Do not scale drawing
Hand of door as noted
Dimensions are in inches (mm.)

All dimensions from face of stop.

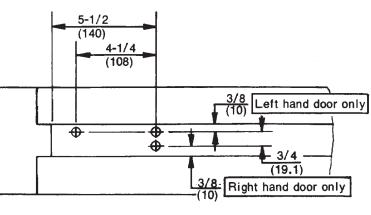
Product application as charted only.

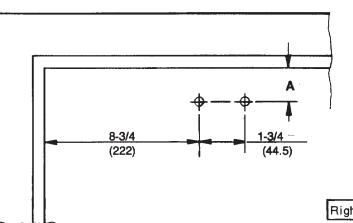
Caution: Door swing may be limited by door, frame, wall, or hardware conditions.

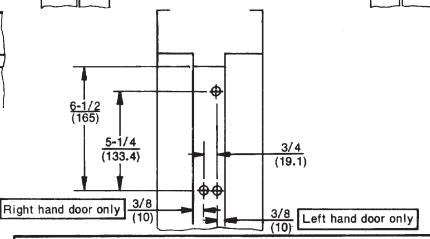
Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.







Left hand door

Right hand door

Corner Bracket	Closer Series	Dimension A		
		inches	mm.	
7798	7500-7700	3/4	19	
	7500-7700	1-7/8	48	
7797	7580-7780	2-3/8	60	
:	7500H-7700H	1-3/4	44	

Preparation for Fasteners					
Fasteners	Door or Frame	Drill-Size			
#14 x ¼" (32mm.) type	Wood	3/16" (4.30mm.)			
"A" S.M. screw (Std.)	Aluminum	7/32" (5.50mm.)			
14"-20 machine screw (Standard)	Metal	drill: #7 (.201") tap: 1/4"-20			
Sex-nuts and bolts	Hollow-metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) door-face opposite to closer			
(Optional)	A luminum or Wood	3/8" (9.50mm.) through			
Through-bolts and grommet-nuts (Optional)	AII	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep door-face opposite to closer			

7500, 7500H, 7580, 7700, 7700H, and 7780 Series Door Closers
With 7797 or 7798 Corner Bracket
Corner Bracket Installation With Non Hold Open or Hold Open Arm

RIXSON

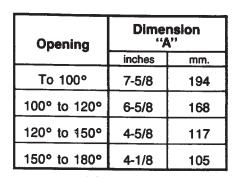
ASSA ABLOY

TEMPLATE NUMBER 7377-0149

REV DATE **12/21**

/3//

(38)



2 holes for arm-shoe 5-5/8 1-1/8(143)3/4 (19)2-3/8 (60.3) 4-3/8 (19.1)(101.6) $(111.1)_{1}$ 12-3/8 (314.3)6-3/4 (171.5)4 holes for closer Drengration for Easteners 4 holes for 7786 backplate.

Do not scale drawing Right hand door shown Dimensions are in $\frac{\text{inches}}{(\text{mm.})}$

Caution: Door swing may be limited by door, frame, wall, or hardware conditions (including closer projection).

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.

Preparation for Fasteners							
	Fasteners	Door or Frame	Drill-Sizes				
Standard	#14 type "A" S.M. screw Arm: 1-1/4" (32mm.) Closer: 2-3/4" (70mm.)	Wood	3/16" (4.30mm.)				
S	1/4-20 machine-screw	Metai	drill: #7 (.201" dia.) tap: 1/4-20				
nai	Sex-nuts and bolts	Hollow- Metal	9/32* (7.00mm.) through; 3/8* (9.50mm.) on door or transom-face opposite to closer				
Optiona		Aluminum or Wood	3/8" (9.50mm.) through				
3	Through-bolts and grommet-nuts	AII	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia · x 3/8" (10mm.) deep on door or transom-face opposite to closer				

7500, 7700, 7700COU, 7700TEL
7500H, 7700H, and 7700HOSP Series Door Closers
With or Without 7786 Backplate
Regular Arm Installation With Non Hold Open or Hold Open Arm

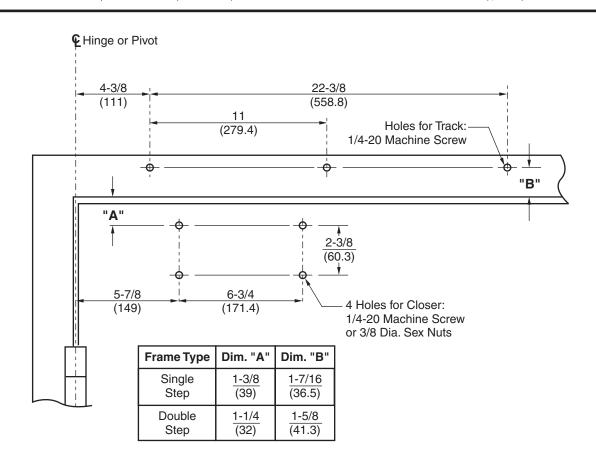
Hinge or Pivot

RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7377-0101

3 | 12/21



Single Step Frame
Reveal
Double Step Frame 5/8 (16) Reveal

NOTES

- 1. Do not scale drawing.
- 2. Right hand door shown.
- 3. Dimensions are in inches (mm).
- 4. **Important:** From centerline of pivot to end of track 26-7/8" (683mm).
- 5. Charted dimensions measured from door rabbet.
- 6. Minimum ceiling clearance for unit is 2-1/8" (54mm).
- 7. Maximum door opening is 105°.
- 8. Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.
- Minimum thickness recommended for reinforcements in hollowmetal doors and frames:
 - .1046 (2.66mm) unless otherwise noted.

3/8 Dia. Sex Nut Wood or Composite Door 3/8 Drill, .375" (9.50mm) Dia. Thru

7700ST-DE/7500ST-DE Series Non-Hold Open Door Closers 7700STH-DE/7500STH-DE Series Hold Open Door Closers Hinge Side Slide Track Application For Double Egress Frame

Preparation for Fasteners

Opening

Metal Frame

Metal

Door or Frame

Fasteners

8-32 Machine Screw

1/4-20 Machine Screw

NORTON RIXSON ASSA ABLOY

TEMPLATE NUMBER

REV DATE 12/21

7377-0511

Hinge Side Frame Reveals 1/8" to 3" (3 to 76mm)

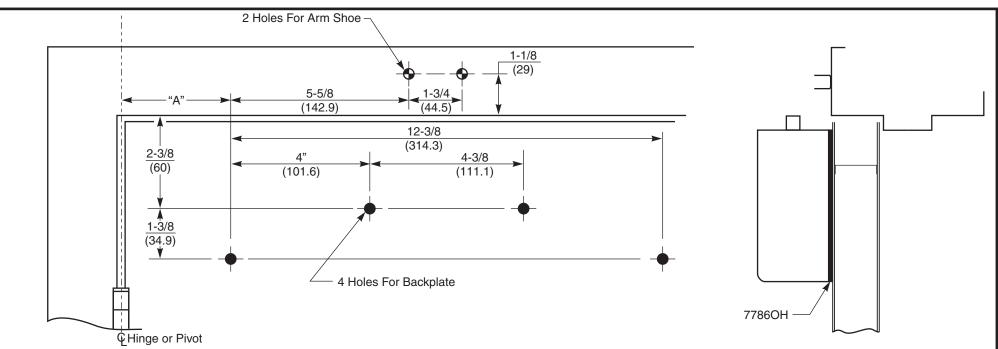
Fastener Preparation

#29 Drill, .136" (3.50mm) Dia.

Tap #8-32 UNC

#7 Drill, .201" (5.10mm) Dia.

Tap 1/4-20 UNC



Installer may have to counterbore backplate for sex-nut head clearance

NOTES:

- 1. Do not scale drawing.
- 2. Right hand door shown.
- 3. All dimensions given in inches (mm).

Caution: Door swing may be limited by door, frame, wall or hardware conditions (including closer projection).

Opening	Dimens	ion "A"
- C poining	inches	mm
To 100°	7-5/8	194
100° to 120°	6-5/8	168
120° to 150°	4-5/8	117
150° to 180°	4-1/8	105

Hollow-metal	doors	require	channel	or	box-type	reinfor	cement	when	thru-bolt	mount
is specified.										

Sex-bolts required for wood or plastic faced fire-door mounting.

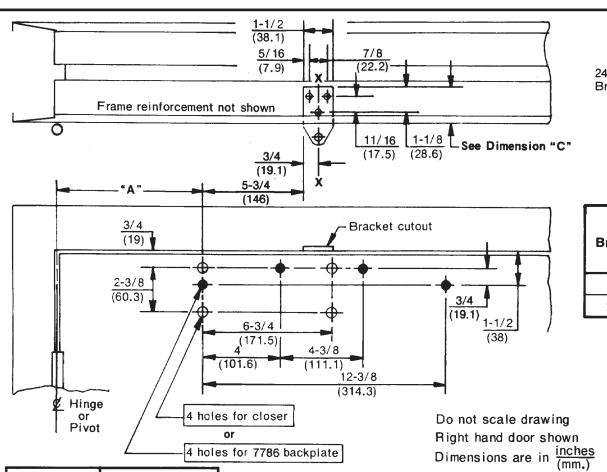
Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm) unless otherwise noted.

Preparation for Fasteners						
	Fasteners	Door or Frame	Drill Sizes			
	Solf Drilling gorow	Aluminum or Metal	No drill required			
Standard	Self-Drilling screw	Wood (see Note)	Pilot hole required 3/16" (4.30 mm)			
	1/4"-20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4"-20			
	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer			
Optional		Aluminum or Wood	3/8" (9.5 mm) through			
	Through-bolts and grommet nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer			

7500 and 7700 Series Door Closers with 77860H Back Plate For Clearance of Overhead Stop / Stop and Holder ASSA ABLOY

TEMPLATE NUMBER
7377-0111

REV DATE 12/21



Frame Frame
2403 or 2403¾— Frame reinforcement Recommended thickness:
Bracket .1793" (4.55mm.) minimum
"C" 1/4
Mortising Detail X - X (6.4)

		Dimen	Dimensi	ion "C"		
Bracket	Maxi	Maximum Mini		Minimum		mum
	inches	mm.	inches	mm.	inches	mm.
2403	2	51	1-1/2	38	2-1/4	57
2403¾	2-3/4	70	1 '''2	30	3	76

		——[4 hole	es for 7786 backplate Dimensions are in inches (mm.)			
Opening	Dime:		Caution: Door swing may be limited by door, frame, wa or hardware conditions (including closer projection).			
	inches	mm.				
To 100°	7-5/8	194	Hollow-metal doors require channel or box-type reinforce- ment when thru-bolt mount is specified.			
100° to 120°	6-5/8	168	Sex-bolts required for wood or plastic faced fire-door mounting.			
120° to 150°	4-5/8	117	Minimum thickness recommended for reinforcements in			
150° to 180°	4-1/8	105	hollow-metal doors and frames: .1046" (2.66mm.) unless			

otherwise noted.

