

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK
CITY OF PORTLAND

Please Read
 Application And
 Notes, If Any,
 Attached

BUILDING INSPECTION

PERMIT ISSUED

Permit Number: 080638
 JUL 23 2008

CITY OF PORTLAND

This is to certify that BROWN J B & SONS / Don Construction
 has permission to Martins Point Commercial Office - Interior Renovations for tenant fit-up
 AT 901 WASHINGTON AVE PL 170 F001001

provided that the person or persons who accept this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission proceeds before this building or part thereof is locked or closed-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. Carey Cross
 Health Dept. _____
 Appeal Board _____
 Other _____
 Department Name

Jamie Burke 7/23/08
 Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

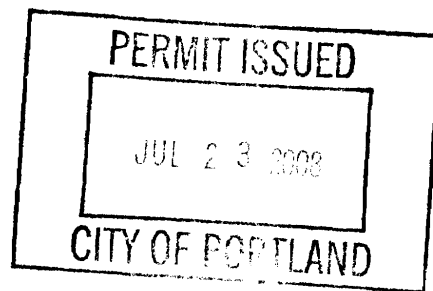
Permit No: 08-0638	Issue Date:	CBL: 170 F001001
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Location of Construction: 901 WASHINGTON AVE	Owner Name: BROWN J B & SONS	Owner Address: PO BOX 207	Phone:
Business Name:	Contractor Name: Dorens Construction	Contractor Address: 175 South Freeport Road Freeport	Phone: 2072339016
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: B-2

Past Use: Andover College Office	Proposed Use: Martins Point Commercial office - Interior renovations for tenant fit-up	Permit Fee: \$4,270.00	Cost of Work: \$425,000.00	CEO District: 4
Proposed Project Description: Martins Point Commercial office - Interior renovations for tenant fit-up		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>See Conditions</i>	INSPECTION: Use Group: B Type: 5B IBC-2003 Signature: <i>AMB 7/23/08</i>	
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Signature: _____ Date: _____		

Permit Taken By: ldobson	Date Applied For: 06/06/2008	Zoning Approval
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<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan <i>exemption given to Planning</i> Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>ok with conditions</i>	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: <i>9 7/9/08</i>	Historic Preservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>9</i>
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CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

A Pre-construction Meeting will take place upon receipt of your building permit.

 X Framing/Rough Plumbing/Electrical: Prior to Any Insulating or drywalling

 X Final/Certificate of Occupancy: Prior to any occupancy of the structure or use.

NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection.

If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.

CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED.



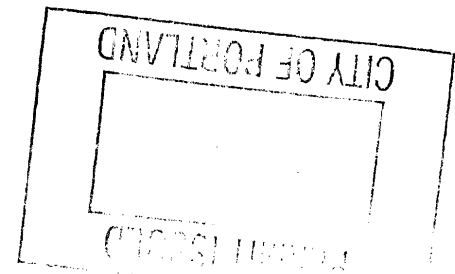
Signature of Applicant/Designee

7-23-08
Date



Signature of Inspections Official

7/23/08
Date



ELECTRICAL PERMIT

City of Portland, Me.



To the Chief Electrical Inspector, Portland Maine:
The undersigned hereby applies for a permit to make electrical installations in accordance with the laws of Maine, the City of Portland Electrical Ordinance, National Electrical Code and the following specifications:

Date July 17, 2008
Permit # 20084517
CBL# 170 F1

LOCATION: 901 Washington Ave METER MAKE & # _____
CMP ACCOUNT # _____ OWNER J B Brown
TENANT Martins Point PHONE # _____

								TOTAL EACH FEE	
OUTLETS	<u>15</u>	Receptacles	<u>6</u>	Switches		Smoke Detector	.20	<u>4.20</u>	
FIXTURES		Incandescent	<u>238</u>	Fluorescent	<u>238</u>	Strips	.20	<u>47.60</u>	
SERVICES		Overhead		Underground		TTL AMPS <800	15.00		
		Overhead		Underground		>800	25.00		
Temporary Service		Overhead		Underground		TTL AMPS	25.00		
							25.00		
METERS		(number of)					1.00		
MOTORS		(number of)					2.00		
RESID/COM		Electric units					1.00		
HEATING		oil/gas units		Interior		Exterior	5.00		
APPLIANCES		Ranges		Cook Tops		Wall Ovens	2.00		
		Insta-Hot		Water heaters		Fans	2.00		
		Dryers		Disposals		Dishwasher	2.00		
		Compactors		Spa		Washing Machine	2.00		
		Others (denote)					2.00		
MISC. (number of)		Air Cond/win					3.00		
		Air Cond/cent				Pools	10.00		
		HVAC		EMS		Thermostat	5.00		
		Signs					10.00		
		Alarms/res					5.00		
		Alarms/com					15.00		
		Heavy Duty(CRKT)					2.00		
		Circus/Carnv					25.00		
		Alterations					5.00		
		Fire Repairs					15.00		
		E Lights					1.00		
		E Generators					20.00		
PANELS		Service		Remote		Main	4.00		
TRANSFORMER		0-25 Kva					5.00		
		25-200 Kva					8.00		
		Over 200 Kva					10.00		
							TOTAL AMOUNT DUE		
							MINIMUM FEE/COMMERCIAL 55.00	MINIMUM FEE 45.00	

