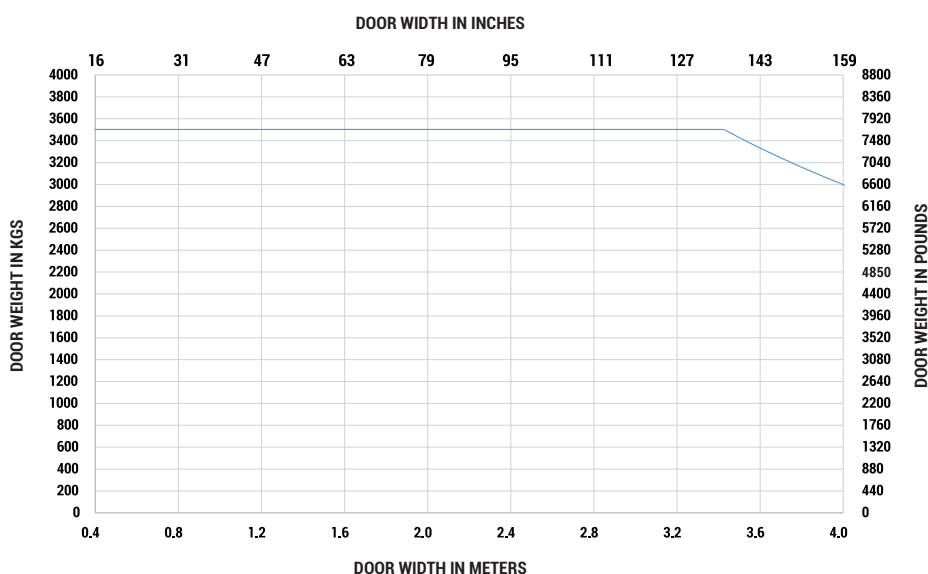
- Full surface hinge (surface mounted onto door and frame)
- Designed for door weights up to 3,500 kg (7,700 lbs) and a radial load up to 3,000 kg (6,600 lbs)
- 6.4 mm (0.25") lift over 90°
- 12.7 mm (0.5") lift over 180°
- 316 grade stainless steel offering long term durability
- Greasing facility for smooth operation and longevity
- Install using 8 x M12 Grade 12.9 (1/2"-13 UNC Grade 8) screws (not supplied)
- Adjustable set-screw with locking nut on Cam Lift hinges to adjust base level of separation between top and bottom barrel
- Set includes one HC44 Cam Lift and a pair (2) of HC44 Support hinges

BENEFITS

- Easy door height adjustment
- Engineered for longevity and trouble-free service
- Grease nipple for ease of service

LOADING CHART

The following chart is a guide for maximum door widths and weights tested on a door height of 2.1 m using 2 Support hinges and 1 Cam Lift hinge spaced equally apart at the top and bottom of the leaf.



LOAD DECLARATIONS - All load ratings are based on mounting with M12 Grade 12.9 screws or 1/2"-13 UNC Grade 8 screws
 Radial load capacity - 3,000 kg (6,600 lbs) per Support Hinge | No radial load capacity per Cam Lift Hinge
 Thrust load capacity - 3,500 kg (7,700 lbs) per Cam Lift Hinge

DOOR CLOSED

Technical drawing showing the door closed position. Dimensions include: 25.40 mm (1 in) for the side plate width, 176 mm (6.929 in) for the total width, 44.45 mm (ø 1.750 in) for the hinge pin diameter, 177.80 mm (7 in) for the total height, and 44 mm (1.732 in) for the distance between mounting holes. The drawing shows two hinge plates with four mounting holes each, and a central hinge pin.

DOOR OPEN

Technical drawing showing the door open position. Dimensions include: 110.23 mm (4.340 in) for the total height, 88 mm (3.465 in) for the distance between mounting holes, 12 mm (0.472 in) for the pin diameter, 22.23 mm (0.875 in) for the pin length, and 44.46 mm (1.750 in) for the pin diameter. The drawing shows the hinge pin and the door hinge plate.