105

4-1/8

150° to 180°

	Preparation for Fasteners							
	Fasteners	Door or Frame	Drill-Sizes					
5	#14 type "A" S.M. screw Arm: 1-1/4" (32mm.)	Wood	3/16" (4.30mm.)					
Standard	Ctoser: 2-3/4" (70mm.)	Aluminum	7/32" (5.50mm.)					
S	1/4-20 machine-screw	Metal	drill: #7 (.201" dia.) tap: 1/4-20					
lai	Sex-nuts and boits	Hollow- Metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) on door or transom-face opposite to closer					
Optional		Aluminum or Wood	3/8" (9,50mm.) through					
	Through-boits and grommet-nuts	AII	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep on door or transom-face opposite to closer					

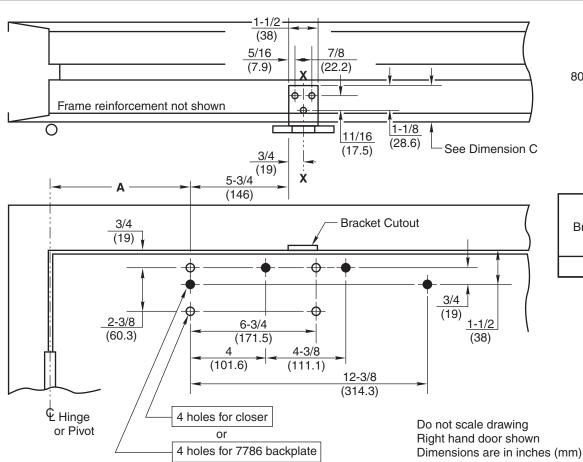
7500, 7700, 7700COU and 7700TEL Series Door Closers With 2403 or 2403-3/4 Bracket With or Without 7786 Backplate Regular Arm Installation With Non Hold Open Arm

RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7377-0103

12/21



E Hinge or Pivot						
Opening	_	nsion A"				
	inches	mm				
To 100°	7-5/8	194				
100° to 120°	6-5/8	168				
120° to 150°	4-5/8	117				
150° to 180°	4-1/8	105				

Caution: Door swing may be limited by door, frame, wall, or hardware conditions (including closer projection).

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66) unless otherwise noted.

Frame
80 Bracket — B — Frame reinforcement Recommended thickness: .1793" (4.55) minimum
C
Mortising Detail X-X

	Dimension "B"				Dimension "C'	
Bracket	Maximum		Minimum		Maximum	
	inches	mm	inches	mm	inches	mm
80	2	51	1-1/2	38	2-1/4	57

	Preparation for Fasteners				
Fasteners Door Fran			Drill Sizes		
ą	#14 type "A" S.M. screw	Wood	3/16" (4.30mm)		
Standard	Arm: 1-1/4" (32mm) Closer: 2-3/4 (70mm)	Aluminum	7/32" (5.50mm)		
S	1/4-20 machine-screw	Metal	drill: #7 (.201" dia) tap: 1/4-20		
	Sex-nuts and bolts	Hollow- Metal	9/32" (7.00mm) through; 3/8" (9.50mm) on door or transom-face opposite to closer		
Optional		Aluminum or Wood	3/8" (9.500mm) through		
ğ	Through-bolts and grommet-nuts	All	9/32" (7.00mm) through; 3/8" (9.50mm) dia. x 3/8" (9.500mm) deep on door or transom-face opposite to closer		

7500H, 7700H, and 7700HOSP Series Door Closers With 80 Bracket With or Without 7786 Backplate Regular Arm Installation With Hold Open Arm

TEMPLATE NUMBER

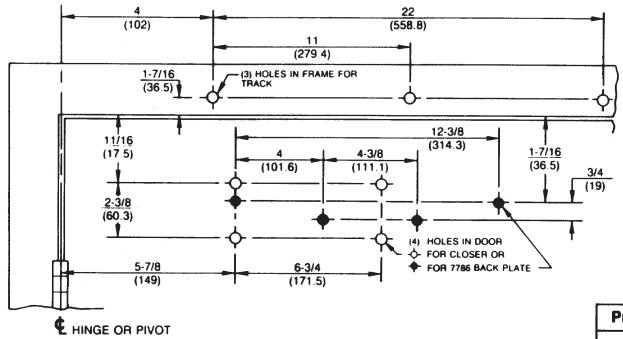
DATE 12/21

7377-0107

RIXSON

ASSA ABLOY

IMPORTANT: From centerline of pivot point to end of track is 261/2" (673mm)



- Right hand door shown.
- Do not scale drawing.
- Dimensions are given in inches
- Closer mounted with sex nuts requires that door silencers or 7786 back plate be used.
- Minimum ceiling clearance for unit is 2" (50mm.).
- Maximum door opening Non Hold Open with Spring Buffer - 110° Non Hold Open without Spring Buffer - 180° Hold Open - 110°

Preparation for Fasteners			
Fasteners	Door or Frame	Drill-Sizes	
#14 type "A" S.M. screw	Wood	3/16* (4.30mm.)	
¼ *-20 machine- screw	Metal	drill: #7 (.201*) tap: ¼ *-20	
Sex-nuts and bolts (Optional)	Hollow- Metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) door-face opposite to closer	
	Aluminum or Wood	3/8" (9.50mm.) through	
Through-bolts and grommet-nuts (Optional)	All	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep door- face opposite to closer	

7700ST/7500ST Series Non Hold Open Door Closer 7700ST-H/7500ST-H Series Hold Open Door Closer **Hinge Side Slide Track Application** With or Without 7786 Backplate

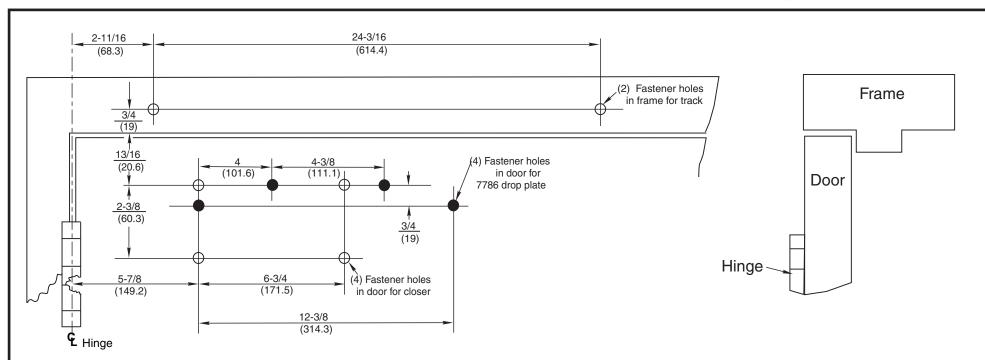
RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7377-0501 DATE

Approved 2022-02-25

12/21



Preparation fo	• •	
Fasteners	Door or Frame	Drill Sizes
#14 type "A" S.M. screw	Wood	7/32"(5.56mm)
1/4" -20 machine screw	Metal	drill: #7 (.201") tap: 1/4"-20
Sex-nuts and bolts	Hollow Metal	9/32" (7.00mm) through 3/8" (9.50mm) door-face opposite to closer
	Aluminum or Wood	3/8" (9.50mm) through
Through-bolts and grommet-nuts (Optional)	All	9/32" (7.00mm) through; 3/8" (9.50mm) dia. x 3/8" (10mm) deep door- face opposite to closer

- Right hand door is shown.
- Do not scale drawing.
- Minimum door width 26" (660.4mm).
- .1046 (2.7mm) minimum thickness recommended for hollow metal door and frame reinforcement.
- From centerline of hinge to end of track 27-3/8" (695.3mm).
- Minimum ceiling clearance for track is 1-1/8" (26.6mm).
- Closer mounted with sex nuts requires the use of door silencers.
- Dimensions are given in inches (mm)
- Maximum frame reveal is 1/8" (3mm).

Maximum door opening:

Non-Hold Open

110°- recommended with cushion stop in track. 180°- without cushion stop.

Hold Open

110°- recommended with cushion stop in track. 135°-without cushion stop.

 Use of auxillary door stop is recommended to prevent damage to door, frame, and hinge when severe or abusive conditions are expected.

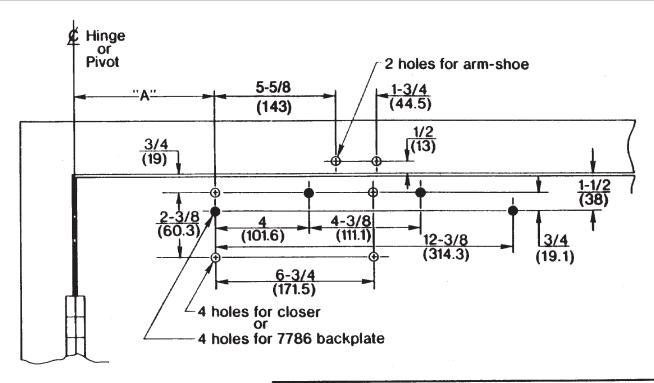
7540ST & 7740ST Non Hold Open- Hinge Mounted Installation 7540STH & 7740STH Hold Open- Hinge Mounted Installation Door Closer with Slide Track With or Without 7786 Drop Plate For Use on Doors with 4 " or 5" Wide Butt Hinges NORTON RIXSON ASSA ABLOY

TEMPLATE NUMBER **7377-0551**

REV DATE 12/21

Opening	Dimension "A"		
	inches	mm.	
To 100°	7-5/8	194	
100° to 120°	6-5/8	168	
120° to 150°	4-5/8	117	
150° to 180°	4-1/8	105	

- Caution: Door swing may be limited by door, frame, wall or hardware conditions (including closer projection).
- . Do not scale drawing.
- · Right hand door shown.
- Dimensions are given in inches (mm).
- Minimum ceiling clearance for closer arm: 1" (25mm).
- Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.
- Through bolts required for wood or plastic faced fire-door mounting.
- Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm) unless otherwise noted.



- ★ Sex nut head [9/16"(15.00mm.) diameter x 1/8"(3mm.) high] has to be mortised in door or stop for top two closer or backplate fasteners.
- **Grommet nut head (5/8"(16.00mm.) diameter x 1/8"(3mm.) high] has to be mortised in door or stop for top two closer or holder backplate fasteners.

	PREPARATION FOR FASTENERS				
Fasteners Door or Frame		Door or Frame	Drill Sizes		
ANDARD	#14 type "A" S.M. Screw Arm: 1-1/4" (32mm.) Closer: 2-3/4" (70mm.)	Wood	3/16" (4.30mm.)		
STAI	1/4-20 Machine Screw	Metal	#7 [.201" (5.10mm.) dia.] drill 1/4-20 UNC tap		
	Sex-nuts and bolts	Hollow- metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) face opposite to closer.		
OPTIONAL	(See mortising note*)	Aluminum or Wood	3/8" (9.50mm.) through.		
OPTI	Through-bolts and grommet-nuts (See mortising note**)	All	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. X 3/8" (10mm.) deep on face opposite to closer.		