CONTRACTORS NAME T H Electric MASTER LIC. # 03828
ADDRESS PO Box 91 Freeport LIMITED LIC. # _____
TELEPHONE 865-3848

SIGNATURE OF CONTRACTOR Thomas Brennan

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 08-0638	Date Applied For: 06/06/2008	CBL: 170 F001001
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Location of Construction: 901 WASHINGTON AVE	Owner Name: BROWN J B & SONS	Owner Address: PO BOX 207	Phone:
Business Name:	Contractor Name: Doten Construction	Contractor Address: 175 South Freeport Rd. Freeport	Phone (207) 865-9012
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	

Proposed Use: Martins Point Commercial office - Interior renovations for tenant fit-up	Proposed Project Description: Martins Point Commercial office - Interior renovations for tenant fit-up
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 07/09/2008

Note:**Ok to Issue:**

- 1) Separate permits shall be required for any new signage.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Jeanine Bourke **Approval Date:** 07/23/2008

Note:**Ok to Issue:**

- 1) All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM 814 or UL 1479, per IBC 2003 Section 712.
- 2) Separate permits are required for any electrical, plumbing, or HVAC systems. Separate plans may need to be submitted for approval as a part of this process.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Capt Greg Cass **Approval Date:** 07/10/2008

Note:**Ok to Issue:**

- 1) Fire extinguishers required. Installation per NFPA 10
- 2) Emergency lights are required to be tested at the electrical panel.
- 3) Emergency lights and exit signs are required
- 4) Occupancies with an occupant load of 100 persons or more require panic hardware on all doors serving as a means of egress.
- 5) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.
- 6) A single source supplier should be used for all through penetrations.
- 7) Installation of a Fire Alarm system requires a Knox Box to be installed per city ordinance
- 8) Application requires State Fire Marshal approval.

Comments:

6/10/2008-mes: 20,600 sq ft change of use - requires a site plan review (school to offices) - I also need a plot plan showing the building and parking along with a parking analysis - see letter.

6/17/2008-mes: Vin Veroneau of JB Brown dropped off a parking site plan. - no site plan applied for yet as requested in my letter - will wait

7/18/2008-gg: received granted site plan exemption as of 7/18/08. /gg filed with permit (Jeannie)

Location of Construction: 901 WASHINGTON AVE	Owner Name: BROWN J B & SONS	Owner Address: PO BOX 207	Phone:
Business Name:	Contractor Name: Doten Construction	Contractor Address: 175 South Freeport Rd. Freeport	Phone (207) 865-9012
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	

7/21/2008-jmb: Spoke to Luke R. About details on plans: Need wall construction detail, ramp details, new vestibule, reflected ceiling plan, and demolition analysis for hazardous materials.

7/23/2008-jmb: Luke R. Submitted the details, he confirmed the ramp is no longer being rebuilt and is not included in this permit



General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>901 Washington Ave, Old Andover College space</u>		
Total Square Footage of Proposed Structure/Area <u>21,000.00 sq ft</u>		Square Footage of Lot <u>N/A</u>
Tax Assessor's Chart, Block & Lot Chart# <u>170</u> Block# <u>F</u> Lot# <u>1</u>	Applicant * <u>must</u> be owner, Lessee or Buyer* Name <u>Martin's Point Health Care</u> Address <u>331 Veranda St</u> City, State & Zip <u>Portland, Me 04103</u>	Telephone: <u>774.5801</u> <u>Gene Gillies</u>
Lessee/DBA (If Applicable) <u>Martin's Point Health Care</u>	Owner (if different from Applicant) Name <u>J. P. Brown</u> Address <u>81 W Commercial St</u> City, State & Zip <u>Portland 04101</u>	Cost Of Work: \$ <u>425,000.00</u> C of O Fee: \$ _____ Total Fee: \$ <u>4270.00</u>
Current legal use (i.e. single family) <u>College space to office space</u> If vacant, what was the previous use? _____ Proposed Specific use: <u>office space for Martin's Point</u> Is property part of a subdivision? <u>N/A</u> If yes, please name _____ Project description: <u>Demo walls as shown. Install new ceilings, carpet, painting, modular offices, office cubes, only 60' of new wall. New electrical, minor H.V.A.C., Upgrade sprinklers, plumbing to stay. Electrical + H.V.A.C. will apply. Sprinkler to get Fire Marshall Approval.</u>		
Contractor's name: <u>Doren's Construction</u> Address: <u>175 South Freeport Rd</u> City, State & Zip <u>Freeport, Me 04032</u> Telephone: <u>865-4412</u> Who should we contact when the permit is ready: <u>Luke Rollins</u> Telephone: <u>233-9016</u> Mailing address: <u>Same</u>		

Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at www.portlandmaine.gov, or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: [Signature]

Date: 6/5/08

This is not a permit; you may not commence ANY work until the permit is issued.



Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

*Lee Urban- Director of Planning and Development
Marge Schmuckal, Zoning Administrator*

June 11, 2008

Luke Rollins
Dorens Construction
175 South Freeport Road
Freeport, ME 04032

cc: Gene Gillies
Martin's Point Health Care
331 Veranda Street
Portland, ME 04103

RE: 901 Washington Avenue – 170-F-001 – B-2 Zone – application #08-0638

Dear Mr. Rollins,

I am in receipt of your application to change the use of a building previously occupied by Andover College into offices for Martin's Point Health Care. Before I can complete my zoning review, I will need a site plan showing parking along with a parking analysis detailing all the uses on the site and required number of parking spaces. I need to determine whether the change of use has the required number of parking spaces on site as required by ordinance.

I will also bring to your attention that any change of use consisting of over 5,000 square feet of floor area requires a site plan review through the Planning Division. Your proposal is showing that approximately 21,000 square feet of floor area is involved with the proposed change of use. Please contact Barbara Barhydt at 874- 8699 of the Planning Division for more details on what will be required for the site plan submittal and review.

Your permit will be on hold until I receive the parking site plan and parking/use analysis. If you have any questions regarding this matter, please do not hesitate to contact me at 874-8695.

Very truly yours,

Marge Schmuckal
Zoning Administrator

Cc: Barbara Barhydt, Planning
File

J. B. BROWN & SONS

482 CONGRESS STREET
P.O. BOX 207
PORTLAND, MAINE 04112
PHONE 207-774-5908
FAX 207-774-0898

Date: June 17, 2008

To: Marge Schmuckal, Portland Zoning Administrator

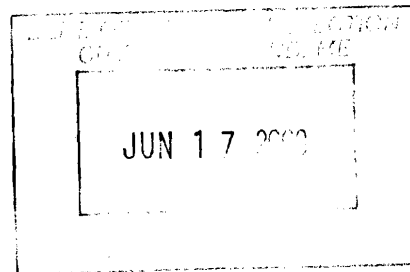
From: Vin Veroneau, J.B. Brown & Sons *VV*

Re: Martin's Point Parking – 901 Washington Avenue

As discussed, attached please find a site plan showing 567 parking spaces located on the 891-901 Washington Avenue site along with a letter approving the 44 spaces (included in the 567 count above) installed after approval of the 891 Washington Avenue building.

The parking ratio used during the approval process for the classroom space (19,620sf) was 1/100sf and the office space parking ratio 1/400sf. Given that Martin's Point intends to change to a lower parking usage, classroom space to office space, the amount of parking currently on site should meet the parking requirement without modifications.

Please do not hesitate to contact me with any additional questions.



Department of Planning & Development
Lee D. Urban, Director



CITY OF PORTLAND

Division Directors
Mark B. Adelson
Housing & Neighborhood Services

Alexander Q. Jaegerman, AICP
Planning

John N. Lufkin
Economic Development

November 20, 2003

Mr. Steven Reynolds
J.B. Brown & Sons
482 Congress Street
Portland, ME 04112

Mr. Michael Deluca
Deluca-Hoffman Associates, Inc.
778 Main St., Suite 8
South Portland, ME 04106

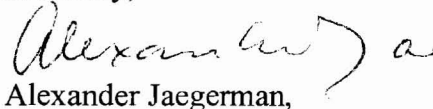
RE: After the Fact Parking Lot Expansion,
901 Washington Ave., (2003-0047)(170F001)

Dear Mr. Reynolds and Mr. Deluca:

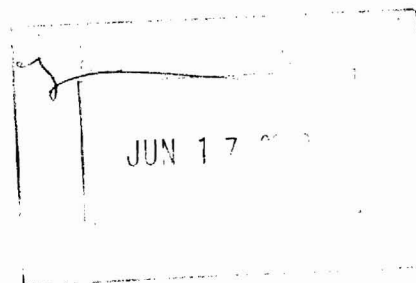
This letter is to approve the revision to the Washington Park project located at 901 Washington Avenue. The approved after-the-fact amendment includes the construction of 44 parking spaces, lighting, and landscaping along Washington Avenue. The revised plan has been reviewed and approved by the project review staff including representatives of the Planning, Public Works, Building Inspections, Fire and Parks Departments.

For future reference, please note that approval is required for changes to any approved site plan in the City of Portland.

Sincerely,


Alexander Jaegerman,

Planning Division Director



20080110



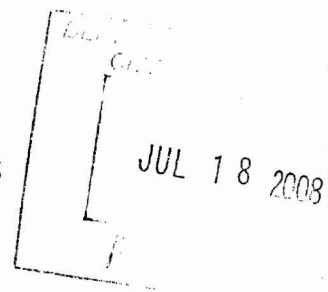
APPLICATION FOR EXEMPTION FROM SITE PLAN REVIEW

Martin's Point Health Care
 Applicant
331 Vesuvius St. Portland, Me 04103
 Applicant's Mailing Address
Gene Gillis 831-2602
 Consultant/Agent/Phone Number

7/30/08
 Application Date
Andover Site
 Project Name/Description
901 Washington Ave
 Address of Proposed Site
171 A 005
 CBL: ~~137 C 0H~~

Description of Proposed Development:
Renovate college space to office space, sqft. stay the same and a parking analysis has been complete. air building application # 08-0638