MINIMUM CLEARANCE AT HEAD OF FRAME 8 MM (0.31")

Technical drawing showing the minimum clearance at the head of the frame. Dimensions include: 110.23 mm (4.340 in) for the total height, 88 mm (3.465 in) for the distance between mounting holes, 12 mm (0.472 in) for the pin diameter, 22.23 mm (0.875 in) for the pin length, and 44.46 mm (1.750 in) for the pin diameter. The drawing shows the hinge pin and the door hinge plate.

Door hinge plate & barrel

Height adjustment set-screw & locknut

Frame hinge plate & barrel

Lubricating grease nipple

Technical drawing showing the door hinge plate and barrel assembly. The drawing includes labels for the door hinge plate & barrel, height adjustment set-screw & locknut, frame hinge plate & barrel, and lubricating grease nipple. The drawing shows the door hinge plate with four mounting holes, the frame hinge plate with four mounting holes, and the central hinge pin with a height adjustment set-screw and locknut at the top and a lubricating grease nipple at the bottom.

The diagram illustrates the four operating positions of the 500 Series Overhead Door Opener:

- 180°:** The door is fully open, and the opener arm is horizontal, pointing away from the door.
- 135°:** The door is partially open, and the opener arm is angled upwards.
- 90°:** The door is partially open, and the opener arm is vertical.
- DOOR OPEN:** The door is fully open, and the opener arm is horizontal, pointing towards the door.

Below each top-down view is a side view of the opener unit, showing the door's position relative to the opener. The side views are labeled:

- DOOR CLOSED:** The door is closed, and the opener arm is horizontal.
- 3.175 mm LIFT:** The door is partially open, and the opener arm is angled upwards.
- 6.350 mm LIFT:** The door is partially open, and the opener arm is vertical.
- 12.700 mm LIFT:** The door is fully open, and the opener arm is horizontal.

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High performance HC44 Lift-Off Hinges for heavy duty, high performance hinged doors, supporting the weight and radial load as the door opens and closes. Superb in design, the HC44 Lift-Off Hinge can handle door weights up to 3,500 kg (7,700 lbs). Manufactured in 316 grade stainless steel for maximum strength even in the harshest environments. Fitted with a thrust bearing and grease nipple for lubrication, providing smooth operation and longevity.

HC44 Lift-Off Hinges are normally used in a pair (2), or 1½ pairs (3) for over-height doors.



HC44 LEFT HAND LIFT-OFF

FEATURES

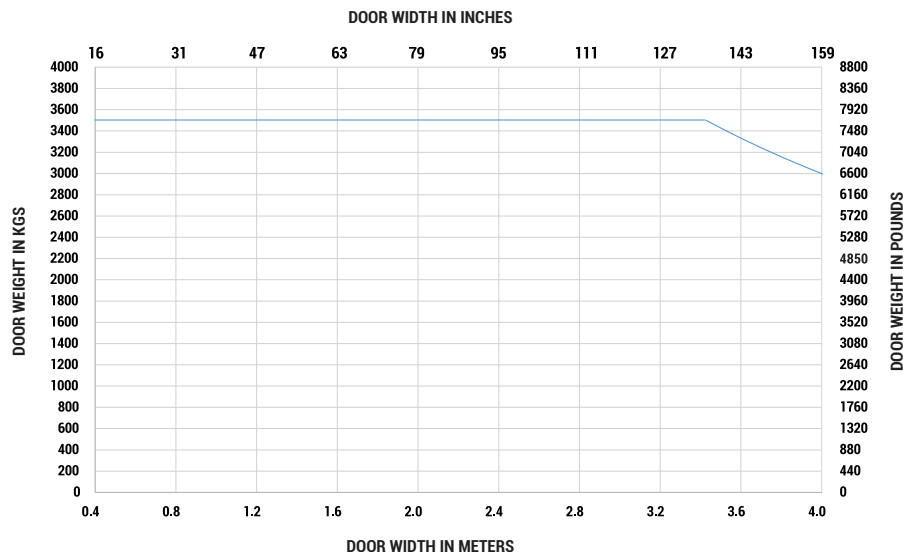
- Full surface hinge (surface mounted onto door and frame)
- Designed for door weights up to 3,500 kg (7,700 lbs) and a radial load up to 3,000 kg (6,600 lbs)
- 316 grade stainless steel offering long term durability
- Thrust bearing and greasing facility for smooth operation and longevity
- Install using 8 x M12 Grade 12.9 (1/2"-13 UNC Grade 8) screws (not supplied)

