

Testing Summary

Design Pressure psf	Test Assemblies Label	Description	Frame Overall Size	J.O. Size	Finish	Frame Tested	Door	Hardware (or Equal)	Remark
70	# SC1	HM Door with Cylindrical Lock Flush Single Outswing Steel Entry Door	40" w x 86" h	36" w x 84" h	A60	J.D.-5 ³ / ₄ , 16Ga, 2"-Face	16 Ga Skins, 22Ga Ribs (6"O.C.)	3-Butt Hinge, McKinney TA2714 1-Mortise Lock Corbin Russwin CL3300 Series (or Equal)	
70	# SC2	HM Door with Mortise Lock Flush Single Outswing Steel Entry Door			A60	J.D.-5 ³ / ₄ , 16Ga, 2"-Face	16 Ga Skins, 22Ga Ribs (6"O.C.)	3-Butt Hinge, McKinney TA2714 1-Mortise Lock with Deadbolt, Sargent 8200 Series (or Equal)	
70	# SC3	HM Door with Rim Exit Device Flush Single Outswing Steel Entry Door			A60	J.D.-5 ³ / ₄ , 16Ga, 2"-Face	16 Ga Skins, 22Ga Ribs (6"O.C.)	3-Butt Hinge, McKinney TA2714 1-Rim Exit Device with Windstorm Interlocking Strike Bracket, Yale 7150 Series (or Equal)	
70	# PC1	HM Pair Door with Cylindrical Lockset and Surface Bolts Flush Pair Outswing Steel Entry Door	76" w x 86" h	72" w x 84" h	A60	J.D.-5 ³ / ₄ , 14Ga, 2"-Face	16 Ga Skins, 22Ga Ribs (6"O.C.)	6-Butt Hinge, McKinney TA2714 1-Cylindrical Lock Corbin Russwin CL3300 Series 1-SurfaceBolt, Yale 988Y (or Equal)	
70	# PC2	HM Pair Door with Mortise Lockset and Surface Bolts Flush Pair Outswing Steel Entry Door			A60	J.D.-5 ³ / ₄ , 14Ga, 2"-Face	16 Ga Skins, 22Ga Ribs (6"O.C.)	6-Butt Hinge, McKinney TA2714 1-Mortise Lock with Deadbolt, Sargent 8200 Series (Strike inactive leaf) 1-SurfaceBolt, Yale 988Y (or Equal)	
70	# PC3	HM Pair Door with Mortise Exit Device and Surface Vertical Rod Device Flush Pair Outswing Steel Entry Door			A60	J.D.-5 ³ / ₄ , 14Ga, 2"-Face	16 Ga Skins, 22Ga Ribs (6"O.C.)	6-Butt Hinge, McKinney TA2714 1-Mortise Exit Device with Deadbolt, Sargent WS8900 Series (Strike inactive leaf) 1-Surface Vertical Rod Exit Device, Yale 7170 (or Equal)	
70	# PC4	HM Door with Rim Exit Device Flush Pair Outswing Steel Entry Door with Removable Mullion			A60	J.D.-5 ³ / ₄ , 14Ga, 2"-Face	16 Ga Skins, 22Ga Ribs (6"O.C.)	6-Butt Hinge, McKinney TA2714 1-Removable Mullion, Yale M200FWS 2-Rim Exit Device with Windstorm Interlocking Strike Bracket, Yale 7150 (or Equal)	
70	# PC5	HM Door with Concealed Vertical Rod and Surface Vertical Rod Exit Device Flush Pair Outswing Steel Entry Door			A60	J.D.-5 ³ / ₄ , 14Ga, 2"-Face	16 Ga Skins, 22Ga Ribs (6"O.C.)	6-Butt Hinge, McKinney TA2714 1-Exit device, Sargent 8600 CVR 1-Exit Device, Sargent HC8700 SVR (or Equal)	

1. ASTM E 330: Uniform Static Air Pressure Difference.
2. ASTM E 1886: Missile(s) and Exposed to Cyclic Pressure Differentials.
3. ASTM E 1996: Windborne Debris in Hurricanes, Missile D, Wind Zone 4.
4. ANSI/SDI A250.13-2008: Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies.

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Detailing/Engineering/TEST STANDARDS/MANUAL/HMRA

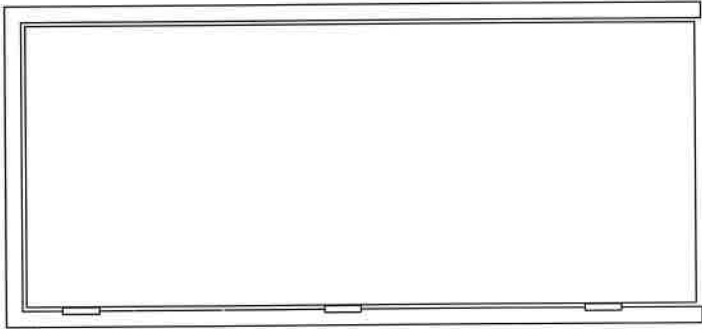
L.I.F. Industries, Inc. Long Island Fireproof Door	Project Name	Revision #0 Dated 06-25-10	
	Windstorm Test	Drawn:	Checked:
		OK	KA
		Date:	Sheet #
		06-25-10	A

**Testing for Compliance With
(Design Pressure $\pm$ 70psf):**

- 1. ASTM E 330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.
- 2. ASTM E 1886: Standard Test Method for Performance of Exterior Windows, Doors, Curtain Walls and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
- 3. ASTM E 1996: Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes, Missile D, Wind Zone 4.
- 4. ANSI/SDI A250.13-2008: Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies.

NOTE:
Test Samples Manufactured in Accordance with:
ANSI/NAAM HMMA 861-06 Guide Specifications
for Commercial Hollow Metal Doors and Frames

Test Samples Manufactured

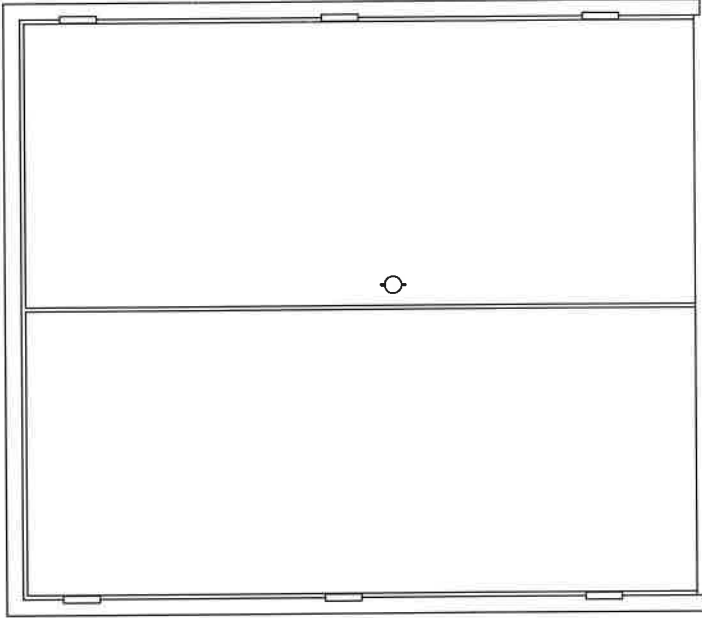


Elevation



Section

Single Door Opening Configurations:
SC1,SC2,SC3



Elevation



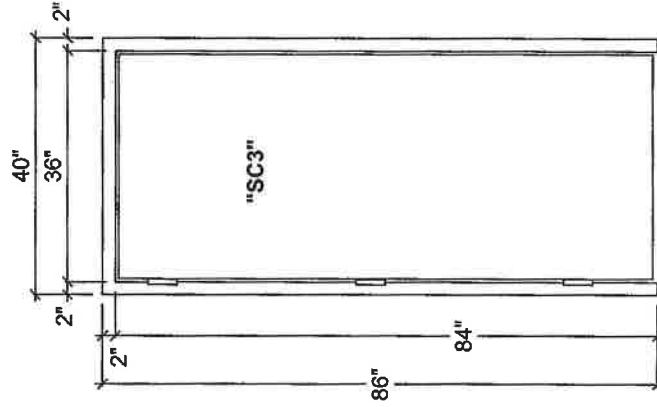
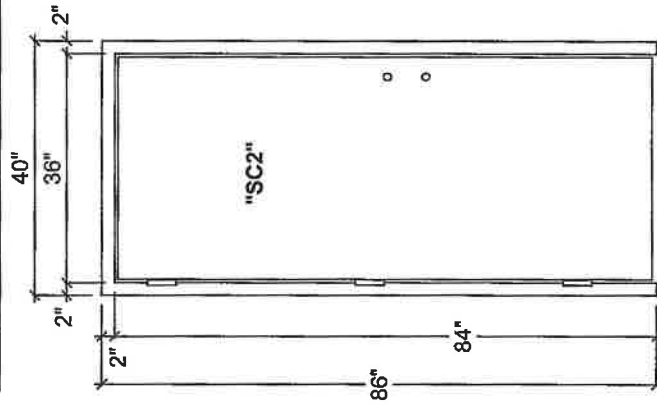
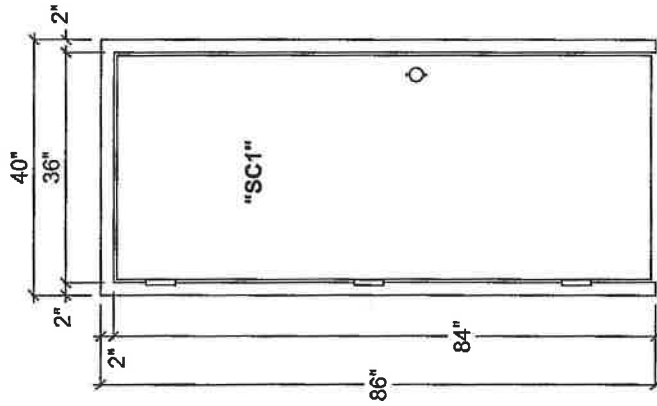
Section

Pair Door Opening Configurations:
PC1,PC2,PC3,PC4,PC5

Project Name
Windstorm Test

Revision #1 Dated 02-09-21	
Drawn: OK	Checked: KA
Date: 06-25-10	Sheet # 1

WINDSTORM SAMPLES "SC1", "SC2", "SC3"



Hardware Set SC1:

Lock - Corbin Russwin CL3300 Series
Cylindrical Lockset

Hinges - McKinney # TA2714, 1 1/2" Pair
4 1/2" x 4 1/2" Regular Weight with
12-24 MS

Hardware Set SC2:

Lock - Sargent 8200 Series Mortise Lock
Hinges - McKinney # TA2714, 1 1/2" Pair 4 1/2" x 4 1/2"
Regular Weight with 12-24 MS

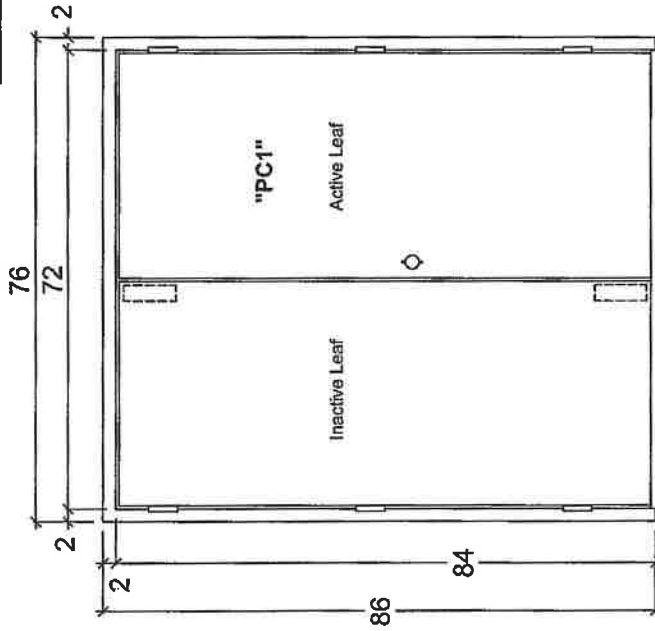
Hardware Set SC3:

Exit Device - Yale 7150 FWS with Windstorm Interlocking Bracket
Hinges - McKinney # TA2714, 1 1/2" Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