Please Attach Sketch/Plan of Proposal/Development	Applicant's Assessment (Yes, No, N/A)	Planning Office Use Only
Criteria for Exemptions: See Section 14-523 (4) on back side of form		
a) Within Existing Structures; No New Buildings, Demolitions or Additions	<u>existing structures</u> <u>yes</u>	✓
b) Footprint Increase Less Than 500 Sq. Ft.	<u>less than 500 sq ft</u> <u>yes</u>	✓
c) No New Curb Cuts, Driveways, Parking Areas	<u>No new curb cuts</u> <u>yes</u>	✓
d) Curbs and Sidewalks in Sound Condition/Comply with ADA	<u>yes</u>	✓
e) No Additional Parking/ No Traffic Increase	<u>no</u>	✓
f) No Stormwater Problems	<u>no</u>	✓
g) Sufficient Property Screening	<u>yes</u>	✓
h) Adequate Utilities	<u>yes</u>	✓





PORTLAND, MAINE

Planning Division

Barbara Barhydt, Development Review Services Manager

Called Mr. Voring - 7/17/08

- Rest of building is office + has been office for last 10 years - ME med has 6,000 sq ft for remote monitoring with 2 employees. The rest of the office space is for operations + accounting.

The former MBWA ~~building~~ ^{space} occupied by Time Warner. The free-standing structure is currently occupied by Martins Point. The office conversion is only for the Andover portion of the building.

- Tom Errico checked trip generation rates + the office use has a lower rate than a college / community college rate. (over)

389 Congress Street, 4th floor • Portland, ME • (207) 874-8699 • Fx 756-8258

Email: bab@portlandmaine.gov

J. B. BROWN & SONS

482 CONGRESS STREET
P.O. BOX 207
PORTLAND, MAINE 04112
PHONE 207-774-5908
FAX 207-774-0898

Called
Gene Gillias
on 7/8/08
and told him
we needed:
1) site plan
2) # of employees
3) use before & after
(Tom Emig)

Date: June 17, 2008

To: Marge Schmuckal, Portland Zoning Administrator

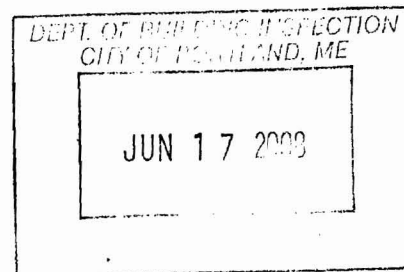
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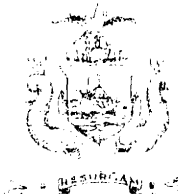
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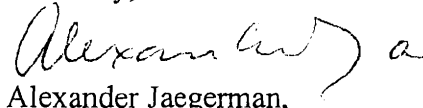
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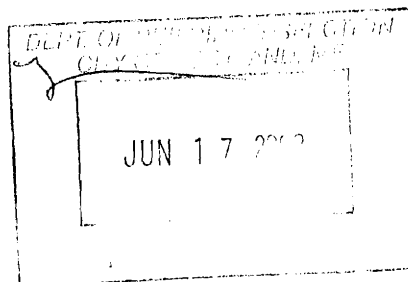
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For future reference, please note that approval is required for changes to any approved site plan in the City of Portland.

Sincerely,


Alexander Jaegerman,

Planning Division Director





Memo

To: City of Portland, Planning Division
From: Ann Tucker, Director Support Services
CC: [Click [here](#) and type name]
Date: 7/10/2008
Re: 901 Washington Avenue

This memo is to address the business use of 901 Washington Avenue (formerly Andover College). Martin's Point will be using the location for administrative business use. The department types that will be housed in this location are: Human Resources, Information Systems, Finance, Billing. There will be approximately 130 employees residing in the new location on opening day. The number will increase as our business operations expand over the next 5 years to over 200 employees.

The site plan is attached. There isn't any modifications being made to the exterior site. The landlord, JB Brown has provided this plan and should there be questions, Vin Veroneau at 774-5908 will be happy to answer any questions.

Thank you.

Department of Planning & Development
Lee D. Urban, Director



CITY OF PORTLAND

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Housing & Neighborhood Services

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Mr. Steven Reynolds
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Mr. Michael Deluca
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Sincerely,


Alexander Jaegerman,

Planning Division Director

DOTEN'S CONSTRUCTION, INC.

1675

175 SOUTH FREEPORT ROAD
 FREEPORT, MAINE 04032
PHONE (207) 865-4412
FAX (207) 865-6373

PROPOSAL SUBMITTED TO <i>City of Portland</i>		PHONE <i>(cell) 233-9003</i>	DATE <i>7/22/08</i>
STREET <i>Attn: Code Enforcement</i>		JOB NAME <i>Andover Space Washington Ave</i>	
CITY, STATE and ZIP CODE		JOB LOCATION <i>841 Washington Ave</i>	
ARCHITECT	DATE OF PLANS		JOB PHONE

We hereby submit specifications and estimates for:

New Martin's Point Office Space.

*New wall construction is approx 40' in entire space,
 non-structural, 3^{5/8}" metal studs, 16" o.c with 1 layer of
 fire-coded drywall each side insulated.*

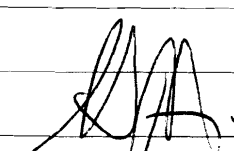
Job 22-08

We Propose hereby to furnish material and labor — complete in accordance with above specifications, for the sum of:

Payment to be made as follows: _____ dollars (\$ _____).