7580 and 7780 Series Door Closers
With or Without 7786 Backplate
Regular Arm Installation With Non Hold Open Arm

ASSA ABLOY

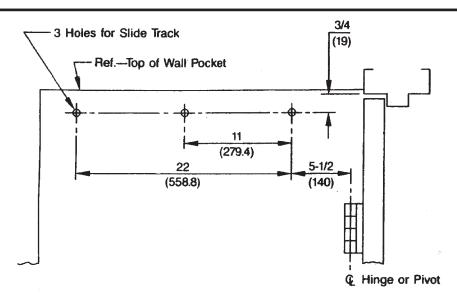
TEMPLATE NUMBER

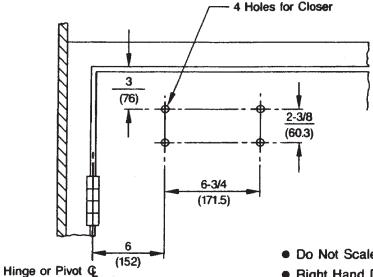
REV DATE

7377-0110

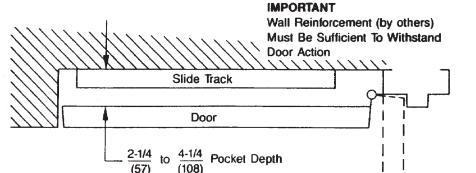
Approved 2022-02-25

12/21





- Do Not Scale Drawing
- Right Hand Door Shown
- Dimensions Are Given In Inches (Millimeters)



Closer Sizing Chart		
Door Width	Closer	
Up to $\frac{42''}{(1.07m)}$	7706STP	
43" to 48" (1.09m to 1.22m)	7706EP-STP	

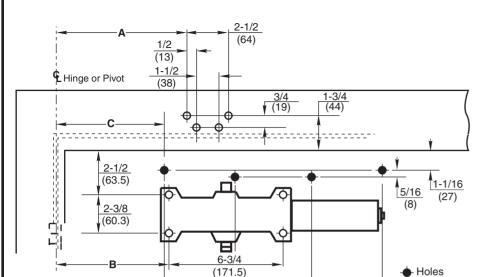
PREPARATION FOR FASTENERS					
TYPE OF FASTENER	DOOR OR FRAME	PREPARATION			
#14 Type "A" Sheet Metal Screw	Wood	7/32" (5.5mm)			
1/4-20 Machine Screw	Hollow Metal	#7(.201 dia.) or 5.10mm. drill-1/4-20 tap			
SNB (Sex Nut & Bolt) (Optional)	Hollow Metal	9/32" (7.00mm) thru 3/8" (9.50mm) door face Opposite to closer			
	Aluminum or Wood	3/8" (9.50mm) thru			
TBGN (Thru Bolt & Grammet Nut) (Optional)	All	9/32" (7.00mm) thru 3/8" (9,50mm) diameter 3/8" (10mm) deep, door Face opposite to closer			

7706STP or 7706EP-STP Series Closers Slide Track Closer for 90° Wall Pocket Installation For Pocket Depths 2-1/4" to 4-1/4" (57mm to 108mm) (See Chart for Closer Sizing)

RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7377-0505 12/21



4-3/4

(120.6)

12-3/4 (324)

(101.6)

NOTES:

- 1. Do not scale drawing.
- 2. Left hand door shown.
- 3. Dimensions are in inches (mm).
- 4. Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.
- 5. Sex-bolts required for wood or plastic faced fire-door mounting.
- 6. Minimum thickness recommended for reinforcements in hollow- metal doors and frames: .0146" (2.66mm).
- 7. Hold Open function "T" Suffix, is not permitted in a fire-door assembly.
- 8. Maximum width hinges for this template are 5" (127mm).

Opening	Dim. "A"		Dim. "B"		Dim. "C"	
*	inches	mm	inches	mm	inches	mm
85°	10-3/4	273	10-1/4	260.5	10	254
90°	9-7/8	251	9-3/8	238	9-1/8	232
95°	9-1/4	235	8-3/4	222.5	8-1/2	216
100°	8-1/2	216	8	203	7-3/4	197
105°	8	203	7-1/2	190.5	7-1/4	184
110°	7-3/8	187.5	6-7/8	174.5	6-5/8	168

★Template dimensions are for hold open/door stop within †2° of charted door openings. Doors may overtravel up to 5° beyond the rest position.

Top View Typical Installation					
Left Hand Door Stop	Right Hand Door Stop				
Pinion Flat	Right Hand Pinion Flat				
For Adjustment Instruction	ns See inside Closer Cover				

Fasteners	Frame	Door	Drill-Sizes
#14 Type A Sheet Metal Screw	Wood	none	3/16" (4.8 mm) Pilot Hole Required
1/4" - 20 machine screw	Metal	none	Drill: #7 (0.201" dia.) or 5.1mm Tap: 1/4" - 20
Sleeve nuts and bolts	none	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer
		Aluminum or Wood	3/8" (9.5 mm) through

CLP-7500, CLP-7700 CloserPlus Arm or
CPS-7500, CPS-7700 CloserPlus Spring™ Arm
Parallel Arm Application x 2019L Flush Transom Bracket With or Without 7788 Drop Plate
Arm Function: Stop Only or Stop & Hold Open ("T" or "R" Suffix)
Power Size 1-649979560; 2022408-25 6 for 7700

For 7788

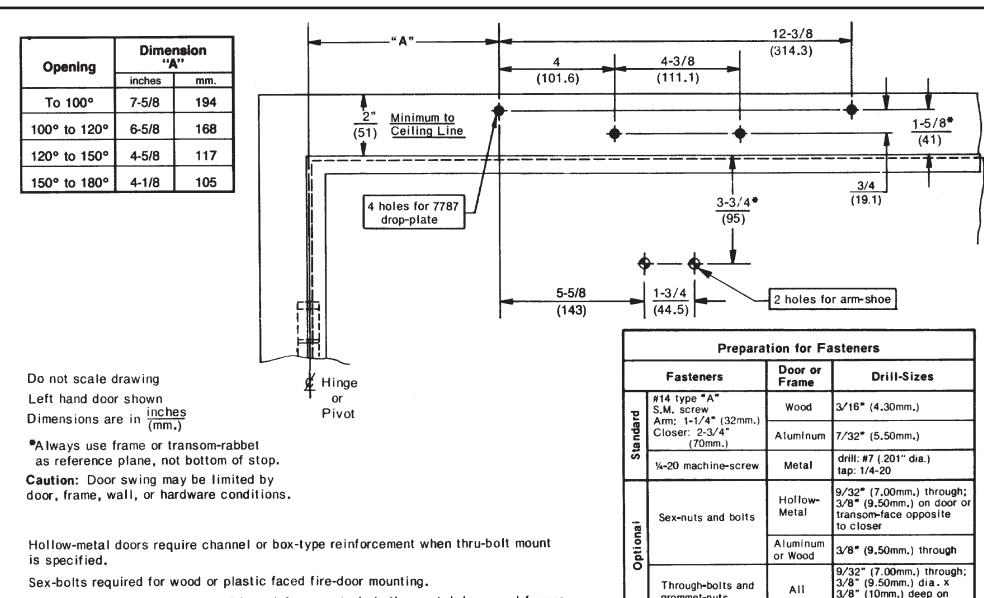
Drop Plate



TEMPLATE NUMBER 7377-1303

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12/21



(J)7500, (J)7500H, JL7500, JL7500H, (J)7700, (J)7700H, JL7700, JL7700H, J7730, and J7730H Series Door Closers With 7787 Drop Plate Top Jamb Installation With Non Hold Open or Hold Open

Minimum thickness recommended for reinforcements in hollow-metal doors and frames:

.1046" (2.66mm.) unless otherwise noted.

ASSA ABLOY

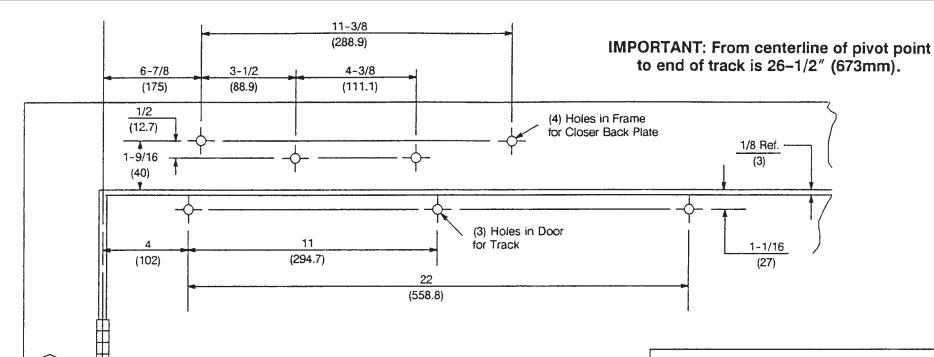
door or transom-face opposite to closer

RIXSON

TEMPLATE NUMBER 7377-0152

grommet-nuts

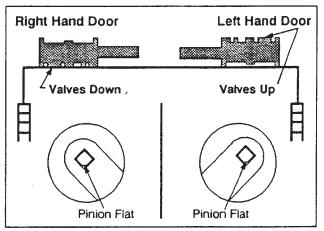
12/21



- Right hand door shown.
- Do not scale drawing.
- inches • Dimensions are given in (mm.)
- Minimum ceiling clearance for unit is 4-5/8 (118mm).
- Maximum door opening
 - Non Hold Open with Spring Buffer

© HINGE OR PIVOT

- Non Hold Open without Spring Buffer -180° -110°
- Hold Open



Preparation for Fasteners				
Fasteners	Door or Frame	Drill-Sizes		
#14 type "A" S.M. screw	Wood	7/32" (5.5mm)		
1/4"-20 machine- screw	Metal	drill: #7 (.201") tap: 1/4"-20		
Sex-nuts and bolts (Optional)	Hollow- Metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) door-face opposite to closer		
(Aluminum or Wood	3/8" (9.50mm.) through		
Through-bolt and grommet-nuts (Optional)	All	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep door- face opposite to closer		

J7700ST/J7500ST Series Non Hold Open Door Closer J7700ST-H/J7500ST-H Series Hold Open Door Closer **Hinge Side Top Jamb Slide Track Application** With Backplate No. 7786JP

-110°

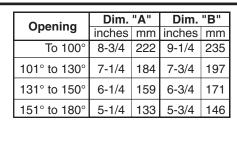
RIXSON

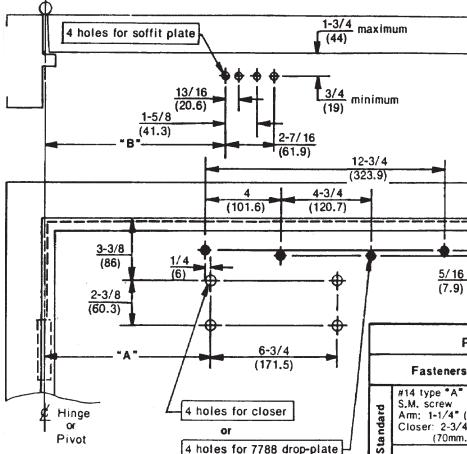
ASSA ABLOY

TEMPLATE NUMBER 7377-0515

12/21

5/8 maximum





Preparation for Fasteners Door or

1-7/8

(48)

14-20 machine-screw

Sex-nuts and bolts

Through-bolts and

grommet-nuts

Optional

Frame #14 type "A" Wood 3/16* (4.30mm.) S.M. screw Arm: 1-1/4" (32mm.) Closer: 2-3/4" Aluminum 7/32" (5.50mm.) (70mm.)