Project Name		Revision #0 Dated 06-25-10
Windstorm Test		Drawn: OK Checked: KA
L.I.F. Industries, Inc. Long Island Fireproof Door		Date: 06-25-10 Sheet # 2 of 31

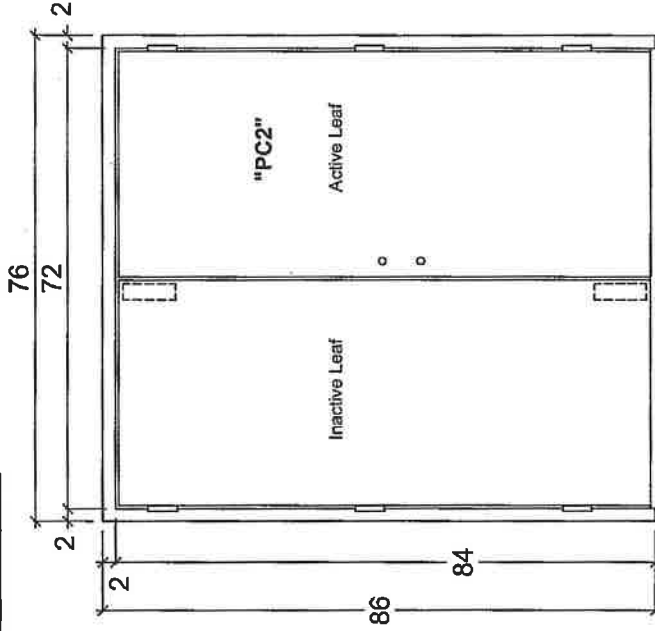
NOTE: HARDWARE SPECIFIED OR EQUAL

WINDSTORM SAMPLES "PC1" "PC2"



Hardware Set PC1:

- Lock - Corbin Russwin CL3300 Series Cylindrical Lockset (Active Leaf)
- Manual Surface Bolt - Yale 988Y (Inactive Leaf)
- Hinges - McKinney # TA2714, 3 Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS



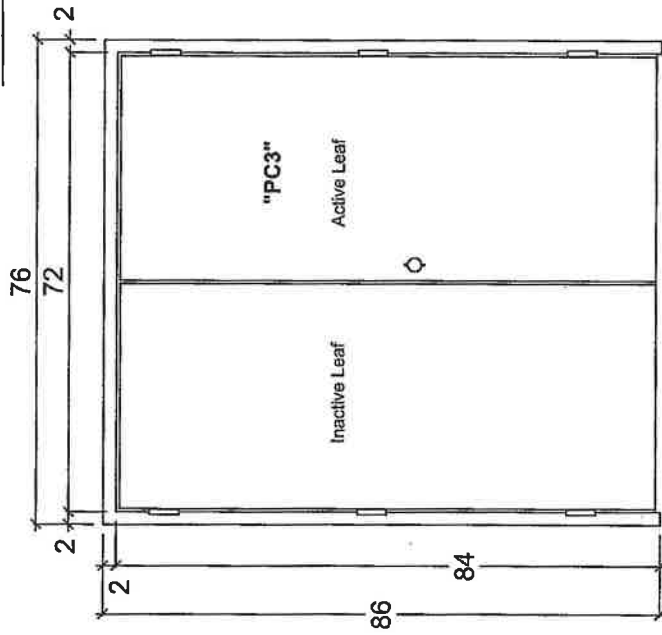
Hardware Set PC2:

- Lock - Sargent 8200 Series Mortise Lock (Active Leaf)
- Manual Surface Bolt - Sargent 988 (Inactive Leaf)
- Hinges - McKinney # TA2714, 3 Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

L.I.F. Industries, Inc. Long Island Fireproof Door	Project Name		Revision #0, Dated 08-25-10
	Windstorm Test		Drawn: OK Checked: KA Date: 08-25-10 Sheet # 3 of 31

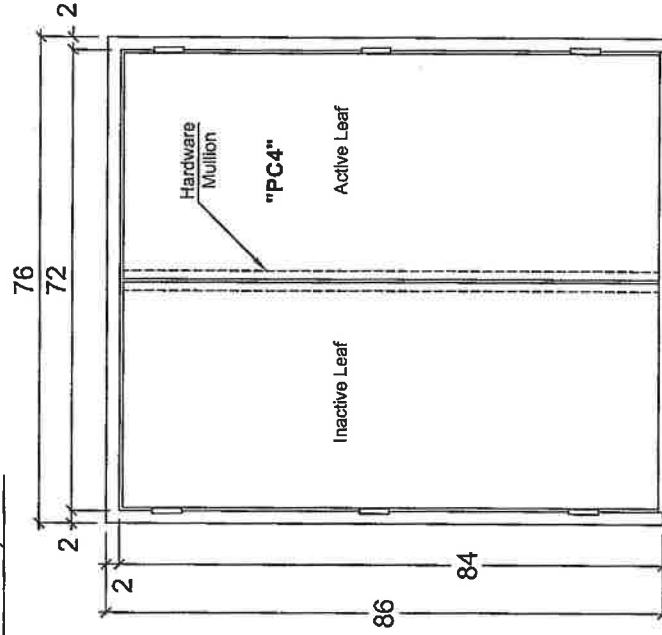
NOTE: HARDWARE SPECIFIED OR EQUAL

WINDSTORM SAMPLES "PC3", "PC4"



Hardware Set PC3:

Mortise Exit Device - Sargent WS 8900 (Active Leaf)
 Surface Vertical Rod Exit Device - Yale 7170 WS (Inactive Leaf)
 Hinges - McKinney # TA2714, 3 Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS



Hardware Set PC4:

Rim Exit Device - Yale 7150 with Windstorm Interlocking Bracket (Each Leaf)
 Removable Mullion - Yale M200 FWS
 Hinges - McKinney # TA2714, 3 Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

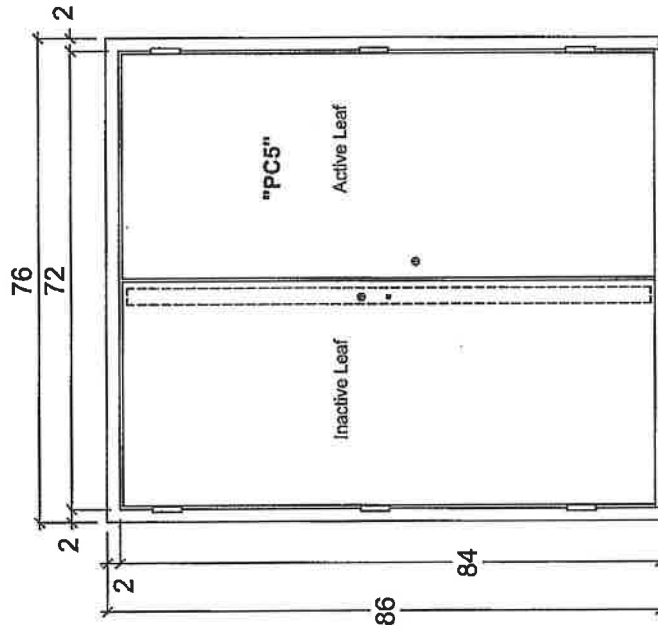
Revision #0	Drawn:	Checked:	Sheet #
Dated 06-28-10	OK	KA	4 of 31
Date:			
06-28-10			

Project Name
Windstorm Test

L.I.F. Industries, Inc.
Long Island Fireproof Door

NOTE: HARDWARE SPECIFIED OR EQUAL

WINDSTORM SAMPLES "PC5"



Hardware Set PC5:

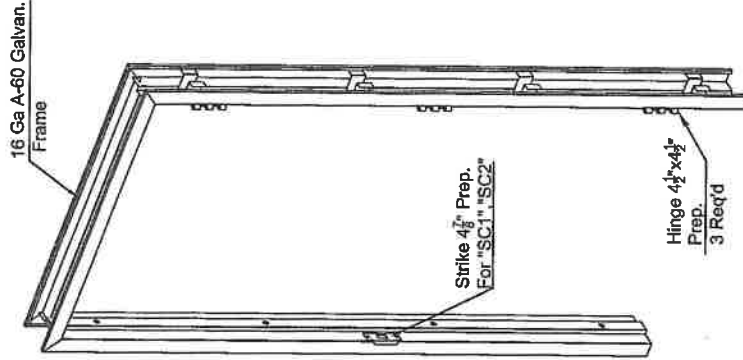
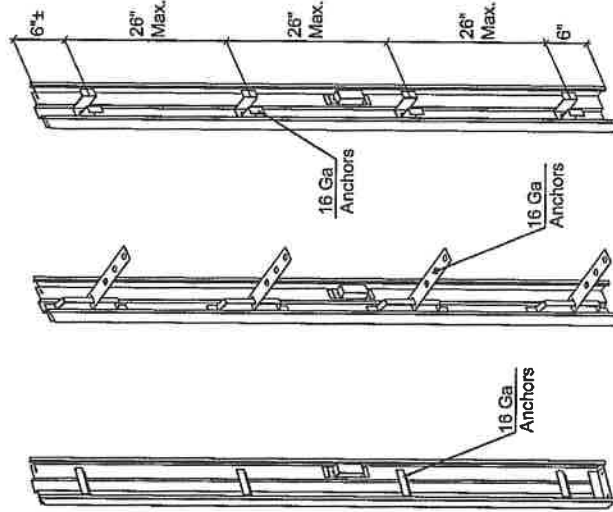
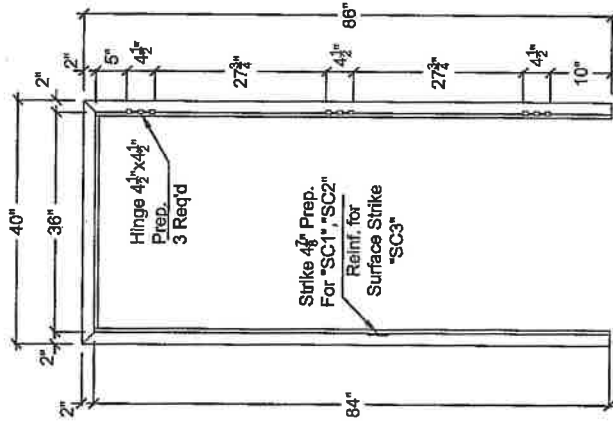
Concealed Vertical Rod Exit Device - Sargent 8600 CVR Exit Device (Active Leaf)
 Surface Vertical Rod Exit Device - Sargent HC 8700 SVR Exit Device (Inactive Leaf)
 Hinges - McKinney # TA2714, 3 Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

NOTE: HARDWARE SPECIFIED OR EQUAL



L.I.F. Industries, Inc. Long Island Fireproof Door	Project Name		Revision #0 Dated 06-25-10
	Windstorm Test		Drawn: OK Checked: KA Date: 06-28-10 Sheet # 5 of 31

Frames "SC1" "SC2" "SC3"



Zee Anchors
ALTERNATE

Adj. Mas. Anchors
ALTERNATE

Punch & Dimple Anchors
(TESTED)

Hardware Set SC1:

Lock - Corbin Russwin CL3300 Series Cylindrical Lockset
Hinges - McKinney # TA2714, 1 1/2" Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

Hardware Set SC2:

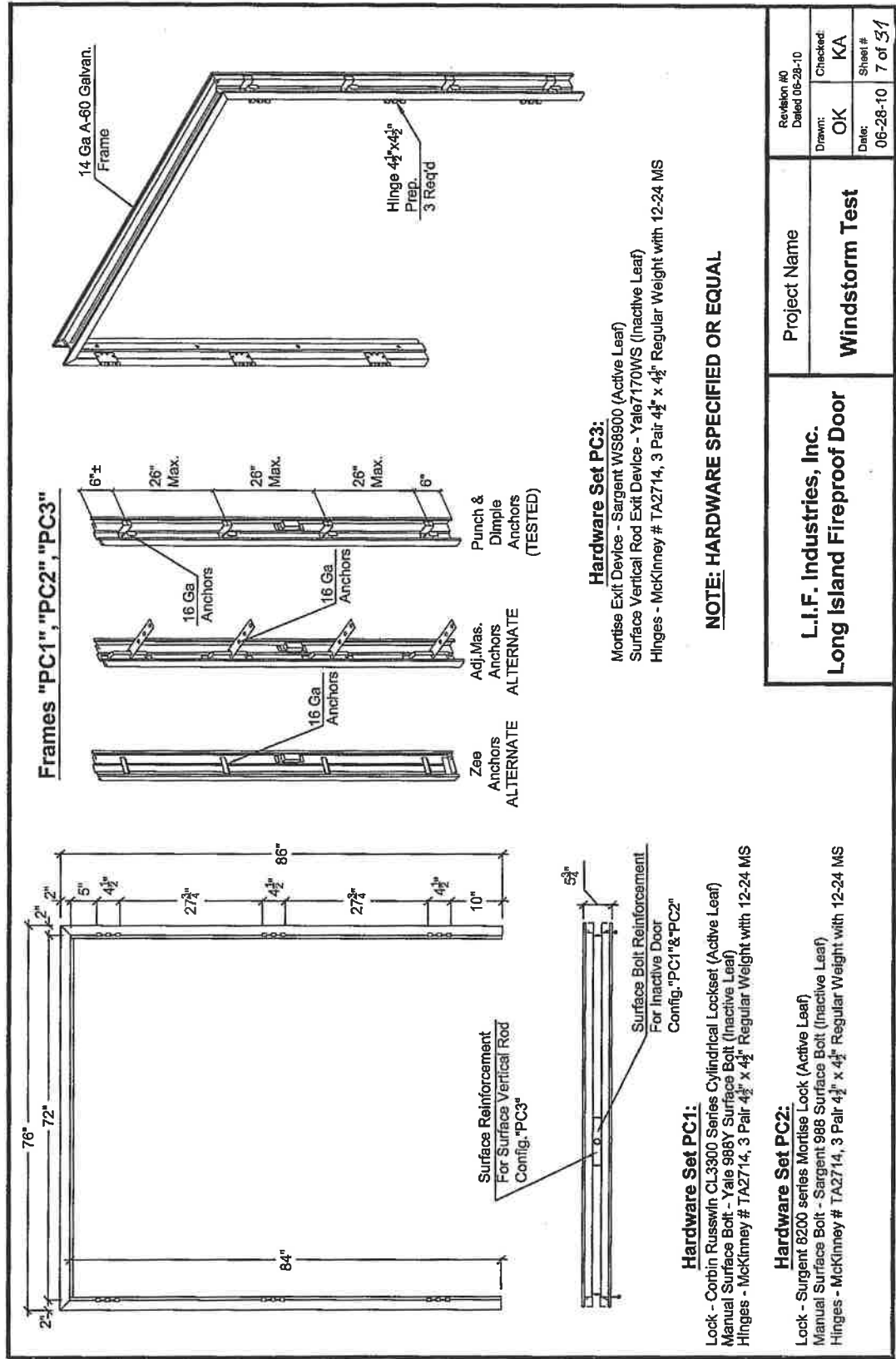
Lock - Sargent 8200 series Mortise Lock
Hinges - McKinney # TA2714, 1 1/2" Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

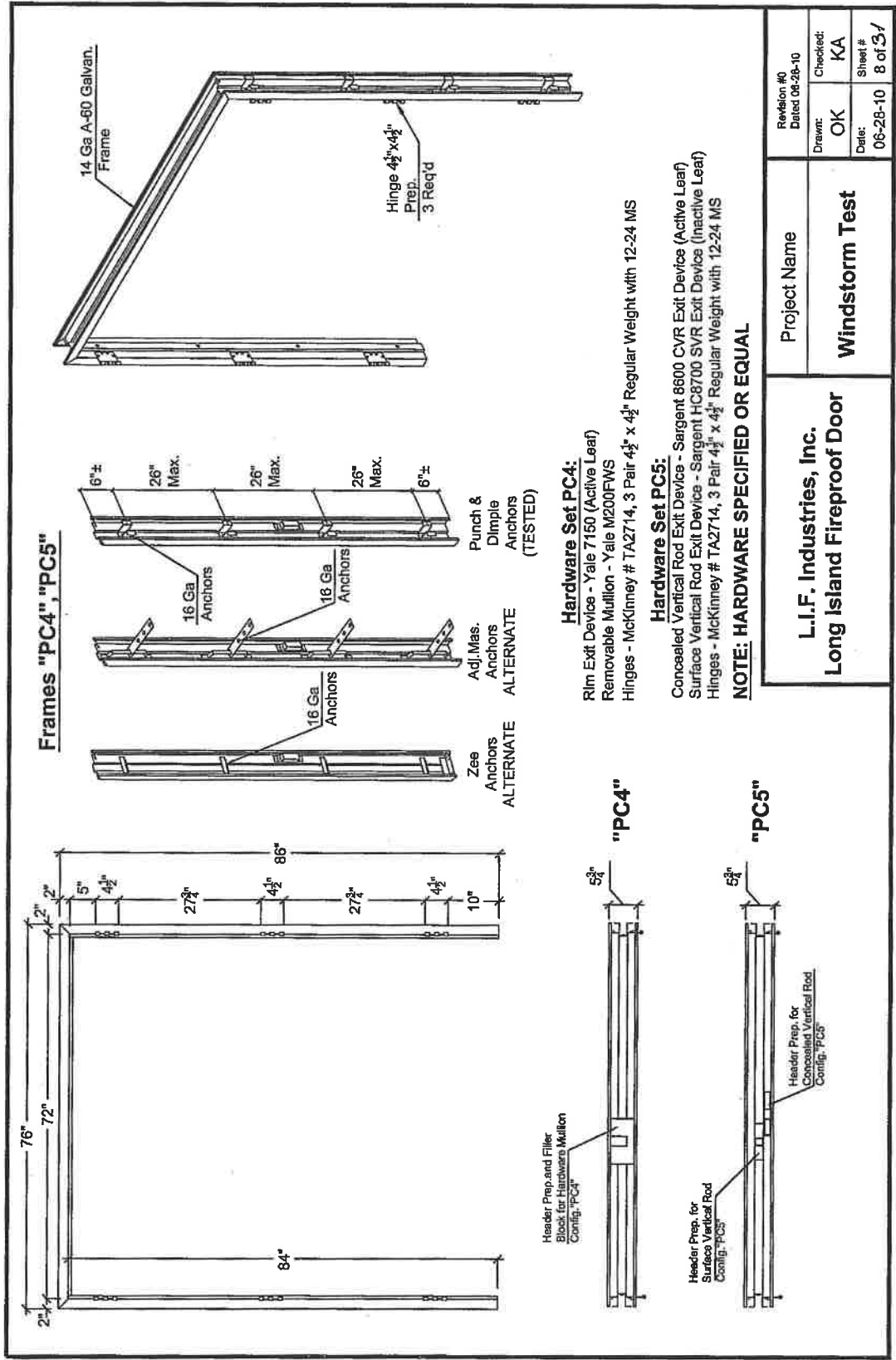
Hardware Set SC3:

Exit Device - Yale 7150 FWS
Hinges - McKinney # TA2714, 1 1/2" Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

NOTE: HARDWARE SPECIFIED OR EQUAL

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Windstorm Test		Drawn: OK Checked: KA Date: 06-28-10 Sheet # 6 of 31
L.I.F. Industries, Inc. Long Island Fireproof Door		



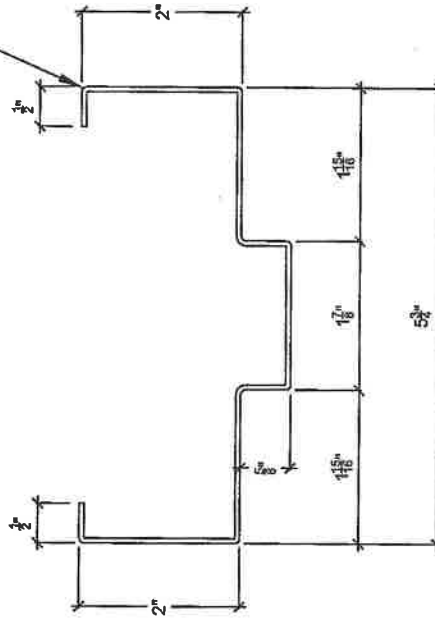


Revision #0 Dated 08-28-10		Project Name	
Drawn: OK	Checked: KA	Windstorm Test	
Date: 08-28-10	Sheet # 8 of 31	L.I.F. Industries, Inc. Long Island Fireproof Door	

**Typical Jamb Type Detail
For Frames**

"SC1", "SC2", "SC3", "PC1", "PC2", "PC3", "PC4", "PC5"

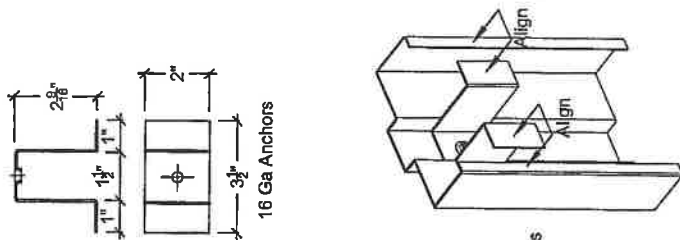
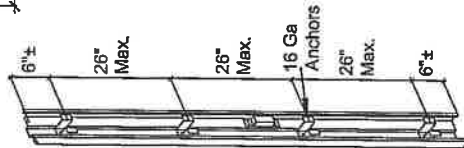
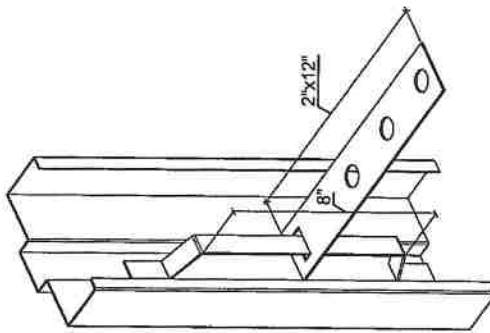
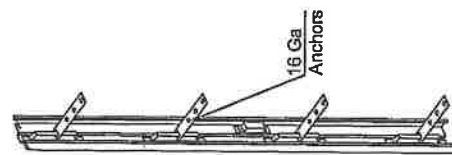
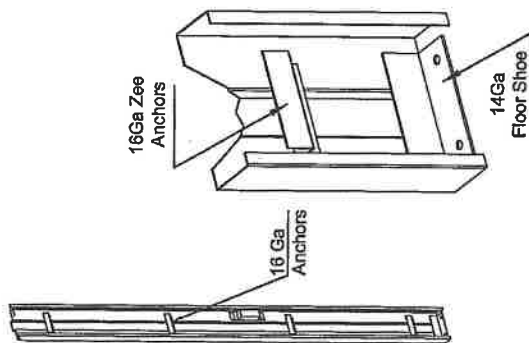
16 Ga A60 Galvannealed for Single Frames ("SC1", "SC2", "SC3")
14 Ga A60 Galvannealed for Single Frames ("PC1", "PC2", "PC3", "PC4", "PC5")



JAMB TYPE SECTION

L.I.F. Industries, Inc. Long Island Fireproof Door	Project Name		Revision #0 Dated 06-28-10
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**Typical Anchors Detail
For Frames**
"SC1", "SC2", "SC3", "PC1", "PC2", "PC3", "PC4", "PC5"