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized Signature _____



Note: This proposal may be withdrawn by us if not accepted within _____ days.

Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature _____

Date of Acceptance: _____

Signature _____

DOTEN'S CONSTRUCTION, INC.

1676

175 SOUTH FREEPORT ROAD
 FREEPORT, MAINE 04032
 PHONE (207) 865-4412
 FAX (207) 865-6373

PROPOSAL SUBMITTED TO <p style="font-size: 18pt; text-align: center;">City of Portland,</p>	PHONE <p style="font-size: 18pt;">Call 233-9003</p>	DATE <p style="font-size: 18pt;">7/22/88</p>
STREET <p style="font-size: 18pt;">Attn: Code Enforcement Dept.</p>	JOB NAME <p style="font-size: 18pt;">Andover Space Washington Ave</p>	
CITY, STATE and ZIP CODE	JOB LOCATION <p style="font-size: 18pt;">841 Washington Ave.</p>	
ARCHITECT	DATE OF PLANS	JOB PHONE

We hereby submit specifications and estimates for:

New Martin's Point Office Space

The existing site doesn't have Hazardous Materials prior to construction nor after construction. The site is clean of any Hazardous Materials.

A. Doten
owner.

We Propose hereby to furnish material and labor — complete in accordance with above specifications, for the sum of:

Payment to be made as follows: _____ dollars (\$ _____).

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized Signature _____

Note: This proposal may be withdrawn by us if not accepted within _____ days.

Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature _____

Date of Acceptance: _____

Signature _____



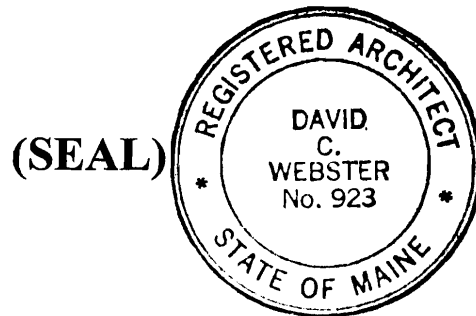
Accessibility Building Code Certificate


Designer: PDT Architects

Address of Project: 901 Washington Avenue

Nature of Project: Interior Renovation

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature: 

Title: Principal

Firm: PDT Architects

Address: 49 Dartmouth Street
Portland, ME 04101

Phone: 207-774-1059

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Certificate of Design

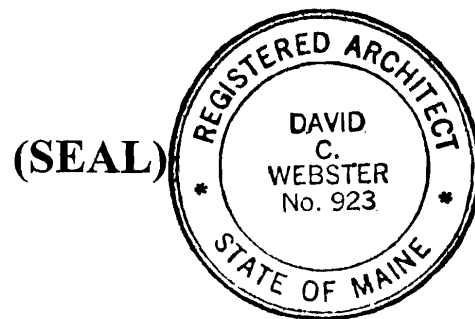
Date: 11 June 2008

From: David C. Webster, PDT Architects

These plans and / or specifications covering construction work on:

Former Andover College space on Washington Avenue in Portland, Maine.

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2003 International Building Code* and local amendments.



Signature: 

Title: Principal

Firm: PDT Architects

Address: 49 Dartmouth Street

Portland, ME 04101

Phone: 207-775-1059

For more information or to download this form and other permit applications visit the Inspections Division on our website at www.portlandmaine.gov



Certificate of Design Application

From Designer: Todd Kilborn
 Date: 11 June 2008
 Job Name: Andover College Space Alterations and Fit-Up
 Address of Construction: Washington Avenue in Portland, Maine

2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year IBC 2003 Use Group Classification (s) B
 Type of Construction 5B To be confirmed/certified
 Is there a Fire suppression system in Accordance with Section 903.3.1 of the 2003 IBC? Supervisory alarm system?
 Is the Structure mixed use? no If yes, separated or non separated or non separated (section 302.3) _____
 Geotechnical/Soils report required? (See Section 1802.2) N/A

Structural Design Calculations

_____ Submitted for all structural members (106.1 – 106.11)

Design Loads on Construction Documents (1603)

Floor Area Use	Loads Shown
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Wind loads (1603.1.4, 1609)

_____ Design option utilized (1609.1.1, 1609.6)
 _____ Basic wind speed (1809.3)
 _____ Building category and wind importance Factor, w
 table 1604.5, 1609.5
 _____ Wind exposure category (1609.4)
 _____ Internal pressure coefficient (ASCE 7)
 _____ Component and cladding pressures (1609.1.1, 1609.6.2.2)
 _____ Main force wind pressures (7603.1.1, 1609.6.2.1)

Earth design data (1603.1.5, 1614-1623)

_____ Design option utilized (1614.1)
 _____ Seismic use group ("Category")
 _____ Spectral response coefficients, S_D & S_{D1} (1615.1)
 _____ Site class (1615.1.5)