Metal

Hollow-

Aluminum

AIL

or Wood

Metal

Caution: Door swing may be limited by door, frame, wall, or hardware conditions.

Do not scale drawing

Left hand door shown

Dimensions are in inches (mm.)

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.

P7500 and P7700 Series Door Closers With 2018B Soffit Plate With or Without 7788 Drop Plate Parallel Arm Installation With Non-Hold Open Arm RIXSON

Drill-Sizes

drill: #7 (.201" dia.)

9/32" (7.00mm.) through;

3/8" (9.50mm.) on door or

transom-face opposite

3/8" (9,50mm.) through

3/8" (9.50mm.) dia. x

3/8" (10mm.) deep on

door or transom-face

opposite to closer

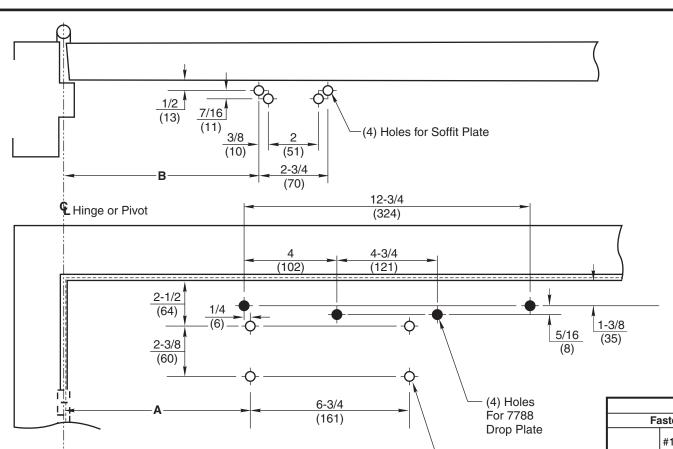
9/32" (7.00mm.) through;

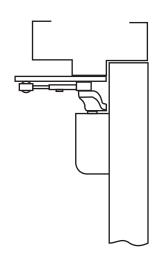
tap; 1/4-20

to closer

ASSA ABLOY

TEMPLATE NUMBER 7377-0204 DATE 12/21





Opening	Dim. "A"		Dim. "B"	
Opening	inches	mm	inches	mm
To 100°	8-3/4	222	9-1/4	235
101° to 130°	7-1/4	184	7-3/4	197
131° to 150°	6-1/4	159	6-3/4	171
151° to 180°	5-1/4	133	5-3/4	146

	Preparation for Fasteners				
Fa	esteners	Door or Frame	Drill-Sizes		
#14 SDST Type BSD or #14 SMS Type A		Wood	3/16" (5 mm) Pilot Hole Required		
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20		
	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (10 mm) door or transom-face opposite to closer		
Optional		Aluminum or Wood	3/8" (10 mm) through		
	Through-bolts and grommet-nuts	All	9/32" (7 mm); 3/8" (10 mm) dia. x 3/8" (10 mm) deep on door or transom-face opposite to closer		

- 1. Do not scale drawing
- 2. Left hand door shown
- 3. Dimensions are in inches (mm).
- Caution: Door swing may be limited by door, frame, wall, or hardware conditions.
- 5. Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.
- 6. Sex-bolts required for wood or plastic faced fire-door mounting.
- Minimum thickness recommended for reinforcements in hollowmetal doors and frames: .1046 (3mm) unless otherwise noted.

P7500 and P7700 Series Door Closers With or Without 7788 Drop Plate Parallel Arm Installation With Non-Hold Open Arm

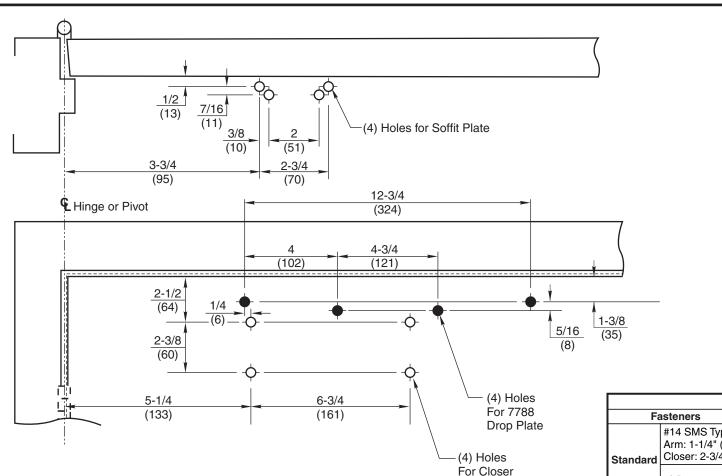
(4) Holes For Closer

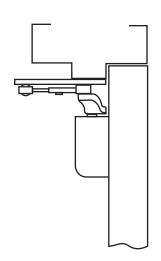
RIXSON

ASSA ABLOY

TEMPLATE NUMBER **7377-0201**

REV DATE 12/21





- 1. Do not scale drawing
- 2. Left hand door shown
- 3. Dimensions are in inches (mm).
- Caution: Door swing may be limited by door, frame, wall, or hardware conditions.
- 5. Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.
- 6. Sex-bolts required for wood or plastic faced fire-door mounting.
- 7. Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046 (2.66mm) unless otherwise noted.

	Preparation for Fasteners				
Fa	asteners	Door or Frame	Drill-Sizes		
Standard	#14 SMS Type A Arm: 1-1/4" (32mm) Closer: 2-3/4" (70mm)	Wood	3/16" (4.8 mm) Pilot Hole Required		
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4 - 20		
	Sex nuts and bolts		9/32" (7 mm) through; 3/8" (9.5 mm) door or transom-face opposite to closer		
Optional		Aluminum or Wood	3/8" (9.5 mm) through		
	Through-bolts and grommet-nuts	All	9/32" (7 mm)thru; 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door or transom-face opposite to closer		

P7500 or P7700 Series Door Closers x 7701-5A Arm Assembly For 180° Door Swing Using Wide Throw Hinges - 8" (200mm) Max.
With or Without 7788 Drop Plate
Non-Hold Open Parallel Arm Application

Non-Hold Open Parallel Arm Application
Door Closer Sizes: 7500 (1 thru 6); 7700 (2, 3, 4, 5, or 6)

TEMPLATE NUMBER

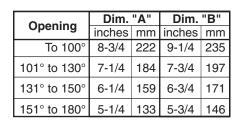
REV DATE

RIXSON

ASSA ABLOY

7377-0214

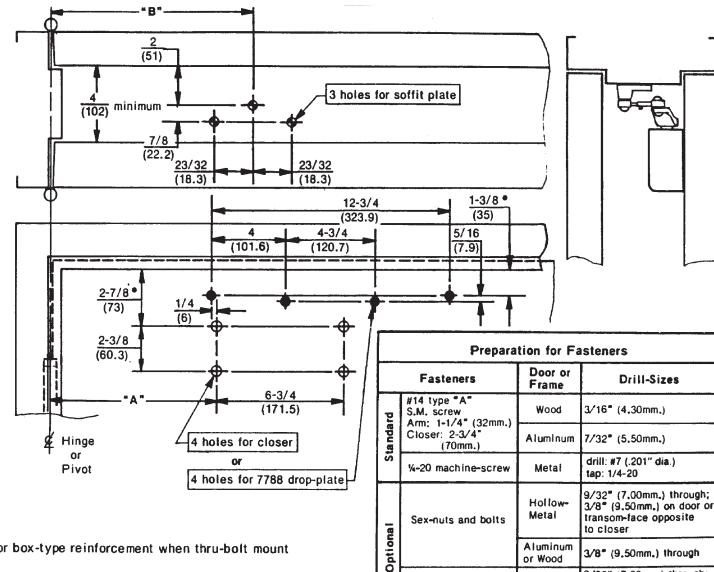
12/21



Do not scale drawing Left hand door shown Dimensions are in inches (mm.)

Caution: Door swing may be limited by door, frame, wall, or hardware conditions.

Measure from soffit-plate mounting surface. 2018 soffit-plate may be applied onto frame-rabbet when frame-stop-height does not exceed 5/8" (16mm.).



Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.

> P7500 and P7700 Series Door Closers With 2018 Soffit Plate With or Without 7788 Drop Plate Parallel Arm Installation With Non-Hold Open Arm

RIXSON

9/32" (7.00mm.) through:

3/8" (9.50mm.) dia-x

3/8" (10mm.) deep on

door or transom-face

opposite to closer

ASSA ABLOY

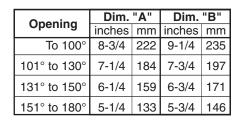
TEMPLATE NUMBER 7377-0203

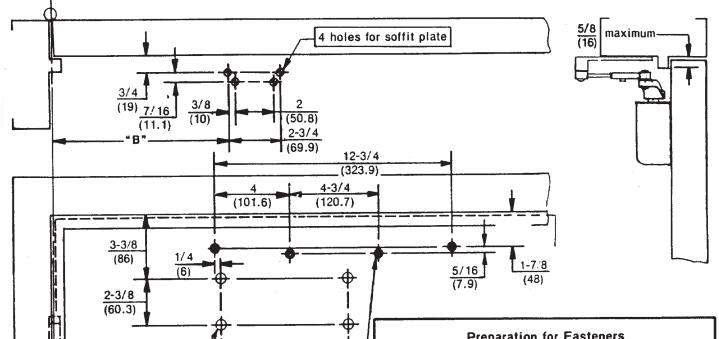
AII

Through-bolts and

grommet-nuts

12/21





6-3/4 (171.5)

4 holes for closer

4 holes for 7788 drop-plate

Do not scale drawing Left hand door shown Dimensions are in $\frac{\text{inches}}{(\text{mm.})}$

Caution: Door swing may be limited by door, frame, wall, or hardware conditions.

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Hinge

Pivot

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.