Zee Anchors
ALTERNATE

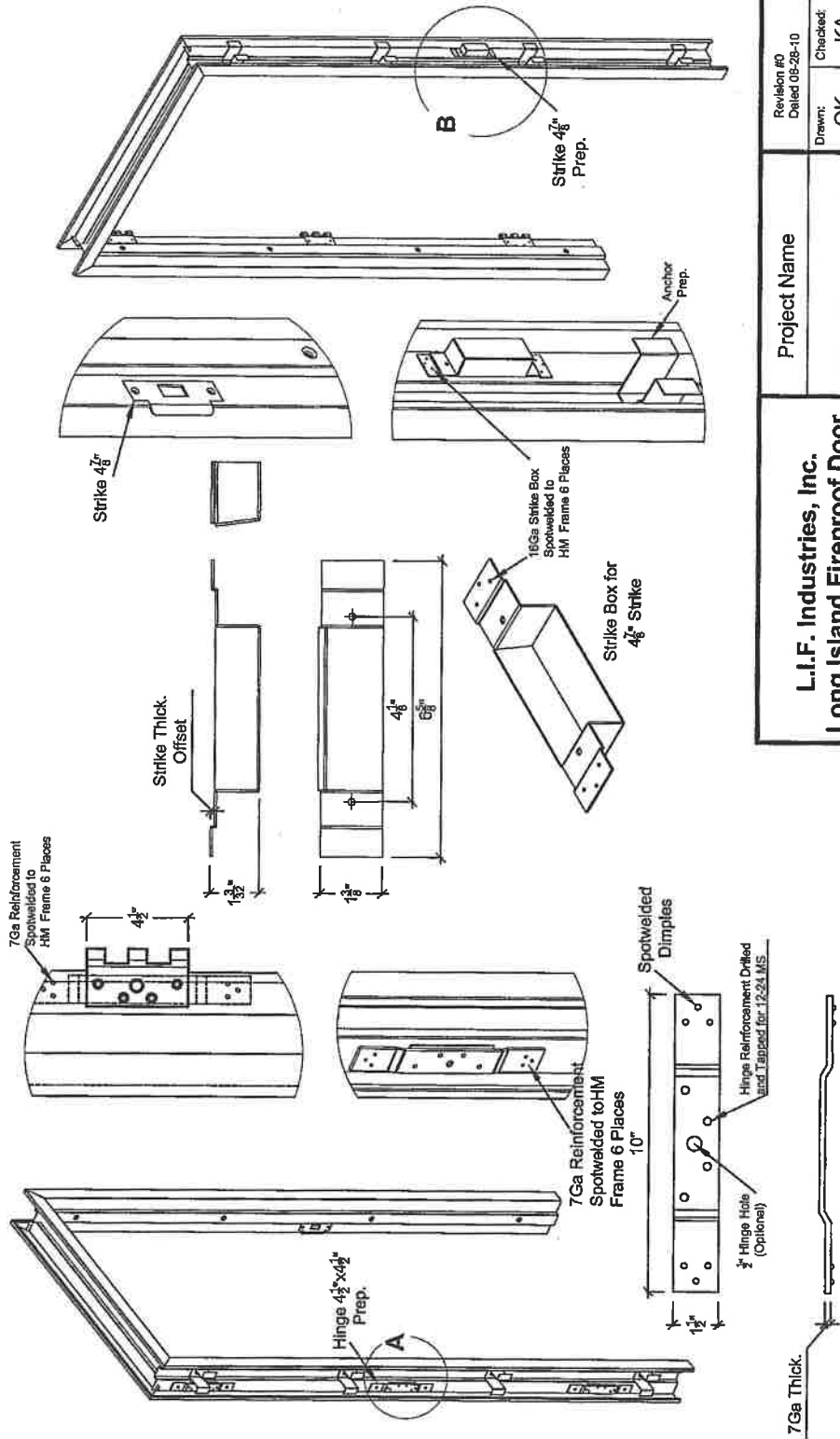
Adjustable
Masonry
Anchors
ALTERNATE

Punch &
Dimple
Anchors
(TESTED)

Project Name	Revision #0 Dated 06-29-10		
	Drawn: OK	Checked: KA	Sheet # 10 of 31
L.I.F. Industries, Inc. Long Island Fireproof Door		Date: 06-29-10	
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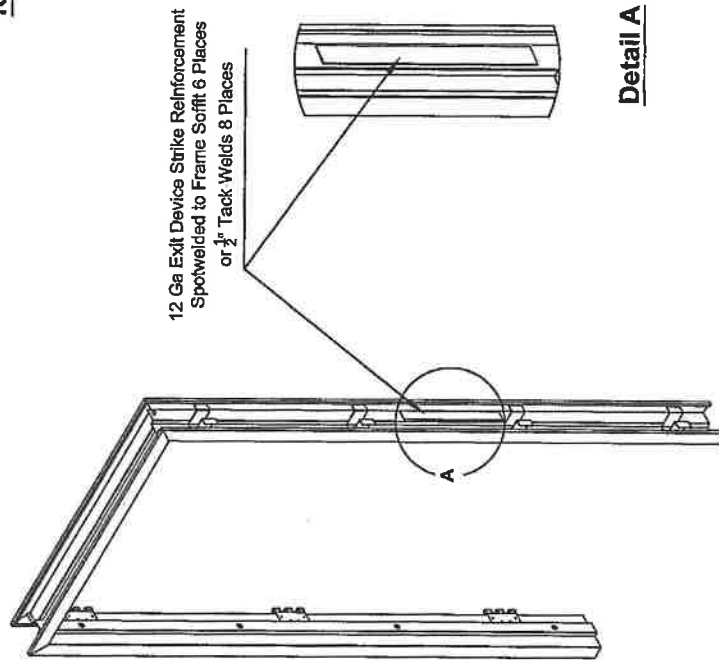
**Typical Hinges Reinforcement Detail For Frames
"SC1", "SC2", "SC3", "PC1", "PC2", "PC3", "PC4", "PC5"**

**Typical Strike Box Detail For Frames
"SC1", "SC2"**

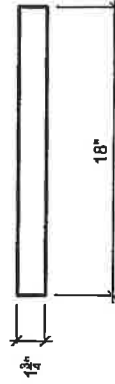


Project Name		Revision #0 Dated 06-28-10
L.I.F. Industries, Inc. Long Island Fireproof Door		Drawn: OK Checked: KA Date: 06-29-10 Sheet # 11 of 34
Windstorm Test		

**Exit Device Reinforcement Detail
for Frame "SC3"**



12 Ga Rim Exit Device Reinforcement

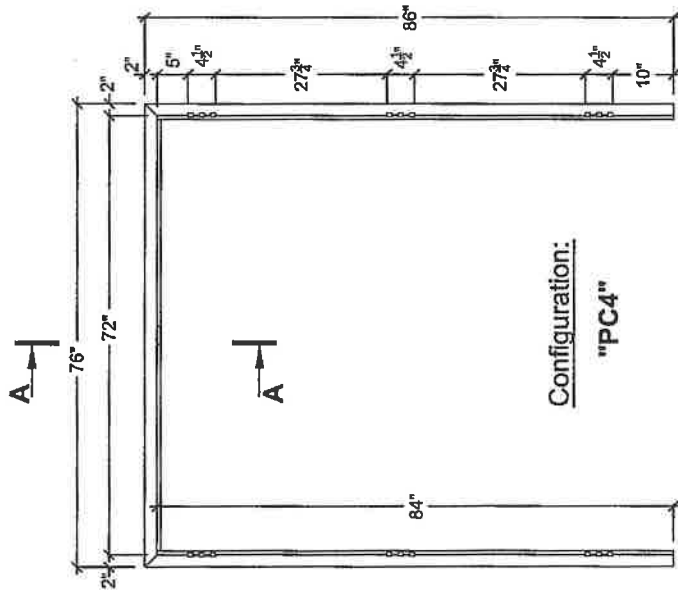


Detail A

L.I.F. Industries, Inc. Long Island Fireproof Door		Project Name Windstorm Test		Revision #0 Dated 06-28-10
		Drawn: OK Date: 06-30-10		Checked: KA Sheet # 12 of 21

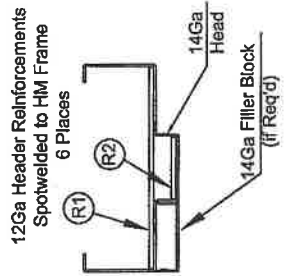


L.I.F. Industries, Inc. Long Island Fireproof Door	Project Name		Revision #0 Dated 06-28-10
	Windstorm Test	Drawn: OK	Checked: KA
		Date: 06-30-10	Sheet # 13 of 31

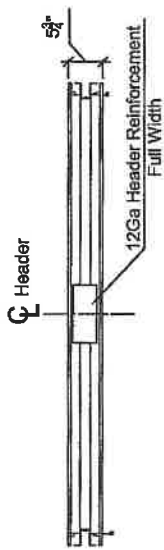
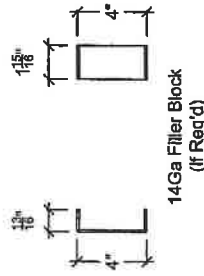
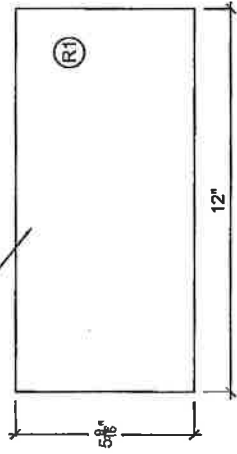
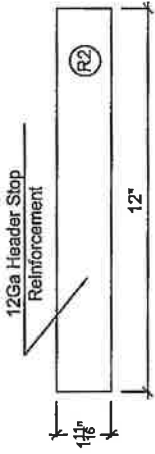


Configuration:
"PC4"

**Hardware Mullion Reinforcement and Filler
Block Detail Frames "PC4"**

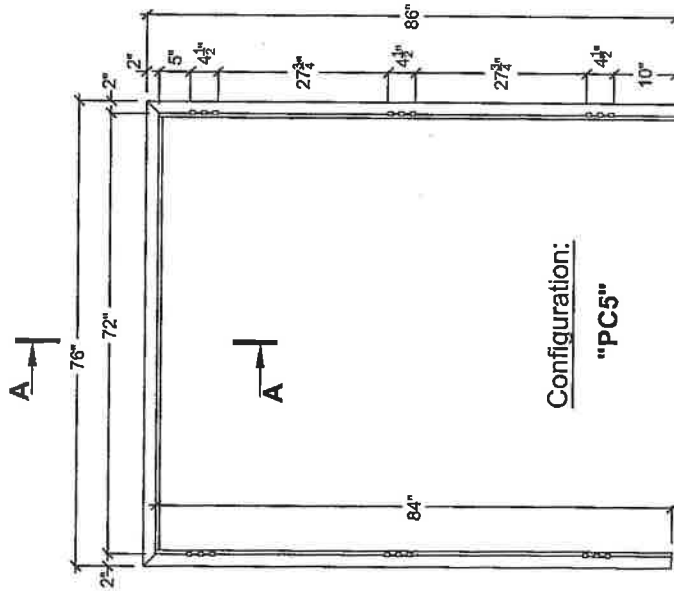


Section A-A
Config. "PC4"



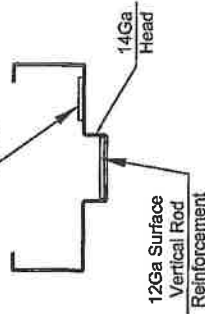
Project Name Windstorm Test		Revision #0 Dated 06-28-10	Checked: OK KA	Sheet # 14 of 31
		Drawn: OK	Date: 06-30-10	
L.I.F. Industries, Inc. Long Island Fireproof Door				

Exit Device Concealed Vertical Rod Surface Vertical Rod Header Reinforcement for Frame "PC5"

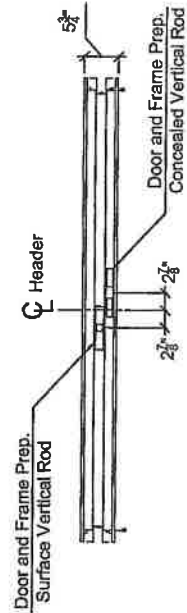
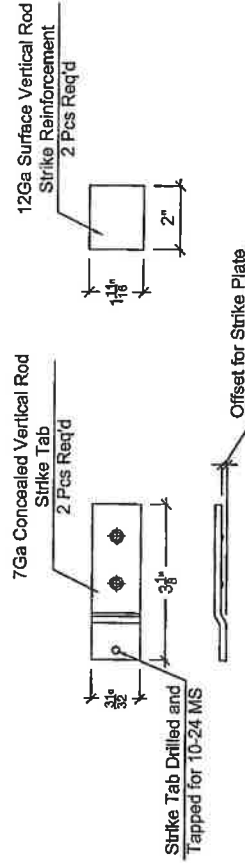


Configuration:
"PC5"