BENEFITS

- Grease nipple for ease of service
- Engineered for trouble free service
- Ideal solution for oversized and specialist doors

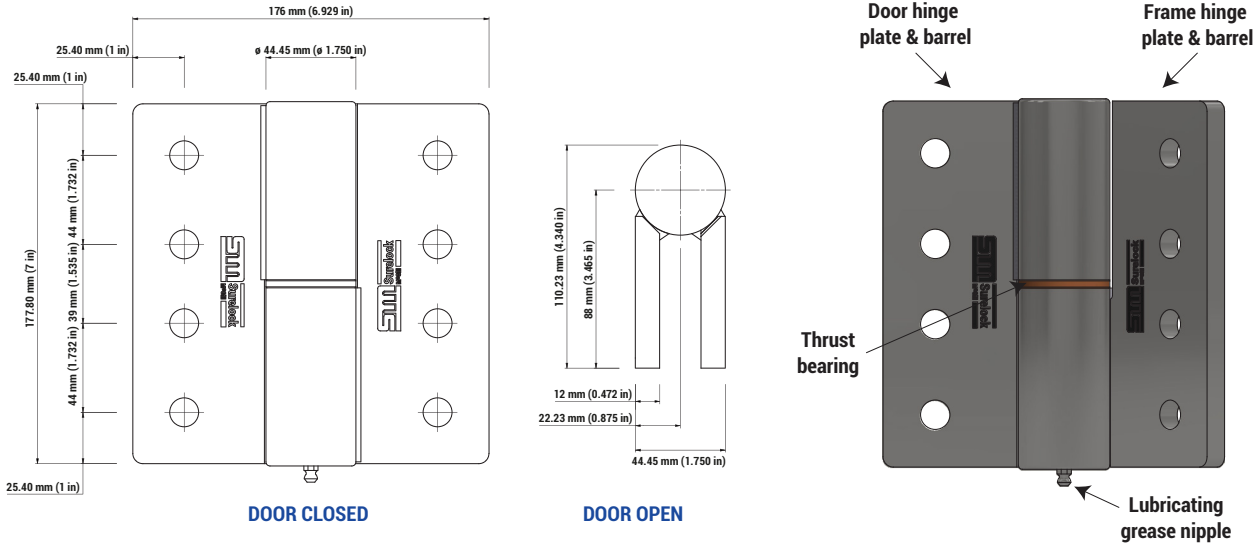
LOADING CHART

The following chart is a guide for maximum door widths and weights tested on a door height of 2.1 m using 3 hinges spaced equally apart at the top and bottom of the leaf.



LOAD DECLARATIONS - All load ratings are based on mounting with # M12 Grade 12.9 screws or 1/2"-13 UNC Grade 8 screws
 Radial load capacity - 3,000 kg (6,600 lbs) per Lift-Off Hinge
 Thrust load capacity - 3,500 kg (7,700 lbs) per Lift-Off Hinge

HC44 LIFT-OFF TECHNICAL DRAWINGS



SELF CODING SYSTEM

The HC44 Lift-Off Hinge has a structured ordering code that covers the quantity, plate details, finish and handing. Additional enhancements can be added to further customise.

EXAMPLE ORDER CODE: HC44-L2-77-00-LH (1 PAIR)

SYSTEM		LOADING REQUIREMENT		HINGE CODE & QTY			MOUNTING PLATE WIDTH		FINISH		ORIENTATION	
HC	44	Heavy Duty	L	2	Lift-Off Hinges (1 pair)	77	Surface 7" x 7" (178 mm x 178 mm)		00	Satin	RH	Right Hand
				3	Lift-Off Hinges (1 1/2 pairs)				LH	Left Hand		