Preparation for Fasteners			
	Fasteners	Door or Frame	Drill-Sizes
ē	#14 type "A" S.M. screw Arm; 1-1/4" (32mm.)	Wood	3/16" (4,30mm.)
Standard	Closer: 2-3/4" (70rnm.)	Aluminum	7/32* (5.50mm.)
St	%-20 machine-screw	Metal	drill: #7 (201" dia) tap: 1/4-20
lat	Sex-nuts and bolts	Hollow- Metal	9/32" (7,00mm.) through; 3/8" (9,50mm.) on door or transom-face opposite to closer
ption	Optiona	Atuminum or Wood	3/8" (9,50mm.) through
	Through-boits and grommet-nuts	Ali	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep on door or transom-lace opposite to closer

P7500 and P7700 Series Door Closers
With 2018D Soffit Plate
With or Without 7788 Drop Plate
Parallel Arm Installation With Non-Hold Open Arm

TEMPLATE NUMBER

PLATE NUMBER REV DATE 7377-0205 3 12/21

ASSA ABLOY

NORTON RIXSON

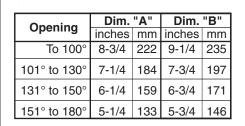
14-20 machine-screw

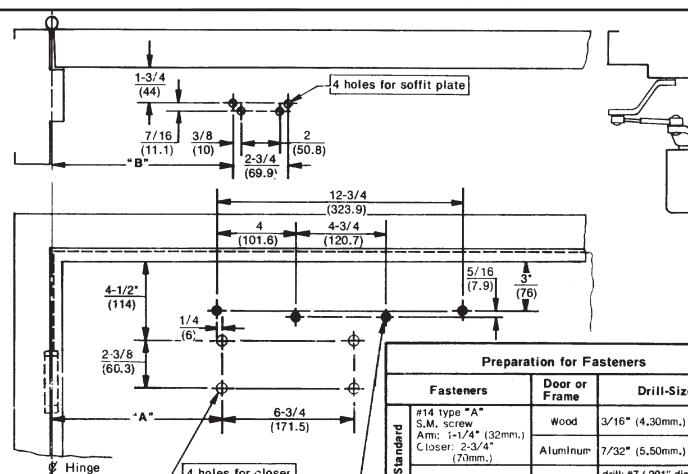
Sexercits and bolts

Through-polts and

grommet-nuts

Optional





4 holes for closer

4 holes for 7788 drop-plate

Do not scale drawing Left hand door shown Dimensions are in $\frac{\text{inches}}{(mm.)}$

Caution: Door swing or closer mounting may be limited by door, frame, wall, or hardware conditions.

Measure from soffit-plate mounting surface. This soffit plate can be applied to frame-rabbet in opening with narrow, blade or removable stop.

Hollow-metal upors require channel or box-type reinforcement when thru-bott mount is specified.

Hinge

Pivot

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046 ' (2.66mm.) unless otherwise noted.

> P7500 and P7700 Series Door Closers With 2018S Soffit Plate With or Without 7788 Drop Plate Parallel Arm Installation With Non-Hold Open Arm

RIXSON

Drill-Sizes

drill: #7 (.201" dia.)

9/32" (7.00mm.) through;

3/8" (9.50mm.) on door or

transom-face opposite

3/8" (9.50mm.) through

9/32" (7.00mm.) through;

3/8" (9.50mm.) dia. x

3/8" (10mm.) deep on

door or transom-face

opposite to closer

tap: 1/4-20

to closer

ASSA ABLOY

TEMPLATE NUMBER 7377-0207

Metal

Hollow-

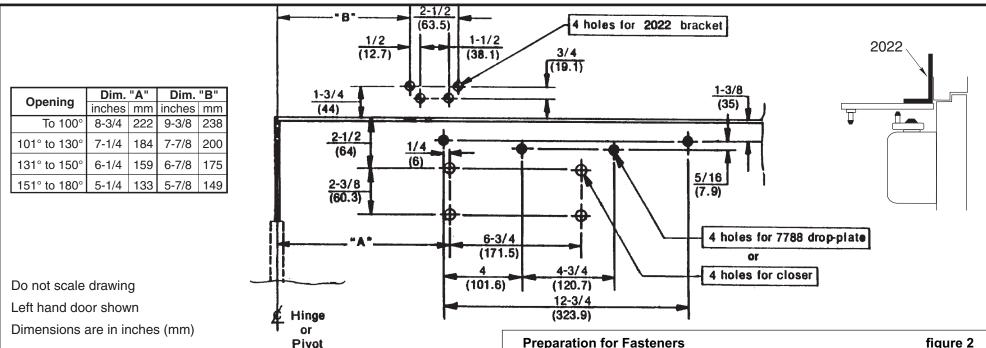
Aiuminum

or Wood

AII

Metal

12/21



Caution: Door swing may be limited by door, frame, wall, or hardware conditions.

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm) unless otherwise noted.

Always consult door/frame manufacturer for fastener compatibility with the material of their door/frame.

Preparation for Fasteners figure 2				
	Fasteners	Door or Frame	Drill-Sizes	
	0.16 D.111.		No drill required	
Standard	Self-Drilling Screw	Wood	3/16" (4.30 mm) Pilot hole required.	
1/4" - 20 machine screw		Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20	
	Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer	
Optional		Aluminum or Wood	3/8" (9.5 mm) through	
	Through-bolts and grommet-nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer	

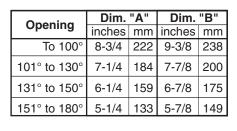
P7500 and P7700 Series Door Closers
With 2022 Bracket
With or Without 7788 Drop Plate
Parallel Arm Installation With Non-Hold Open Arm

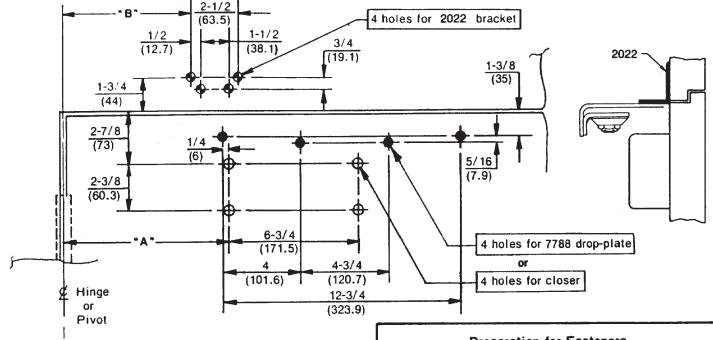
RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7377-0206

3 12/21





Do not scale drawing
Left hand door shown

Dimensions are in $\frac{\text{inches}}{(mm_{\bullet})}$

Caution: Door swing may be limited by door, frame, wall, or hardware conditions.

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.

	Preparation for Fasteners			
	Fasteners	Door or Frame	Drill-Sizes	
ī.	#14 type "A" S.M. screw Arm: 1-1/4" (32mm.)	Wood	3/16* (4.30mm.)	
Standard	Closer: 2-3/4" (70mm.)	Aluminum	7/32" (5.50mm.)	
1/4-20 machine-screw		Metal	dritl: #7 (.201" dia.) tap: 1/4-20	
ia i	Sex-nuts and boits	Hollow- Metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) on door or transom-face opposite to closer	
Optiona	Aluminum or Wood	3/8" (9,50mm.) through		
0	Through-bolts and grommet-nuts	All	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. × 3/8" (10mm.) deep on door or transom-face opposite to closer	

P7500H or P7700H Series Door Closers
With 1628H x 2022 Brackets
With or Without 7788 Drop Plate
Parallel Arm Installation With Hold Open

(opposite to hinge side mounting).

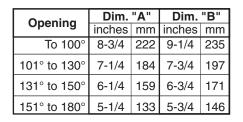
NORTON RIXSON

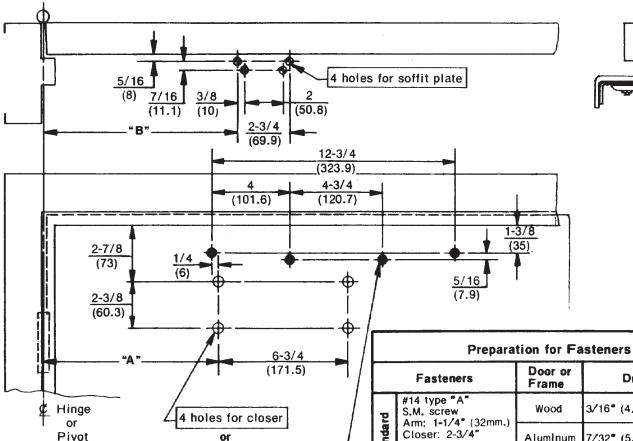
ASSA ABLOY

TEMPLATE NUMBER **7377-0212**

REV DATE 12/21

1-3/8 (35)





4 holes for 7788 drop-plate

Do not scale drawing Left hand door shown Dimensions are in $\frac{\text{inches}}{(mm.)}$

Caution: Door swing may be limited by door, frame, wall, or hardware conditions.

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2,66mm.) unless otherwise noted.

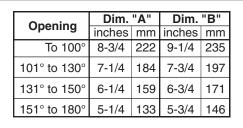
	Fasteners	Door or Frame	Drill-Sizes
ē	#14 type "A" S.M. screw Arm: 1-1/4" (32mm.)	Wood	3/16* (4.30mm.)
Standard	Closer: 2-3/4" (70mm.)	Aluminum	7/32* (5.50mm.)
S	%-20 machine-screw	Metal	drill: #7 (.201" dia.) tap: 1/4-20
iai	Sex-nuts and bolts	Hollow- Metal	9/32" (7,00mm.) through; 3/8" (9,50mm.) on door or transom-face opposite to closer
Optiona	'	Aluminum or Wood	3/8" (9.50mm.) through
0	Through-bolts and grommet-nuts	AII	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia.x 3/8" (10mm.) deep on door or transom-face opposite to closer

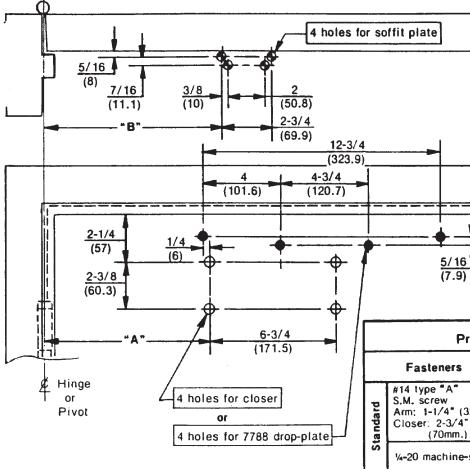
P7500H or P7700H Series Door Closers With or Without 7788 Drop Plate **Parallel Arm Installation With Hold Open** RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7377-0211

12/21





Preparation for Fasteners Door or **Drill-Sizes** Frame 3/16° (4.30mm.) Wood Arm: 1-1/4" (32mm.) 7/32" (5.50mm.) **Aluminum** drill: #7 (.201" dia.) Metal 14-20 machine-screw tap: 1/4-20 9/32" (7.00mm.) through; Hollow-3/8" (9.50mm.) on door or Metal transom-face opposite Sex-nuts and bolts to closer Optional

Aluminum

AIL

or Wood

Through-bolts and

arommet-nuts

3/4 (19.1)

Do not scale drawing Left hand door shown Dimensions are in inches (mm.)

Caution: Door swing may be limited by door, frame, wall, or hardware conditions.

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Sex-bolts required for wood or plastic faced fire-door mounting.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.

> P7580 and P7780 Series Door Closers With or Without 7788 Drop Plate Parallel Arm Installation With Non-Hold Open Arm

RIXSON

3/8" (9,50mm.) through

9/32" (7.00mm.) through;

3/8" (9.50mm.) dia. x

3/8" (10mm.) deep on

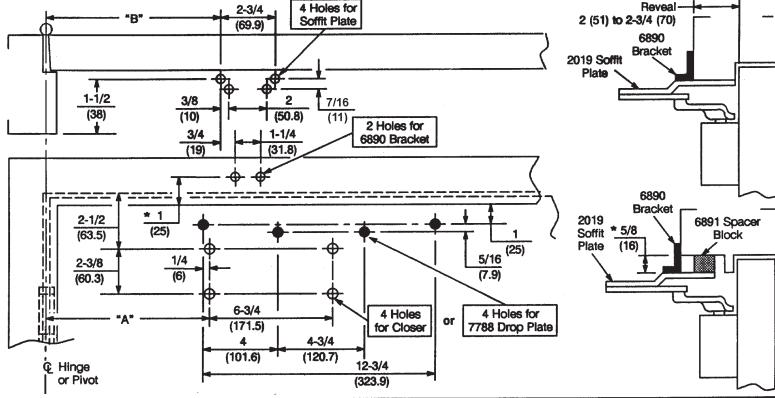
door or transom-face opposite to closer

ASSA ABLOY

TEMPLATE NUMBER 7377-0209

12/21

Caution: Door swing may be limited by door, frame, wall or hardware conditions.