7Ga Concealed Vertical
Rod Strike Tabs
Spotwelded to HM Frame
6 Places

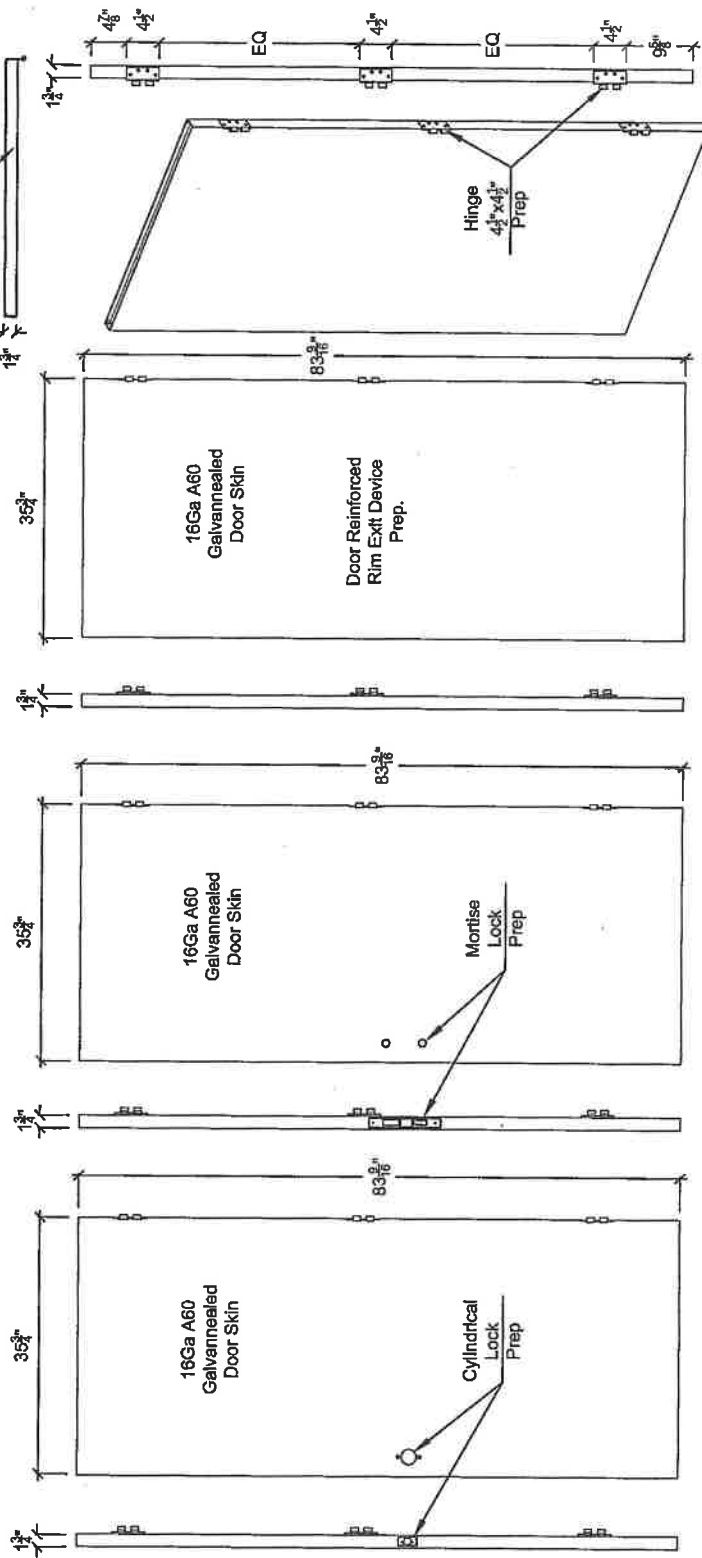


Section A-A "PC5"



Project Name	Revision #0 Dated 06-30-10		
	Drawn: OK	Checked: KA	Sheet # 15 of 31
L.I.F. Industries, Inc. Long Island Fireproof Door		Windstorm Test	

Door "SC1", "SC2", "SC3"



Hardware Set SC1:

Lock - Corbin Russwin CL3300 Series
Cylindrical Lockset
Hinges - McKinney # TA2714, 1 1/2 Pair
4 1/2\" x 4 1/2\" Regular Weight with
12-24 MS

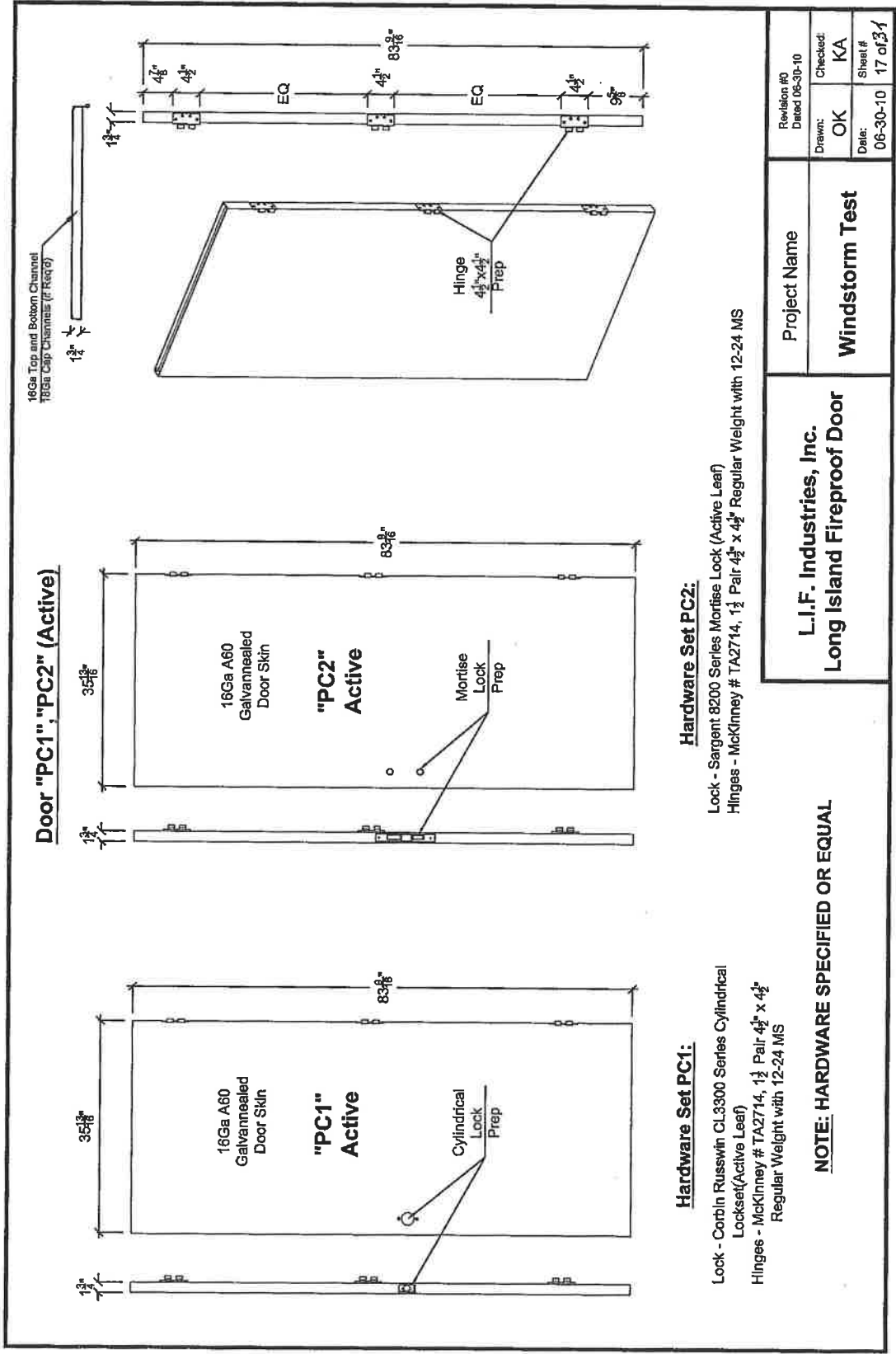
Hardware Set SC2:

Lock - Sargent 8200 Series Mortise Lock
Hinges - McKinney # TA2714, 1 1/2 Pair
4 1/2\" x 4 1/2\" Regular Weight with 12-24 MS

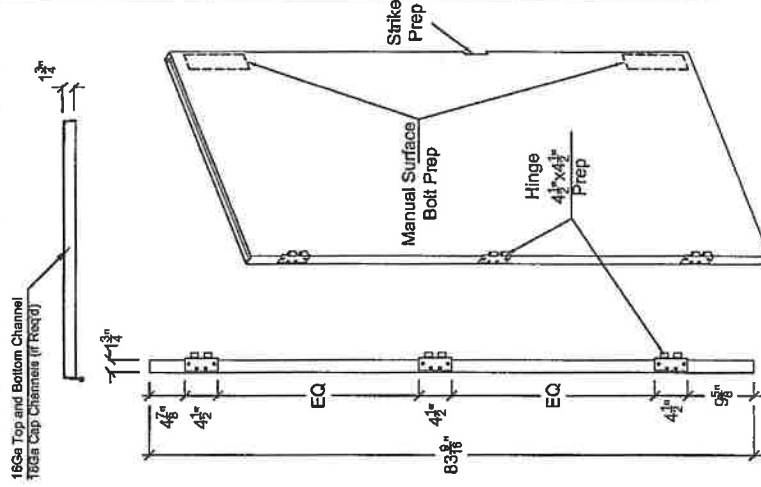
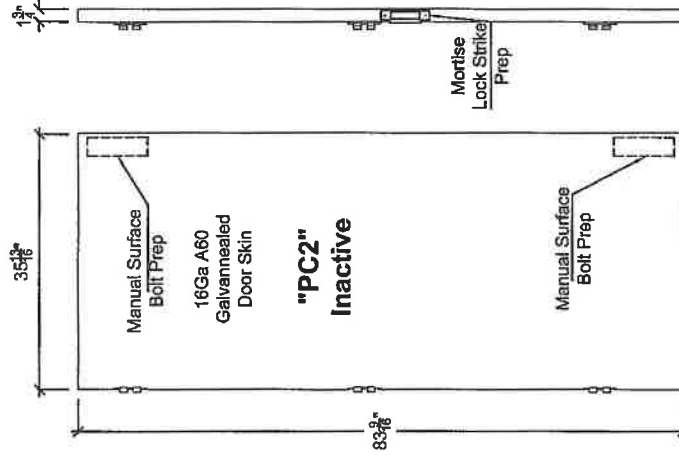
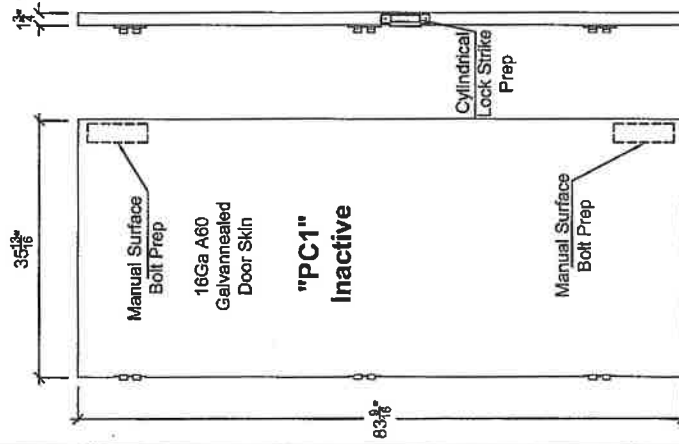
Hardware Set SC3:

Exit Device - Yale 7150 FWS with Windstorm Interlocking Bracket
Hinges - McKinney # TA2714, 1 1/2 Pair
4 1/2\" x 4 1/2\" Regular Weight with 12-24 MS

NOTE: HARDWARE SPECIFIED OR EQUAL L.I.F. Industries, Inc. Long Island Fireproof Door		Project Name		Revision #
		Windstorm Test		Deleted 06-30-10
		Drawn:	OK	Checked:
				KA
		Date:	06-30-10	Sheet #
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Door "PC1", "PC2" (Inactive)



Hardware Set PC1:

Lock - Corbin Russwin CL3300 Series Cylindrical Lockset (Active Leaf)
 Manual Surface Bolt - Yale 988Y (Inactive Leaf)
 Hinges - McKinney # TA2714, 1 1/2 Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