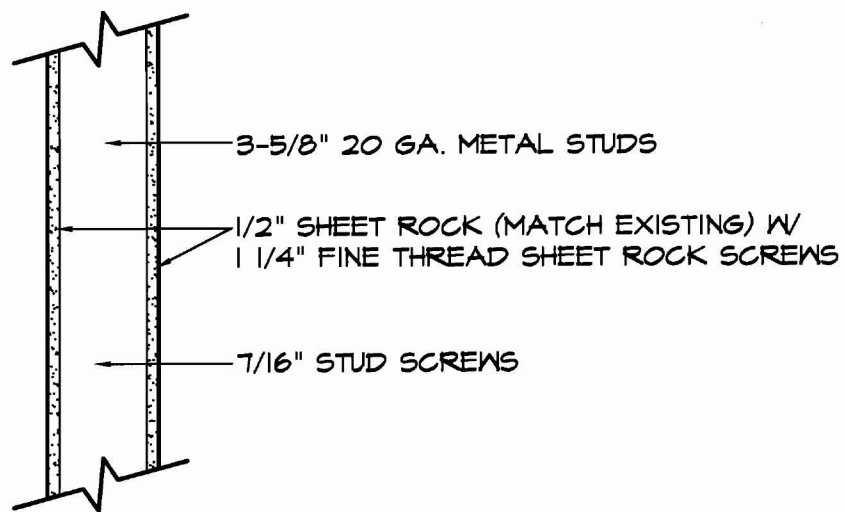
_____ Live load reduction
 _____ Roof *live* loads (1603.1.2, 1607.11)
 _____ Roof snow loads (1603.7.3, 1608)
 _____ Ground snow load, P_g (1608.2)
 _____ If $P_g > 10$ psf, flat-roof snow load P_f
 _____ If $P_g > 10$ psf, snow exposure factor, C_e
 _____ If $P_g > 10$ psf, snow load importance factor, I_s
 _____ Roof thermal factor, C_t (1608.4)
 _____ Sloped roof snowload, P_s (1608.4)
 _____ Seismic design category (1616.3)
 _____ Basic seismic force resisting system (1617.6.2)
 _____ Response modification coefficient, R , and
 deflection amplification factor C_d (1617.6.2)
 _____ Analysis procedure (1616.6, 1617.5)
 _____ Design base shear (1617.4, 1617.5.1)

Flood loads (1803.1.6, 1612)

_____ Flood Hazard area (1612.3)
 _____ Elevation of structure

Other loads

_____ Concentrated loads (1607.4)
 _____ Partition loads (1607.5)
 _____ Misc. loads (Table 1607.8, 1607.6.1, 1607.7,
 1607.12, 1607.13, 1610, 1611, 2404)



1 TYPICAL INTERIOR WALL
1 1/2"=1'-0"



ARCHITECTURE
INTERIOR DESIGN
PLANNING

49 DARTMOUTH STREET
PORTLAND, MAINE 04101
www.pdtarchs.com

© 2008 PDT Architects

Martin's Point Healthcare - Andover Space
Portland, Maine

TITLE
Building Materials -
Interior Walls

JOB # 08-050

DATE 22 JULY 2008

SCALE 1 1/2"=1'-0"

SHEET

SKA1



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Corpus Christi, Texas
USA 78405-3399
Tel: 800-531-3111, 361-888-5591
Fax: 800-531-3108, 361-888-6510
www.hortondoors.com
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ARCHITECTURAL DETAILS

AUTOMATIC SWING DOORS & OPERATORS - LOW ENERGY

EasyAccess® Series 7100 Surface Applied
Single & Pair with Inswing or Outswing Arm

B8.6
Jan 08

Standard Packages

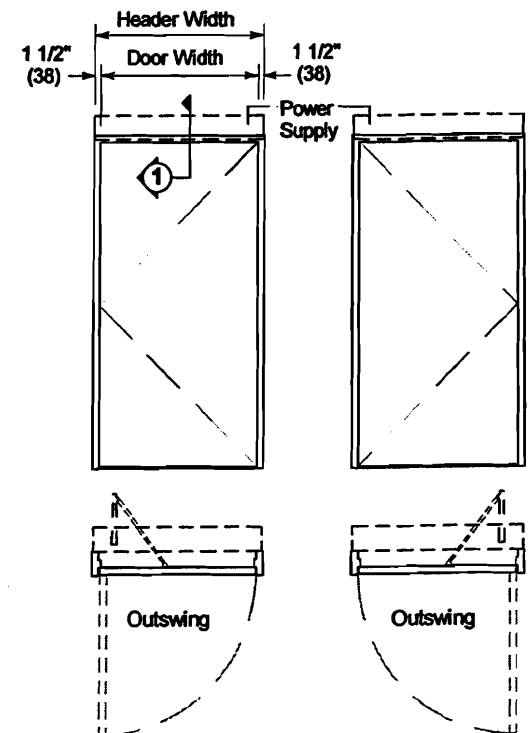
Single Units		Pair Units	
Types: LH, RH, LHR, RHR		Types: LH-RH, LHR-RHR	
Door Width	Header Width	Door Pair Width	Header Width
3'-0" (914)	3'-3" (991)	5'-0" (1524)	5'-3" (1600)
3'-6" (1067)	3'-9" (1143)	6'-0" (1829)	6'-3" (1905)
		7'-0" (2133)	7'-3" (2210)