Notes:

- 1. Do not scale drawing.
- 2. Left hand door shown.
- 3. Dimensions are in inches (mm).
- Hollow metal doors require channel or box type reinforcement when thru bolt mount is specified.
- Minimum thickness recommended for reinforcements in hollow metal doors and frames: .1046" (2.66mm) unless otherwise noted.

Door Opening	Dim. "A"	Dim. "B"
To 100°	8-3/4 (222)	9-1/4 (235)
101° to 130°	7-1/4 (184)	7-3/4 (197)
131° to 150°	6-1/4 (159)	6-3/4 (171)
151° to 180°	5-1/4 (133)	5-3/4 (146)

* This dimension must be located from the same surface that the 2019 soffit plate is mounted to.

Preparation for Fasteners				
Fasteners	To Apply	Door or Frame	Drill Sizes	
#14 x 1-1/4 (32mm) type		Wood	7/32" (5.50mm)	
"A" Sheet Metal screw	Soffit	Aluminum	7/32" (5.50mm)	
1/4-20 machine screw	Plate	Metal	drill: #7 (.201" dia.) tap: 1/4-20	
Sex nuts and bolts	Claser or	Hollow Metal	9/32" (7.00mm) thru; 3/8" (9.50mm) door face opposite to closer	
	Drop Plate	Aluminum or Wood	3/8" (9.50mm) thru	
Thru botts and grommet nuts	Optional	All	9/32" (7.00mm) thru; 3/8" (9.50mm) dia. x 3/8" (10mm) deep, door face opposite to closer	

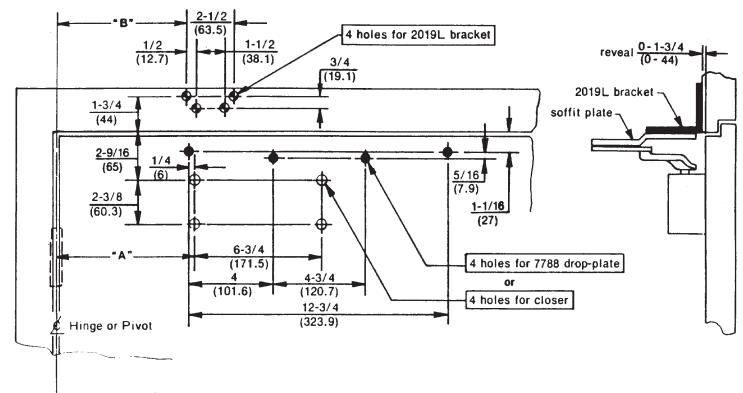
PR7500, PR7500H, PR7700 or PR7700H Series Door Closers
With 6890 Bracket
With or Without 7788 Drop Plate
Parallel Rigid Installation With Non Hold Open or Hold Open

NORTON RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7377-0253

REV DATE 12/21



Do not scale drawing Left hand door shown Dimensions are in $\frac{\text{inches}}{\text{(mm.)}}$

Caution: Door swing may be limited by door, frame, wall, or hardware condtions.

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.

Opening	Dim. "A"		Dim. "B"	
Opening	inches	mm	inches	mm
To 100°	8-3/4	222	9-3/8	238
101° to 130°	7-1/4	184	7-7/8	200
131° to 150°	6-1/4	159	6-7/8	175
151° to 180°	5-1/4	133	5-7/8	149

Preparation for Fasteners				
Fasteners	To Apply	Door or Frame	Drill Sizes	
	Closer,	Hollow-Metal	9/32" (7.00mm.) through 3/8" (9.50mm.) door-face opposite to closer	
	drop-plate, 2019L Bracket	Aluminum or wood	3/8" (9.50mm.) through	
#14 x 1¼" (32mm.)	Ci-1	Wood	3/16" (4.30mm.)	
type "A" S.M. screws	Special Application	Aluminum	7/32* (5.50mm.)	
%-20 machine screw	Optional	Metal	drill: #7 (.201" dia.) tap: 1/4-20	
Through-bolts and grommet-nuts	Optional	Ail	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep, door face opposite to closer.	

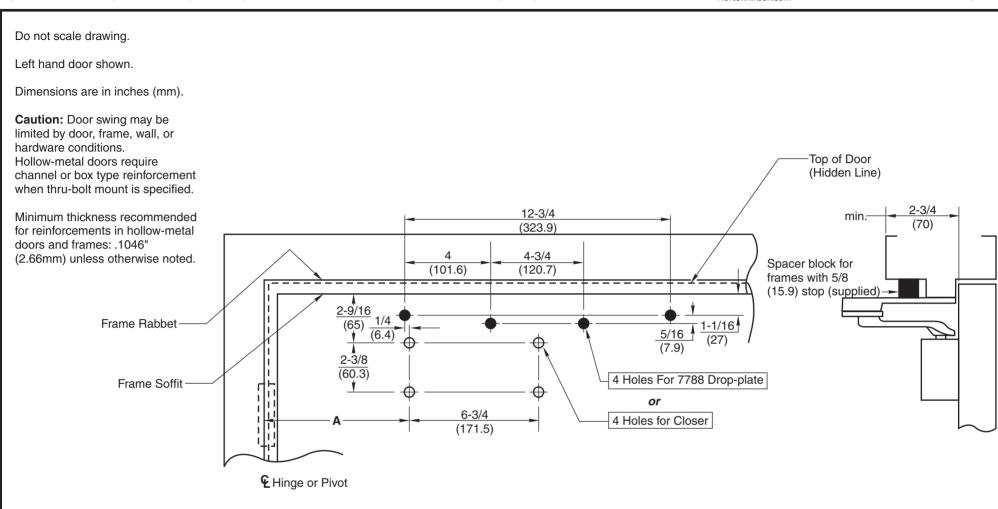
PR7500, PR7500H, PR7700 or PR7700H Series Door Closers
With 2019L Bracket
With or Without 7788 Drop Plate
Parallel Rigid Installation With Non Hold Open or Hold Open

RIXSON

ASSA ABLOY

TEMPLATE NUMBER
7377-0252

REV DATE 12/21



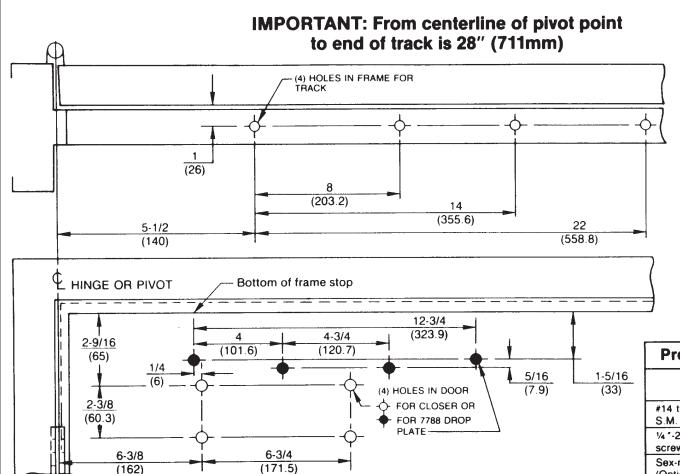
PR7500, PR7500H, PR7700, or PR7700H Series Door Closers With or Without 7788 Drop Plate Parallel Rigid Installation With Non Hold Open or Hold Open Approved 2022-02-25



TEMPLATE NUMBER 7377-0251

DATE

3 12/21



- Left hand door shown.
- Do not scale drawing.
- Dimensions are given in $\frac{\text{inches}}{\text{(mm.)}}$
- Maximum door opening:
 - Non Hold Open with buffer assembly in track - 100°
 - Non Hold Open without buffer assembly in track - 125°.
 Auxilliary stop required.
 - Hold Open 100°

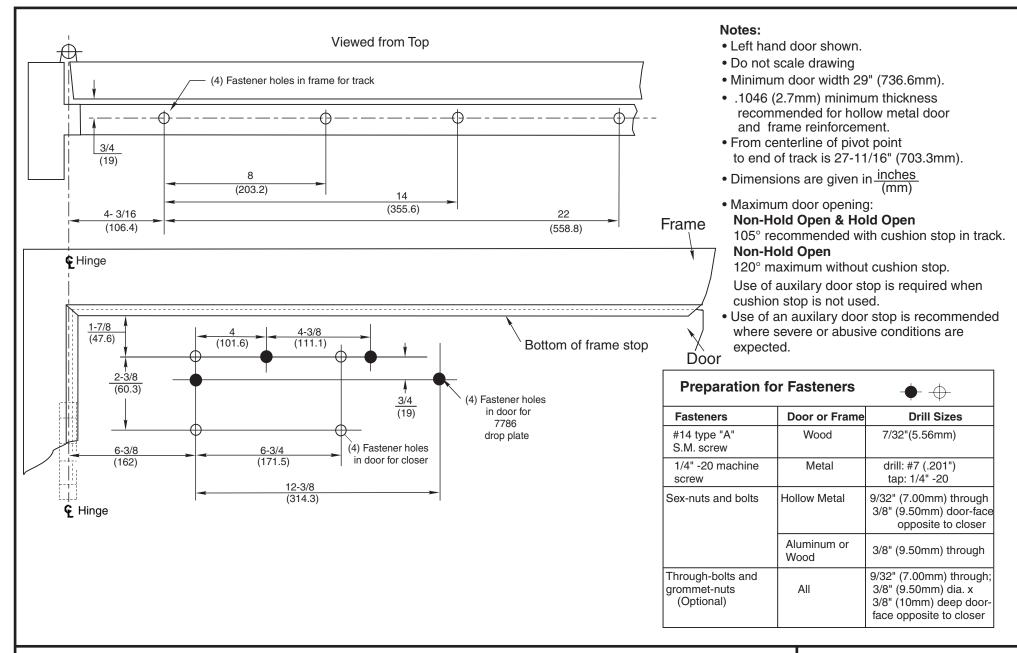
Preparation for Fasteners						
Fasteners	Door or Frame	Drill-Sizes				
#14 type "A" S.M. screw	Wood	7/32" (5.5mm)				
1/4 "-20 machine- screw	Metal	drill: #7 (.201*) tap: ¼ *-20				
Sex-nuts and bolts (Optional)	Hollow- Metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) door-face opposite to closer				
	Aluminum or Wood	3/8" (9.50mm.) through				
Through-bolts and grommet-nuts (Optional)	All	9/32" (7.00mm.) through 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep door- face opposite to closer				

PS7700ST/PS7500ST Series Non Hold Open Door Closer PS7700ST-H/PS7500ST-H Series Hold Open Door Closer Push Side Slide Track Application With or Without 7788 Drop Plate RIXSON

ASSA ABLOY

TEMPLATE NUMBER 7377-0520

TEV DATE 12/21



PS7540ST and PS7740ST Non Hold Open-Stop Mounted Installation
PS7540STH and PS7740STH Hold Open-Stop Mounted Installation
Door Closer with Slide Track
With or Without 7786 Drop Plate
For Use on Doors with 4½" or 5" Wide Butt Hinges

TEMPLATE NUMBER R

RIXSON

ASSA ABLOY

7377-0561

DATE 12/21

1-1/2 (38)

(19)

1-1/16 (27)

12-3/8

4-3/8

(111.1)

Door	Dimension "A"				
Opening	inches	mm.			
To 100°	7-5/8	194			
101° to 120°	6-5/8	168			
121° to 150°	4-5/8	117			
151° to 180°	4-1/8	105			

SPECIAL NOTE:

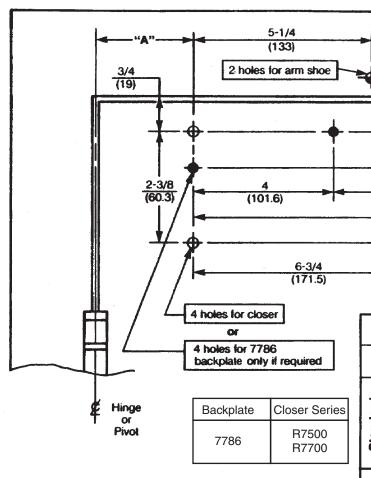
Hinge side frame reveal must not exceed 1/8 (3) or 5/16 (8) if 7786 back-plate is used.