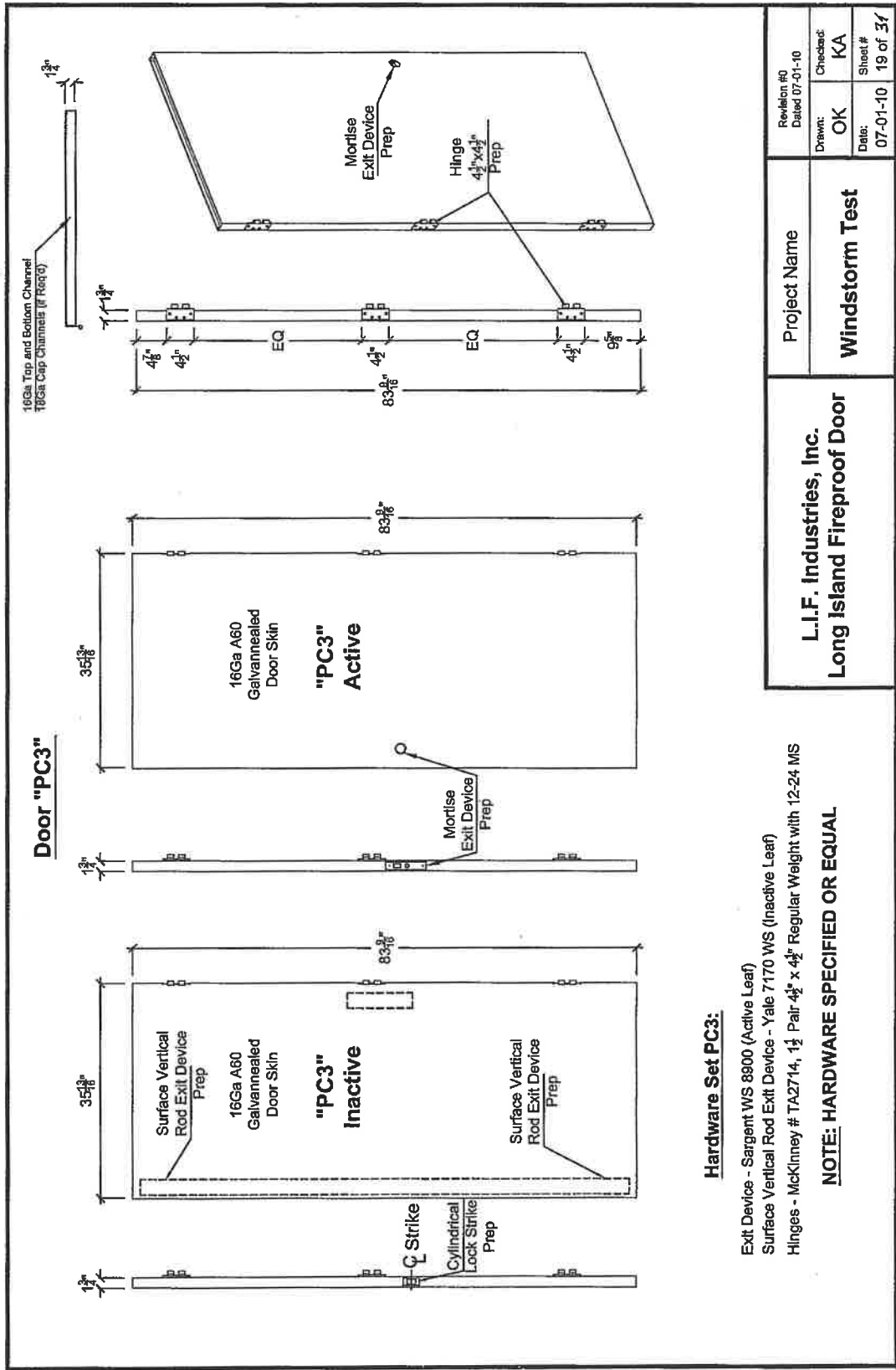
Hardware Set PC2:

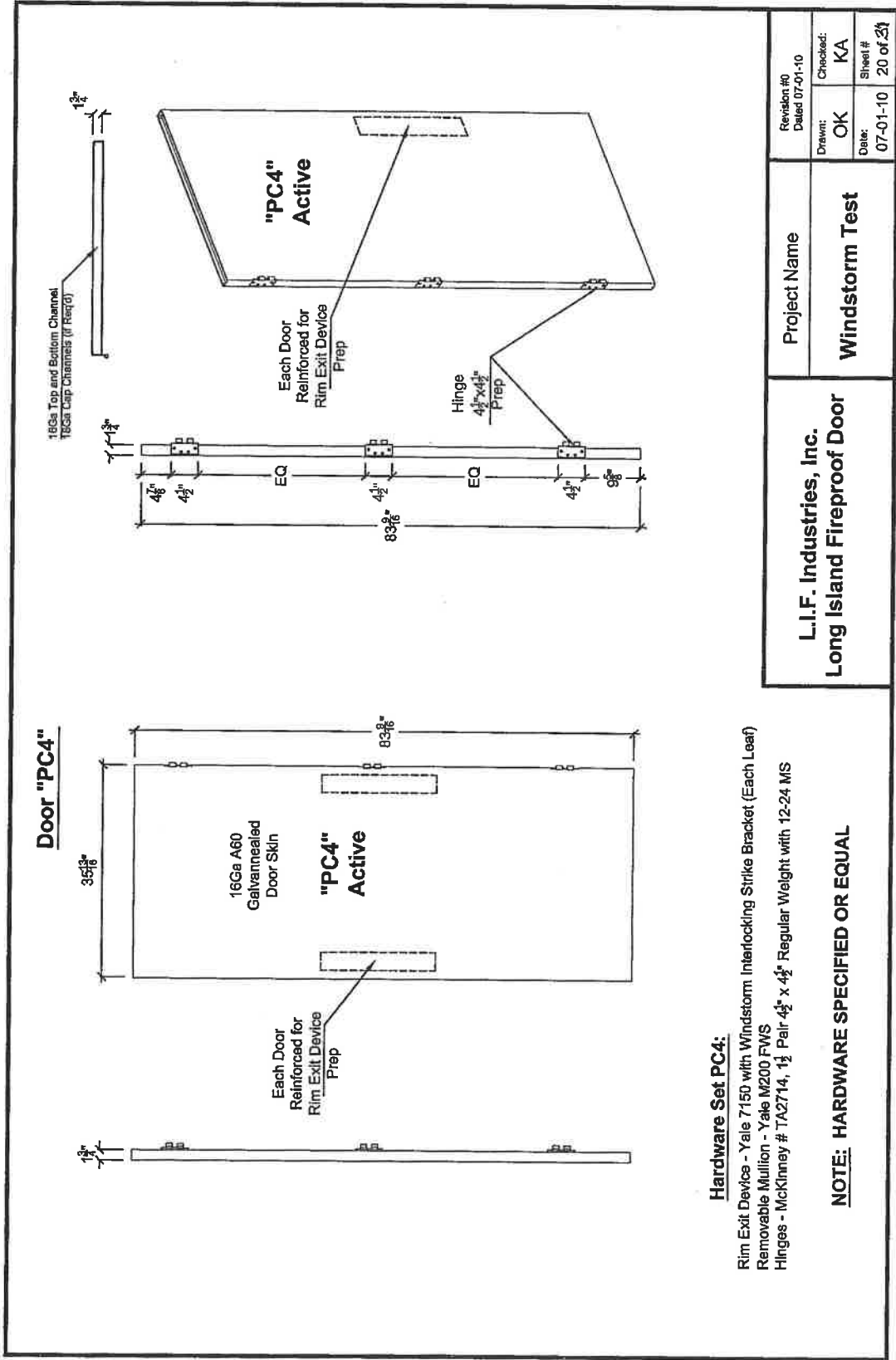
Lock - Sargent 8200 Series Mortise Lock (Active Leaf)
 Manual Surface Bolt - Yale 988Y (Inactive Leaf)
 Hinges - McKinney # TA2714, 1 1/2 Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

NOTE: HARDWARE SPECIFIED OR EQUAL

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		Date: 06-30-10
		Sheet # 18 of 21

L.I.F. Industries, Inc.
 Long Island Fireproof Door





Technical drawing of a door assembly, showing front and side views with dimensions and labels.

Front View (Top):

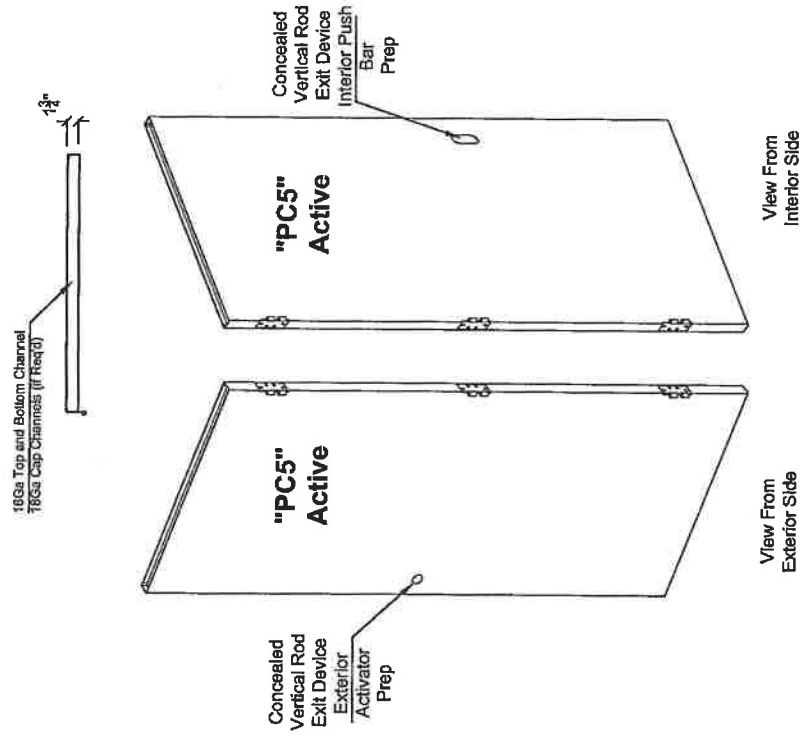
- Overall width: 83 9/16"
- Left side dimensions: 4 7/8" and 4 1/2"
- Right side dimensions: 4 1/2" and 9 5/8"
- Labels: "EQ" (Equalizer) and "Hinge 4 1/2" x 4 1/2" Prep" with an arrow pointing to the hinge location.

Side View (Bottom):

- Overall height: 83 9/16"
- Labels: "16Ga A60 Galvanized Door Skin" and "PC5" Active".

Hardware Set PC5:

Concealed Vertical Rod Exit Device - Sargent 8600 CVR Exit Device (Active Leaf)
Surface Vertical Rod Exit Device - Sargent HC 8700 SVR Exit Device (Inactive Leaf)
Hinges - McKinney # TA2714, 1 $\frac{1}{2}$ " Pair $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " Regular Weight with 12-24 MS



Project Name

Windstorm Test

Dated 07-01-10

Drawn:	Checked:
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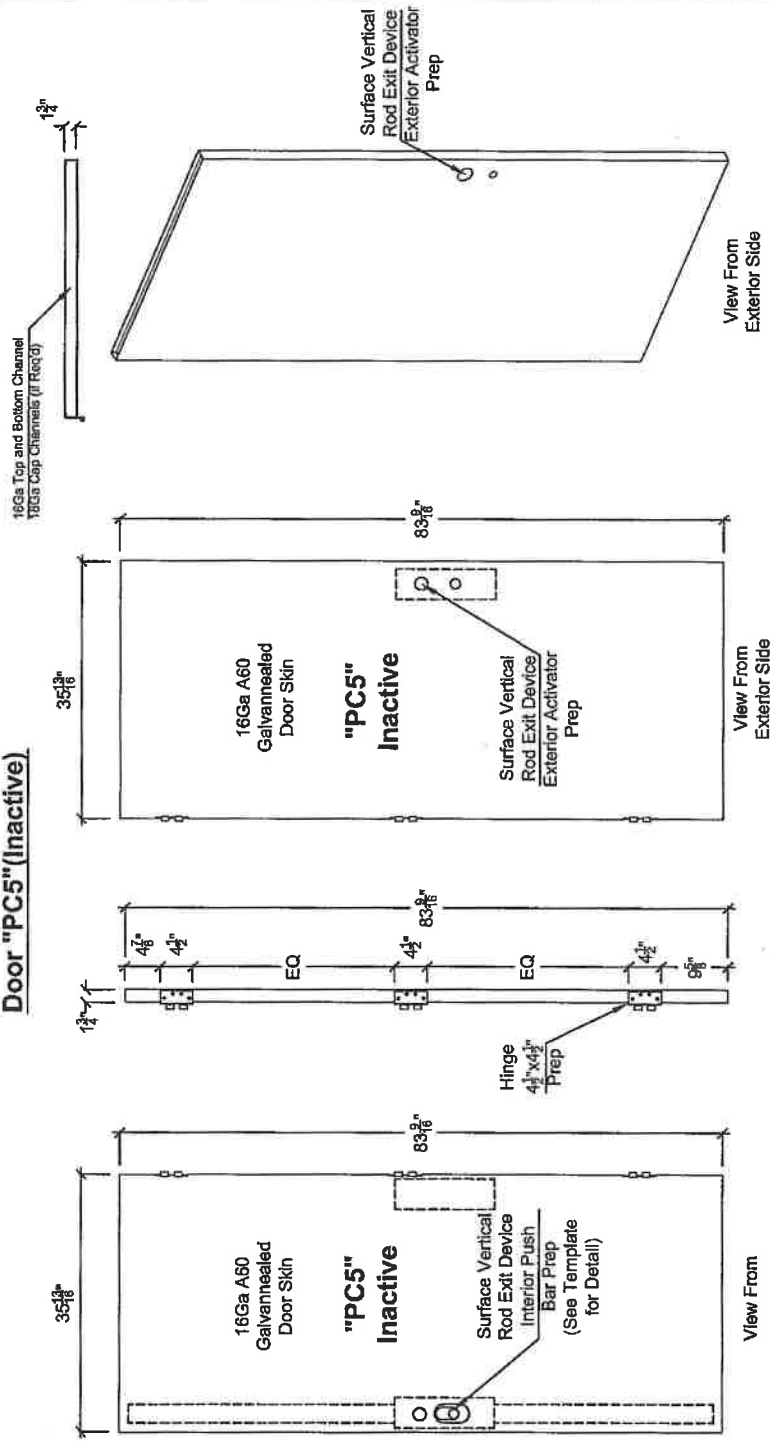
Date:	Sheet #
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07-01-10 21 نوفمبر

L.I.F. Industries, Inc.
Long Island Fireproof Door

NOTE: HARDWARE SPECIFIED OR EQUAL

Door "PC5" (Inactive)



Hardware Set PC5:

Concealed Vertical Rod Exit Device - Sargent 8800 CVR Exit Device (Active Leaf)
 Surface Vertical Rod Exit Device - Sargent HC 8700 SVR Exit Device (Inactive Leaf)
 Hinges - McKinney # TA2714, 1 1/2" Pair 4 1/2" x 4 1/2" Regular Weight with 12-24 MS

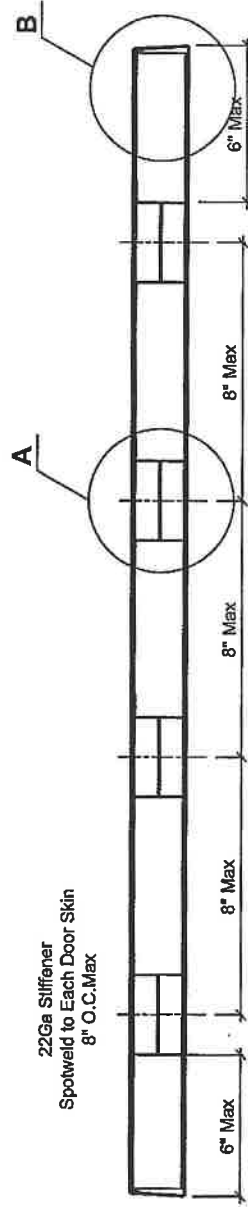
NOTE: HARDWARE SPECIFIED OR EQUAL

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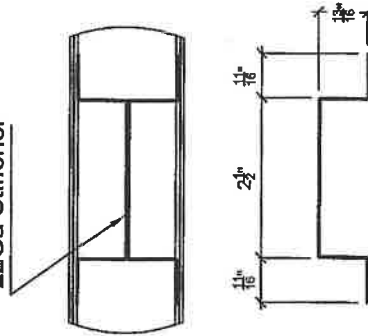
Typical Door Section Stiffener Detail

For Doors

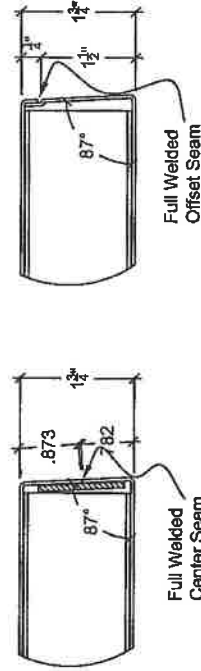
"SC1" "SC2" "SC3" "PC1" "PC2" "PC3" "PC4" "PC5"



Detail A 22Ga Stiffener



Detail B Door Edge Construction

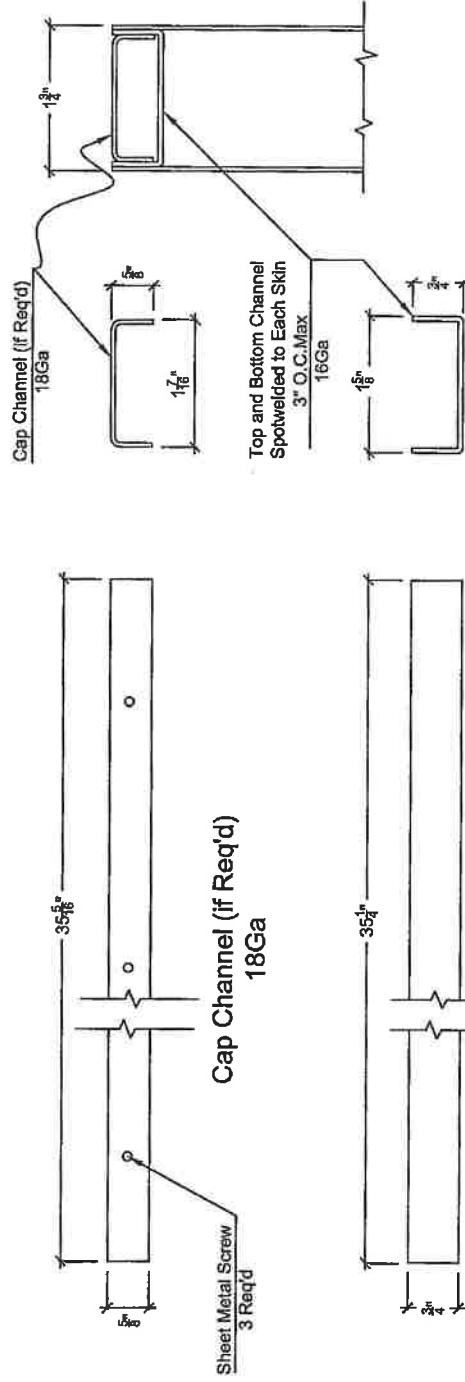


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Typical Top and Bottom Channel Detail

For Doors

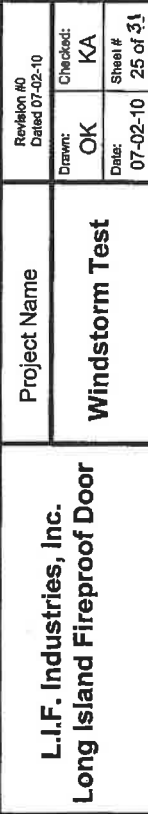
"SC1", "SC2", "SC3", "PC1", "PC2", "PC3", "PC4", "PC5"



Top and Bottom Channel
16Ga

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"SC1", "SC2", "SC3", "PC1", "PC2", "PC3", "PC4", "PC5"

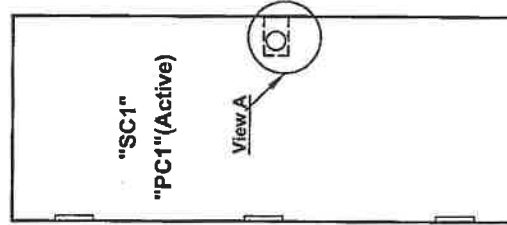


Typical Lock Box Reinforcement Detail

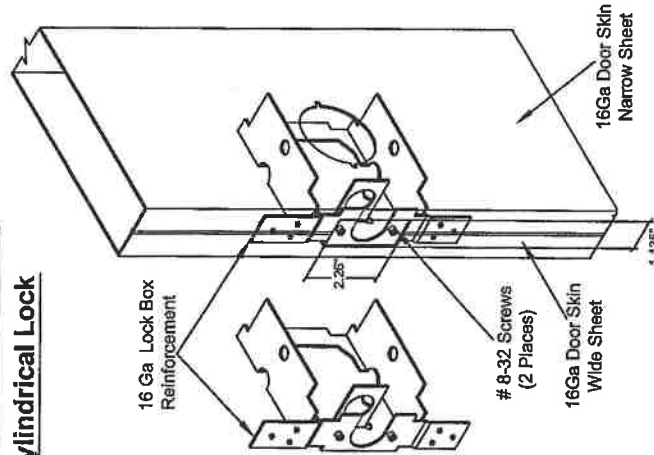
For Doors

"SC1" and "PC1"(Active)

Cylindrical Lock



Door Elevation



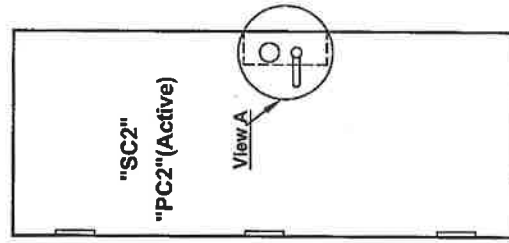
Cylindrical Lock

Typical Lock Box Reinforcement Detail

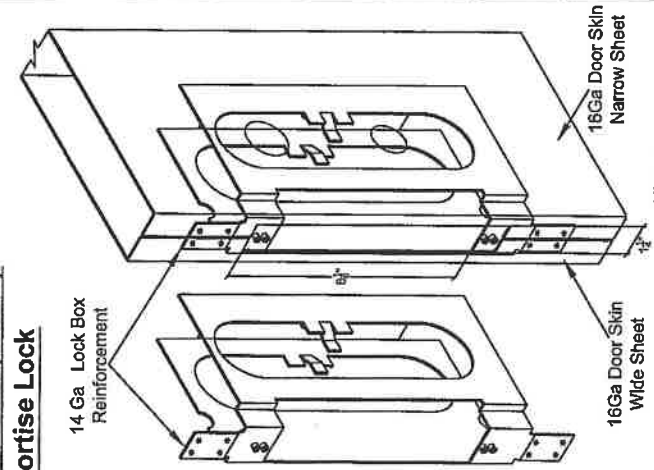
For Doors

"SC2" and "PC2"(Active)

Mortise Lock



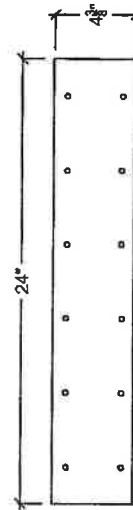
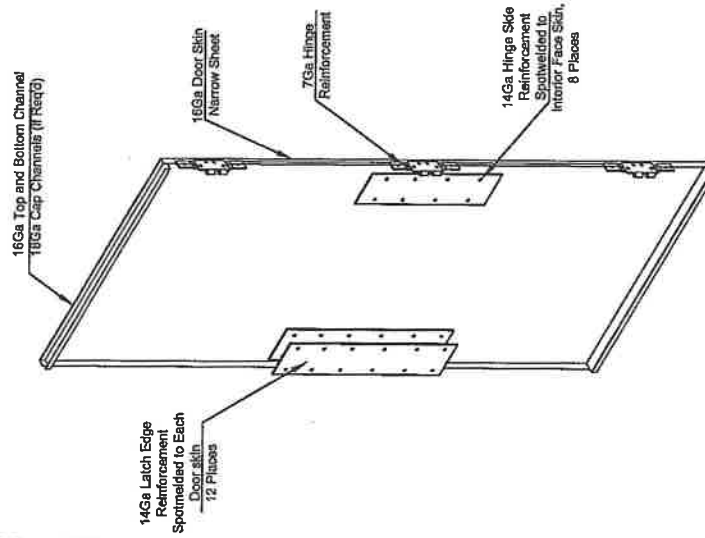
Door Elevation