Do Not Scale Drawing
Right Hand Door Shown
Dimensions are in inches (mrn.)

Caution: Door swing may be limited by door, frame, wall, or hardware conditions. (including closer projection).

Hollow-metal doors require channel or box-type reinforcement when thru-bolt mount is specified.

Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm.) unless otherwise noted.



	rieparation rastellers							
	Fasteners	Door or Frame	Drill-Sizes					
Standard	#14 type "A" S.M. screw Arm: 1-1/4" (32mm.) Closer: 2-3/4" (70mm.)	Wood	7/32"(5.50mm.)					
Str	1/4"-20 machine screw	Metal	drill: #7 (.201") tap: 1/4"-20					
Optional	Sex nuts and bolts	Hollow- Metal	9/32" (7.00mm.) through; 3/8" (9.50mm.) on door or transom-face opposite to closer					
		Aluminum or Wood	3/8" (9.50mm.) through					
Ö	Through-bolls and grommet-nuls	All	9/32" (7.00mm.) through; 3/8" (9.50mm.) dia. X 3/8" (10mm.) deep on door or transom-face opposite to closer					

Prenaration for Fasteners

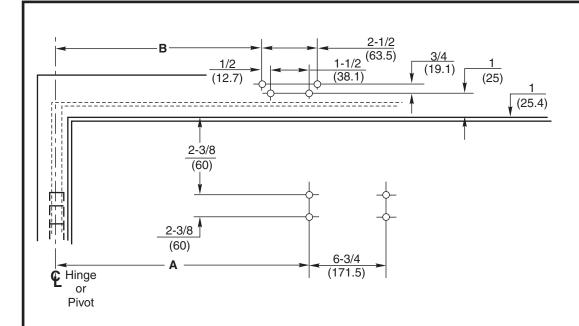
R7500 Series Rigid Arm, 7570 Series Security Door Closer or R7700 Series Rigid Arm, 7770 Security Door Closer Regular Arm Application With or Without 7786 Back Plate Power Sizes O for R7500 & 7570; 2, 3, 4, 5 or 6 for R7700 & 7770

TEMPLATE NUMBER 7377-0601

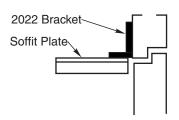
REV DATE **12/21**

RIXSON

ASSA ABLOY



Preparation for Fasteners								
Fasteners	Application	Door or Frame	Drill Sizes					
sex nuts and bolts	closer, drop plate 2022 bracket	hollow metal	9/32" (7.00mm) through 3/8" (9.50mm) door face opposite to closer					
2022 bidonet		aluminum or wood	3/8" (9.50mm) through					
through bolts and grommet nuts	optional	all	9/32" (7.00mm) through 3/8" (9.50mm) dia. x 3/8" (10mm) deep door face opposite to closer					



- Do not scale drawing.
- All dimensions shown in inches (mm) .
- Left hand door shown.
- Caution: Hollow metal doors require channel or box type reinforcement.
- Series UNI-7500H, UNI-7500BF-H, UNI-7700H door closers are furnished with a hold open arm function and are not permitted to be used on fire door assemblies.

	ased of the door assembles.								
Door O An		ling Dimensions ★							
Hold	Dead		Butts and Offset Pivots			Center	Pivots		
Open	Stop	Dimen	Dimension A Dimension B		Dimens	sion A	Dimens	sion B	
**		Inches	mm	Inches	mm	Inches	mm	Inches	mm
85°	90°	12-3/4	324	13	330	13-3/4	349	14	356
90°	95°	12	305	12-1/4	311	12-7/8	327	13-1/8	333
95°	100°	11-1/2	292	11-3/4	298	12-1/4	311	12-1/2	318
100°	105°	10-7/8	276	11-1/8	283	11-5/8	295	11-7/8	302
105°	110°	10-1/2	267	10-3/4	273	11-1/8	283	11-3/8	289
110°	115°	10	254	10-1/4	260	10-3/4	273	11	279

- ★ "A" and "B" dimensions measured from centerline of hinge or pivot.
- ★★ Door must be free to swing up to 5° beyond hold open position.

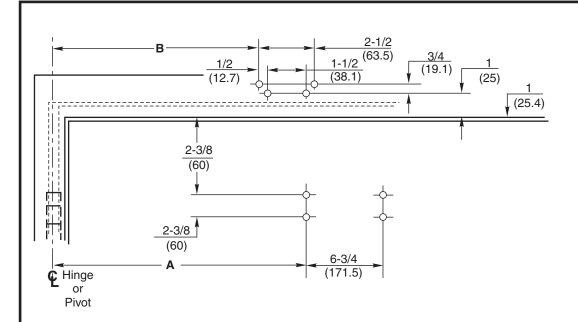
Unitrol® with 2022 Bracket Series UNI-7500, UNI-7700 or Series UNI-7500H, UNI-7700H Doors 33"-41" (0.85-1.00m) Wide Parallel Arm Installation Template —
Flush Partitions
Stop Only or Stop and Hold Open
Unitrol® Door Closer

ASSA ABLOY

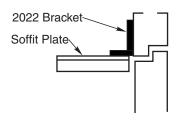
TEMPLATE NUMBER **7377-1355**

REV DATE 12/21

Approved 2022-02-25



Preparation for Fasteners								
Fasteners	Application	Door or Frame	Drill Sizes					
sex nuts and bolts	closer, drop plate 2022 bracket	hollow metal	9/32" (7.00mm) through 3/8" (9.50mm) door face opposite to closer					
		aluminum or wood	3/8" (9.50mm) through					
through bolts and grommet nuts	optional	all	9/32" (7.00mm) through 3/8" (9.50mm) dia. x 3/8" (10mm) deep door face opposite to closer					



- Do not scale drawing.
- All dimensions shown in inches (mm) .
- Left hand door shown.
- Caution: Hollow metal doors require channel or box type reinforcement.
- Series UNI-7500H, UNI-7500BF-H, UNI-7700H door closers are furnished with a hold open arm function and are not permitted to be used on fire door assemblies.

	Door Opening Angle					ions★			
Hold	Dead		Butts and Offset Pivots				Center	Pivots	
Open	Stop	Dimen	Dimension A Dimension B		Dimen	sion A	Dimens	sion B	
**		Inches	mm	Inches	mm	Inches	mm	Inches	mm
85°	90°	10-1/4	260	10-5/8	270	11-1/4	286	11-5/8	295
90°	95°	9-5/8	244	10	254	10-1/2	267	10-7/8	276
95°	100°	9-1/8	232	9-1/2	241	10	254	10-3/8	264
100°	105°	8-3/4	222	9-1/8	232	9-1/2	241	9-7/8	251
105°	110°	8-3/8	213	8-3/4	222	9-1/8	232	9-1/2	241
110°	115°	8	203	8-3/8	213	8-3/4	222	9-1/8	232

- ★ "A" and "B" dimensions measured from centerline of hinge or pivot.
- ★★ Door must be free to swing up to 5° beyond hold open position.

Unitrol® with 2022 Bracket Series UNI-7500, UNI-7700 or Series UNI-7500H, UNI-7700H Doors 28"-32" (0.70-0.80m) Wide Parallel Arm Installation Template —
Flush Partitions
Stop Only or Stop and Hold Open
Unitrol® Door Closer

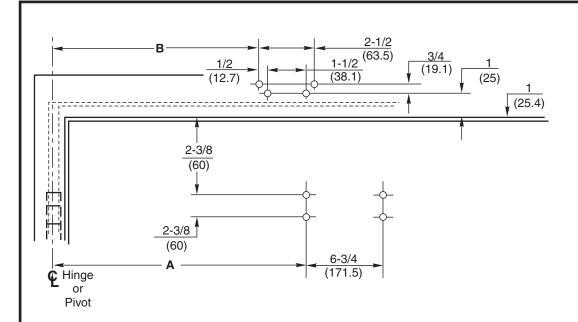
NORTON RIXSON

ASSA ABLOY

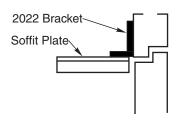
TEMPLATE NUMBER R

7377-1354

12/21



Preparation for Fasteners								
Fasteners	Application	Door or Frame	Drill Sizes					
sex nuts and bolts	closer, drop plate 2022 bracket	hollow metal	9/32" (7.00mm) through 3/8" (9.50mm) door face opposite to closer					
		aluminum or wood	3/8" (9.50mm) through					
through bolts and grommet nuts	optional	all	9/32" (7.00mm) through 3/8" (9.50mm) dia. x 3/8" (10mm) deep door face opposite to closer					



- Do not scale drawing.
- All dimensions shown in inches (mm) .
- Left hand door shown.
- Caution: Hollow metal doors require channel or box type reinforcement.
- Series UNI-7500H, UNI-7500BF-H, UNI-7700H door closers are furnished with a hold open arm function and are not permitted to be used on fire door assemblies.