Mortise Lock

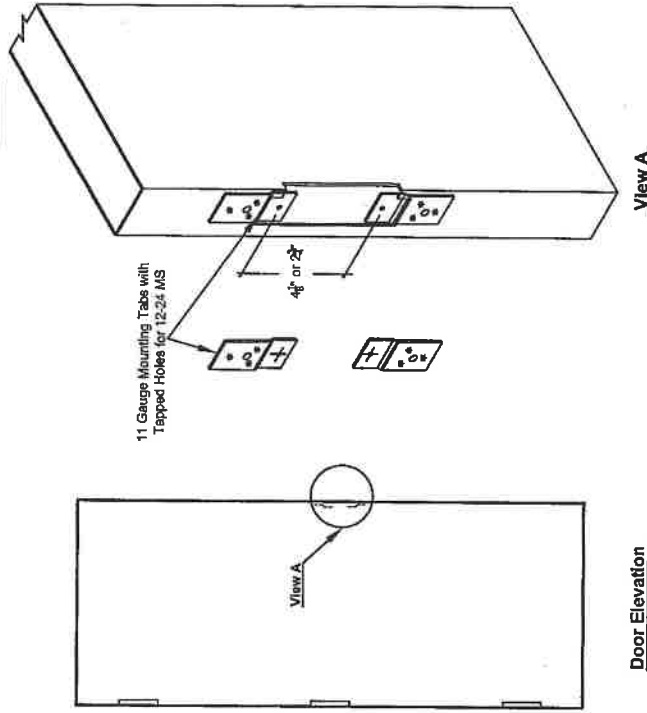
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**Typical Exit Device Reinforcement Detail
For Doors "SC3" and "PC4"**



**14Ga Latch Edge Reinforcement
Spotwelded to Each Door skin 12 Places**

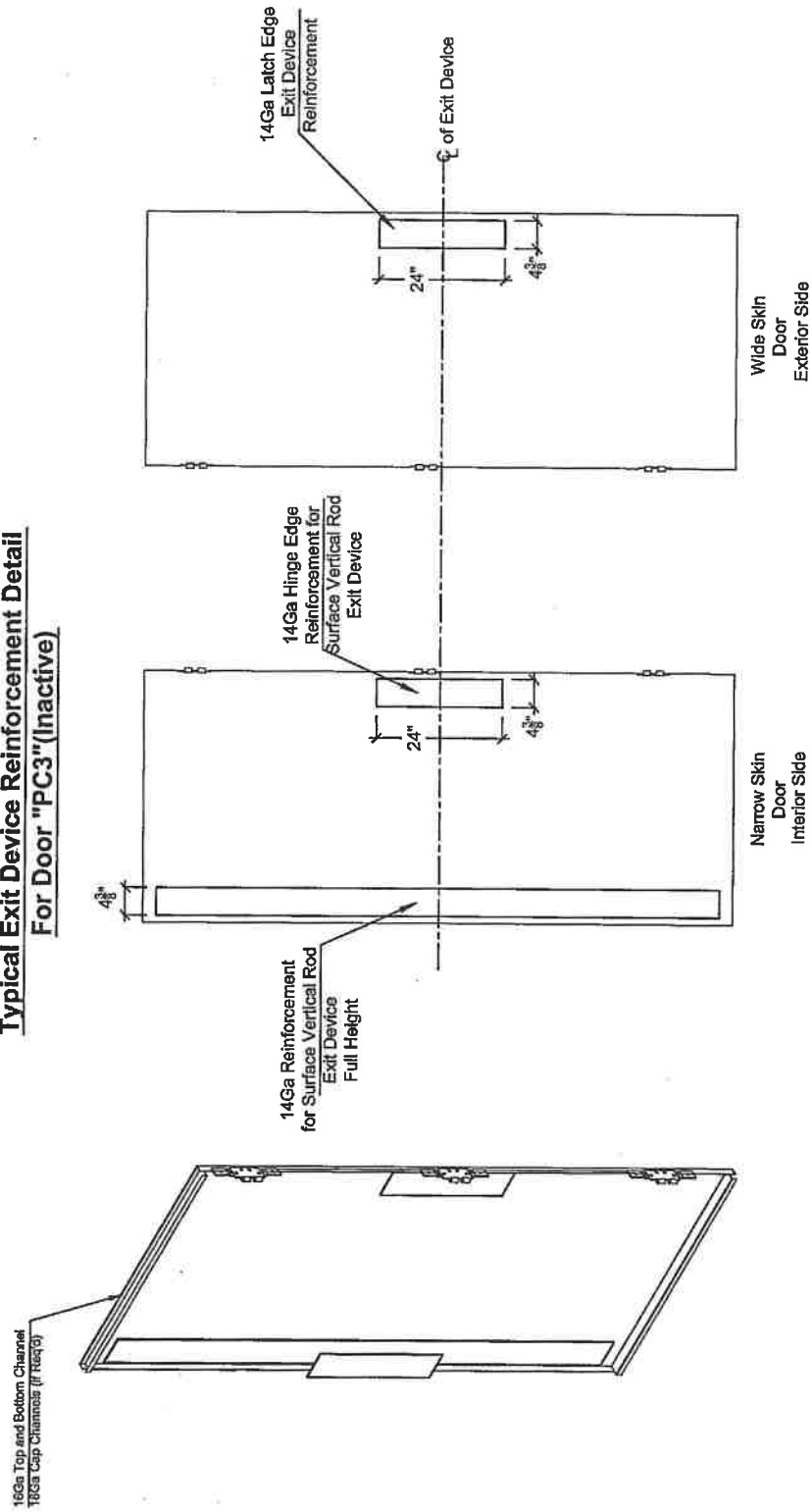
**Typical Inactive Door Strike Reinforcement Detail
For Doors "PC1", "PC2" and "PC3" (Inactive)**



**4 7/8" Strike Prep for Inactive Door
or 2 3/4" Strike Prep for Inactive Door**

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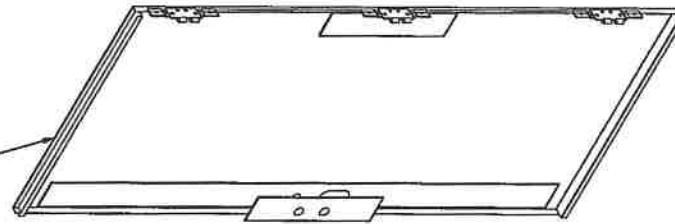
**Typical Exit Device Reinforcement Detail
For Door "PC3"(Inactive)**



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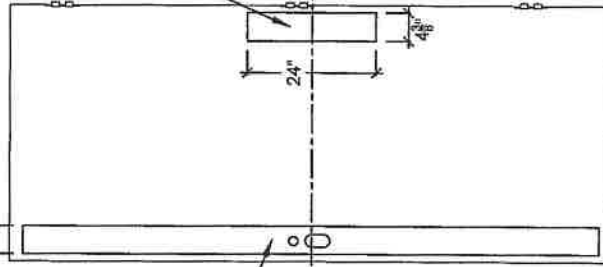
Inactive Door Surface Vertical Rod Exit Device Reinforcement **Detail For Door "PC5"(Inactive)**

16Ga Top and Bottom Channel
 18Ga Cap Channels (If Req'd)



14Ga Reinforcement
 for Surface Vertical Rod
 Exit Device with Cut out
 Full Height

4 3/8"

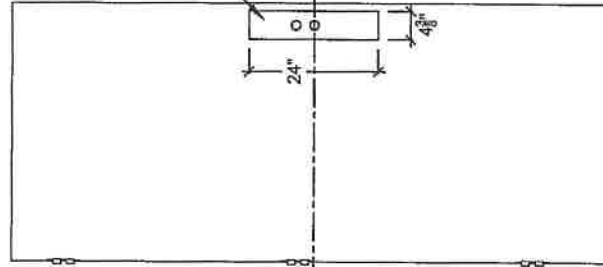


Narrow Skin
 Door
 Interior Side

14Ga Hinge Edge
 Reinforcement for
 Surface Vertical Rod
 Exit Device

24"

4 3/8"



Wide Skin
 Door
 Exterior Side

14Ga Latch Edge
 Exit Device
 Reinforcement
 with Cutout

24"

4 3/8"

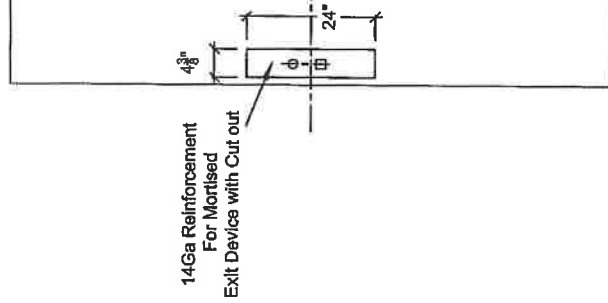
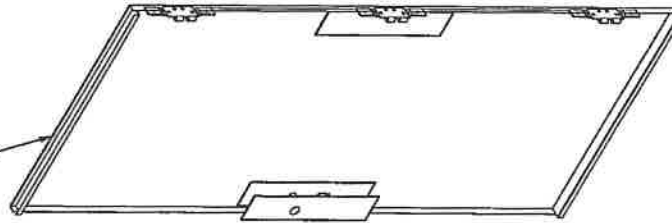
C of Exit Device

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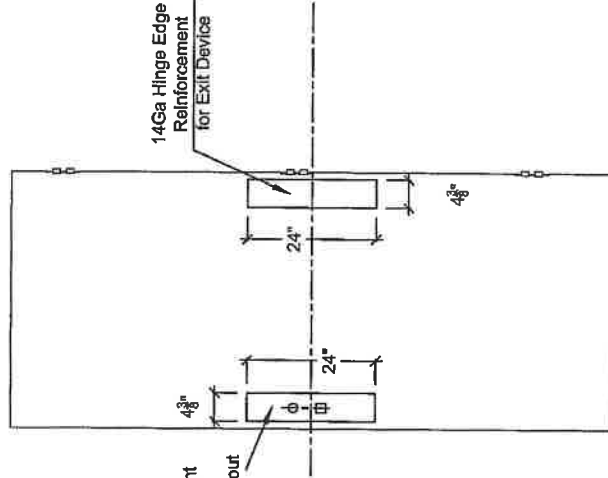
L.I.F. Industries, Inc.
Long Island Fireproof Door

Active Door Mortised Exit Device Reinforcement Detail For Door "PC3"(Active)

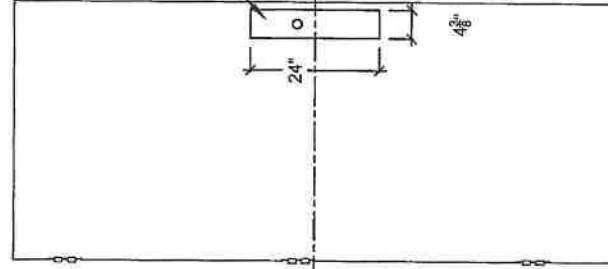
16Ga Top and Bottom Channel
18Ga Cap Channels (if Req'd)



Narrow Skin
Door
Interior Side



14Ga Latch Edge
Exit Device
Reinforcement
with Cutout



Wide Skin
Door
Exterior Side

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Windstorm Test			

14Ga Reinforcement For Concealed Vertical Rod Exit Device with Cut out

24"

4 3/8"

4 3/8"

Wide Skin Door Exterior Side

14Ga Hinge Edge Reinforcement for Exit Devices

24"

4 3/8"

24"

4"

4"

14Ga Reinforcement For Concealed Vertical Rod Exit Device with Cut out

14Ga Reinforcement For Latch Concealed Vertical Rod As Req'd

14Ga Reinforcement For Latch Concealed Vertical Rod As Req'd

Narrow Skin Door Interior Side

Vertical Rod

16Ga Bottom Channel Notched For Concealed Vertical Rod

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