Door O An		Dimensions★							
Hold	Dead		Butts and Offset Pivots				Center	Pivots	
Open	Stop	Dimension A Dimension B		Dimens	sion A	Dimens	sion B		
**		Inches	mm	Inches	mm	Inches	mm	Inches	mm
85°	90°	14-7/8	378	15-1/4	387	15-7/8	403	16-1/4	413
90°	95°	14	356	14-3/8	365	15	381	15-3/8	391
95°	100°	13-3/8	340	13-3/4	349	14-1/4	362	14-5/8	371
100°	105°	12-3/4	324	13-1/8	333	13-5/8	346	14	356
105°	110°	12-1/4	311	12-5/8	321	13	330	13-3/8	340
110°	115°	11-7/8	302	12-1/4	311	12-1/2	318	12-7/8	327

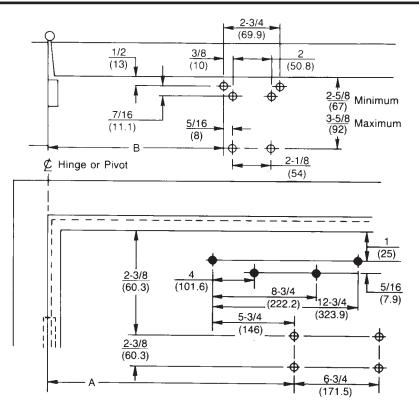
- ★ "A" and "B" dimensions measured from centerline of hinge or pivot.
- ★★ Door must be free to swing up to 5° beyond hold open position.

Unitrol® with 2022 Bracket Series UNI-7500, UNI-7700 or Series UNI-7500H, UNI-7700H Doors 42"-48" (1.05-1.20m) Wide Parallel Arm Installation Template —
Flush Partitions
Stop Only or Stop and Hold Open
Unitrol® Door Closer

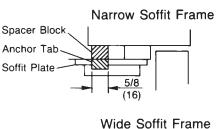
Norton

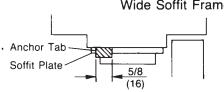
ASSA ABLOY

TEMPLATE NUMBER **7377-1356**



→ 7788 drop plate mounting holes only





Notes:

- Do not scale drawing.
- All dimensions shown in inches (mm.).
- Left hand door shown.
- Caution: Hollow metal doors require channel or box type reinforcement.

Preparation for Fasteners								
Fasteners	Application	Door or Frame	Drill Sizes					
Sex-nuts and bolts Closer Drop plate		Hollow Metal	9/32" (7.00mm.) through 3/8" (9.50mm.) door face opposite to closer					
		Aluminum or wood	3/8" (9.50mm.) through					
#14 x 1-1/4" (32mm.) type "A" S.M. screws	Soffit plate 6190 Bracket	Wood	3/16" (4.30mm.)					
1/4-20 machine screw]	metal	drill: #7 (.201"dia.) tap: 1/4-20					
Through bolts and grommet nuts	Optional	Ali	9/32" (7.00mm.) through 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep, door face opposite to closer					

	pening gle	Dimensions*								
Hold	Dead		Butts and Offset Pivots				Center Pivots			
Open	Stop	Dimens	Dimension A Dimension B			Dimens	ion A	Dimens	ion B	
**		Inches	mm.	Inches	mm.	Inches	mm.	Inches	mm.	
85°	90°	101⁄4	260	10½	267	111⁄4	286	111/2	292	
90°	95°	95/8	244	91/8	251	101/2	267	10¾	273	
95°	100°	91/8	232	93/8	238	10	254	101/4	260	
100°	105°	83⁄4	222	9	229	91/2	241	93/4	248	
105°	110°	83/8	213	85/8	219	91/8	232	93/8	238	
110°	115°	8	203	81/4	210	83/4	222	9	229	

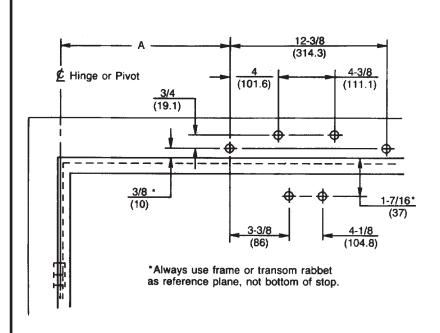
- * "A" and "B" dimensions measured from centerline of hinge or pivot.
- ** Door must be free to swing up to 5° beyond hold open position.

Unitrol® with 6191 Reinforcing Kit Series UNI-7500 & UNI-7700 Doors 28"-32" (0.70-0.80m) Wide Parallel Arm Installation Template Stop Only or Hold Open Unitrol® Backcheck or Delayed Action Door Closer With or Without 7788 Drop Plate NORTON RIXSON ASSA ABLOY

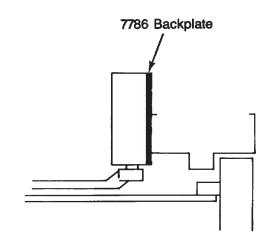
TEMPLATE NUMBER REV

7377-1357

12/21



- Do not scale drawing.
- All dimensions shown in inches (mm.).
- · Left hand door shown.
- Caution: Hollow metal doors require channel or box type reinforcement. Hollow metal frames require full width header reinforcement.



Preparation for	or Fastene	Figure 6.		
Fasteners	Application	Door or Frame	Drill Sizes	
Sex-nuts and bolts	Arm-foot	Hollow Metal	9/32" (7.00mm.) through 3/8" (9.50mm.) door face opposite to closer	
		Aluminum or Wood	3/8" (9.50mm.) through	
#14 x·1-1/4" (32mm.) type "A" S.M. screws	7786 closer- backplate	Wood	3/16" (4.30mm.)	
1/4-20 machine screw	1	Metal	drill: #7 (.201"dia.) tap: 1/4-20	
Through bolts and grommet nuts	Optional	All	9/32" (7.00mm.) through 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep, door face opposite to closer	

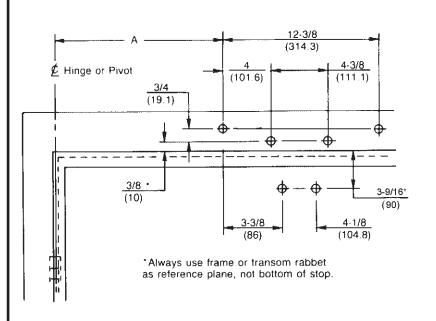
Door Opening Angle		Dimensions				
Hold Open	Dead Stop	Butts Offset		Center Pivots		
		Dimension A		Dimension A		
		Inches	mm.	Inches	mm.	
85°	90°	9¾	248	101/4	260	
90°	95°	91/8	232	95%	244	
95°	100°	81/2	216	91/8	232	
100°	105°	8	203	85%	219	
105°	110°	73/4	197	81/8	206	
110°	115°	73/8	187	77/8	200	

Unitrol® Standard Application Series UNI-J7500 & UNI-J7700 (7786 Backplate) Top Jamb Installation Template Stop Only or Hold Open Unitrol® Backcheck or Delayed Action Door Closer ASSA ABLOY

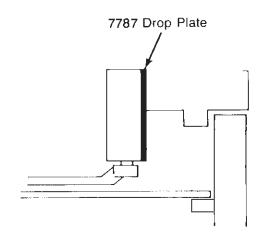
TEMPLATE NUMBER REV

7377-1401

5 | 12/21



- Do not scale drawing.
- All dimensions shown in inches (mm.).
- · Left hand door shown.
- Caution: Hollow metal doors require channel or box type reinforcement. Hollow metal frames require full width header reinforcement.



Preparation for	or Fastene	Figure 6.	
Fasteners	Application	Door or Frame	Drill Sizes
Sex-nuts and bolts	Arm-foot	Hollow Metal	9/32" (7.00mm.) through 3/8" (9.50mm.) door face opposite to closer
		Aluminum or Wood	3/8" (9.50mm.) through
#14 x 1-1/4" (32mm.) type "A" S.M. screws	Drop plate	Wood	3/16" (4.30mm.)
1/4-20 machine screw	1	Metal	drill: #7 (.201"dia.) tap: 1/4-20
Through bolts and grommet nuts	Optional	All	9/32" (7.00mm.) through 3/8" (9.50mm.) dia. x 3/8" (10mm.) deep, door face opposite to closer

Door Opening Angle		Dimensions					
Hold Open	Dead Stop	Butts and Offset Pivots		Center Pivots			
		Dimension A		Dimension A			
		Inches	mm.	Inches	mm		
85°	90°	93/4	248	101⁄4	260		
90°	95°	91/8	232	95/8	244		
95°	100°	81/2	216	91/8	232		
100°	105°	8	203	85/8	219		
105°	110°	73/4	197	81/ _H	206		
110°	115°	73/8	187	77/8	200		

Unitrol® with 7787 Drop Plate Series UNI-J7500 and UNI-J7700 Top Jamb Installation Template Stop Only or Hold Open Unitrol® Backcheck or Delayed Action Door Closer ASSA ABLOY

TEMPLATE NUMBER

REV DATE 12/21

7377-1411

Prepare These Holes Only When

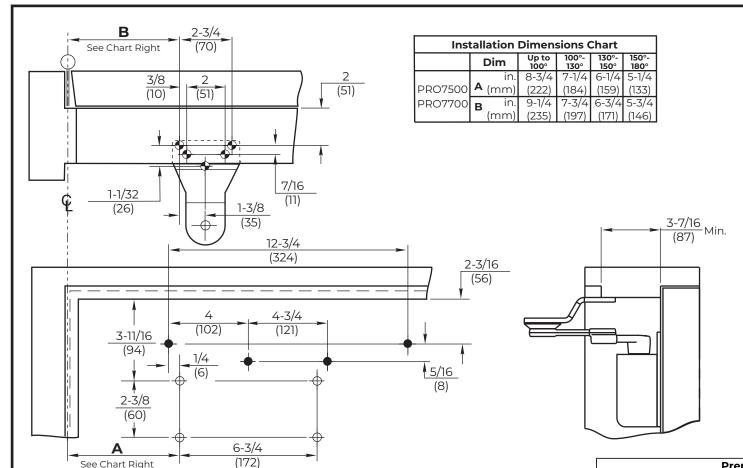
No. 7788 Drop Plate is Used

Prepare These Holes When Not

Using No. 7788 Drop Plate

Prepare These Holes For Soffit

Plate



NOTES:

- Do not scale drawing.
- Left hand door shown.
- Dimensions are in inches (mm).
- Hollow-metal doors require channel or boxtype reinforcement when thru-bolt mount is specified.
- Sex-bolts required for wood or plastic faced fire-door mounting.
- Minimum thickness recommended for reinforcements in hollow-metal doors and frames: .1046" (2.66mm).
- For closer installation and adjustments, refer to standard PR installation instruction provided with product.

CAUTION: Door swing may be limited by door, frame, wall, or hardware conditions.

NOTE: Pilot hole MUST be drilled when installing on wood doors/frames.

Preparation for Fasteners Fasteners Door or Frame Drill-Sizes Aluminum No drill required or Metal Self-Drilling Screw 3/16" (4.30 mm) Wood (see Note) Drill: #7 (0.201" dia.) 1/4" - 20 machine screw Metal Tap: 1/4" - 20 9/32" (7 mm) through; Hollow 3/8" (9.5 mm) door face Metal Sleeve nuts and bolts opposite to closer Aluminum 3/8" (9.5 mm) through or Wood

PRO7700 and PRO7700H Series Sized Door Closers
PRO7500 and PRO7500H Series Multi-Size Door Closers
With or Without 7788 Drop Plate. To Clear 1-5/8" x 5/8" Coordinator
Parallel Rigid Arm with Offset Soffit Plate for Extra Drop Clearance
Non-Hold Open or Hold Open Arm Application
Approved 2023-04-14

ASSA ABLOY

TEMPLATE NUMBER 80-7377-1413-020 DATE 04/23