Anodized Finish: Clear or Dark Bronze

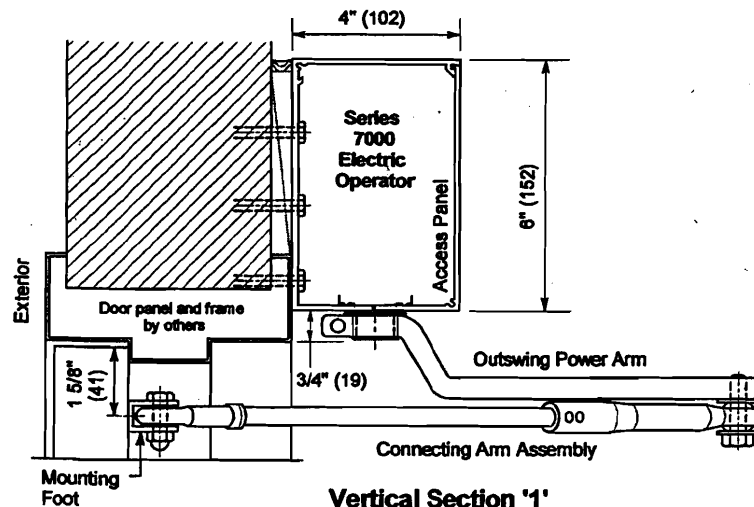
For additional equipment information see Architectural Specs starting on p. B9.0.

Installation and Operation

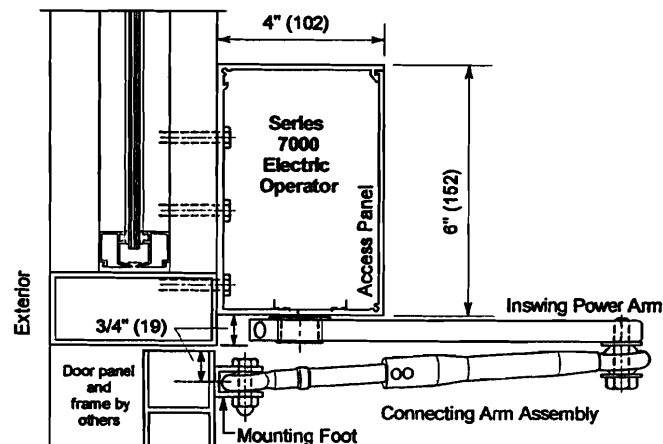
- Swing door header is surface mounted onto frame and connecting arm assembly is mounted to face of door panel. Frame and door panel to be provided by others.
- Electrical: Provide 120 VAC, 60 cycle, single phase, 15 amp service (in conduit) to each swing door unit on a dedicated 20 amp circuit breaker routed into header. Maximum current draw is 3.15 amps (see page B8.4).
- Unit to be actuated by push plate or push button switch mounted on each side of opening for two-way traffic (see page B8.5).



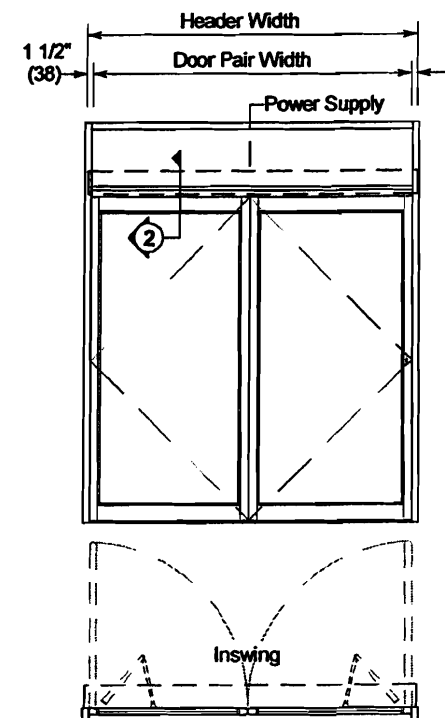
Single Units
Floor Plans with Elevations
LHR & RHR shown. LH & RH are Inswing



Vertical Section '1'



Vertical Section '2'



Pair Unit
Floor Plan with Elevation
LH-HR shown. LHR-RHR is Outswing



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The Automatic Choice

GENERAL OPERATION

AUTOMATIC SWING DOORS & OPERATORS - LOW ENERGY

EasyAccess® Series 7000 & HD-Swing® Series 4000LE
Typical Activation

B8.5
Jan 08

Standard Packages

Activating Device to be located on each side of opening for two-way traffic as per ANSI Safety Standard A117.1

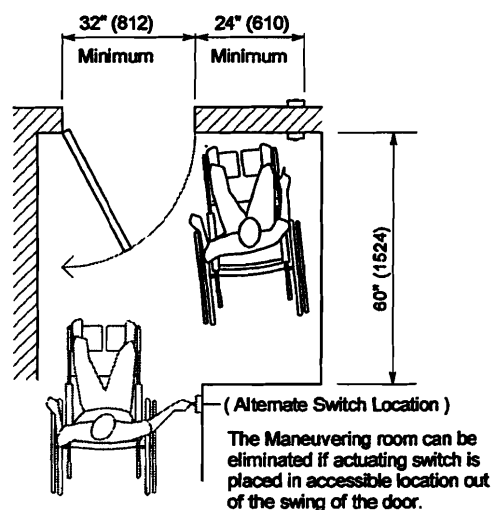
Automatic and/or Manual Operation

Automatic:

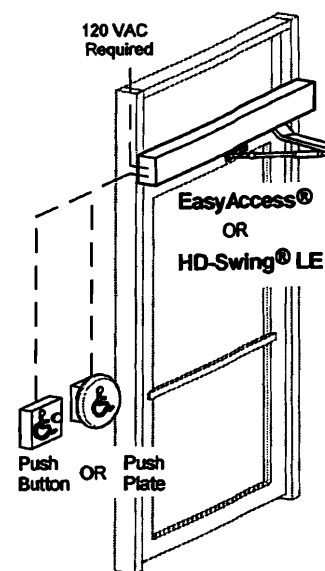
Pushbutton switch actuates door open; door closes after time delay expires using spring force of less than 15 pounds (67 N). Operators include the following variable adjustments so as to comply with ANSI Standard A156.19:
Opening speed - 4 to 6 seconds;
Closing speed - 4 to 6 seconds.

Manual:

Push-N-Go™: Manually pushing door activates automatic opening cycle; door closes after time delay expires.



ADA Floor Space Requirements

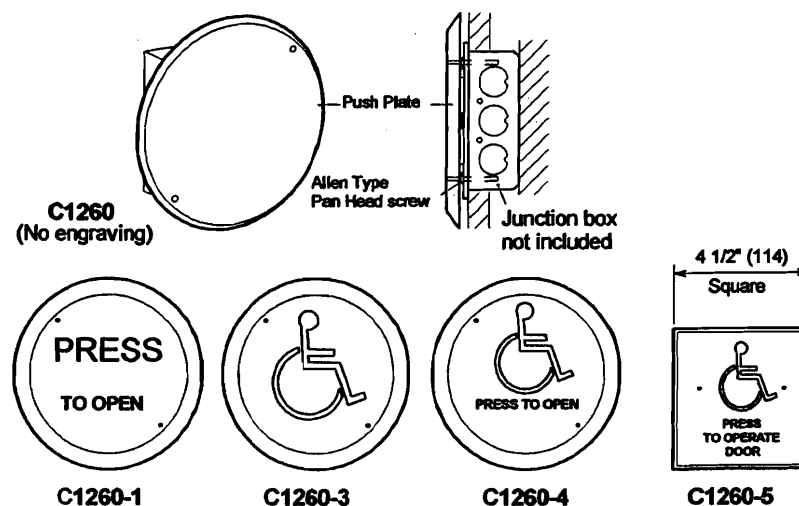


Typical Surface Mounted Operator

C1260 (Plain) -

6 1/4" (159) diameter brushed stainless steel push plate and microswitch assembly with momentary contact.

Assembly mounts to standard junction box, 4" (102) square x 1 1/2" (38) deep (not included) with four allen types screws (included) which are accessible through two holes in the front face of the push plate.



C1260-1, 3 & 4 (Engraved) -

The plate can be engraved with the international handicap symbol and/or a message as shown (engraved symbol and letters colored blue).

C1315-2 -

Momentary contact microswitch assembly with 1" (25) diameter red button with junction box. Junction box is 4" (102mm) square x 1 1/2" (38) deep, molded plastic with 1/8" (3) thick blue plastic cover with raised white lettering and handicap logo. This unit may be surface mounted on the wall or a post.

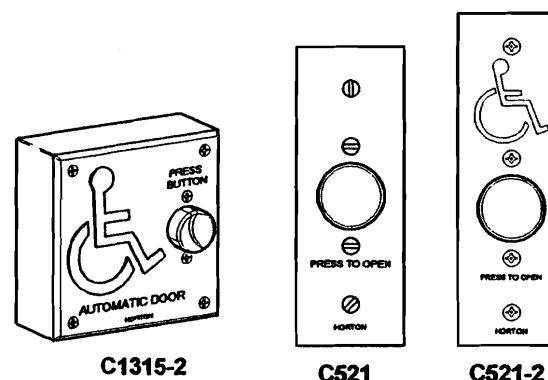
C521 -

Jamb mounted. Black face plate with a red button. 1 3/4" x 4 1/2" (44 x 114).

C521-2 -

Jamb mounted. Black face plate with a red button. 1 3/4" x 5" (44 x 127).

If Radio Control required, specify with "RC" behind item number.





▲ Brighton Landing, Brighton, Mass.
 Architect: ADD Inc, Cambridge, Mass.
 Glazing Contractor: Ipswich Bay Glass Company, Rowley, Mass.

Trifab® VG (VersaGlaze®)

Trifab VG 450, 451 & 451T (Thermal) Framing Systems

Design versatility with unmatched fabrication flexibility

Trifab VG (VersaGlaze) is built on the proven and successful Trifab platform – with all the versatility its name implies. Trifab set the standard and Trifab VG improves upon it. There are enough fabrication, design and performance choices to please the most discerning building owner, architect and installer. Plus the confidence a tried and true

framing system instills. Select from four glazing applications, four fabrication methods and multiple infill choices. Consider thermal options and performance, SSG and Weatherseal alternatives and your project takes an almost custom shape whether your architecture is traditional or modern and the building is new or retrofitted.

Aesthetics

Trifab 450 has 1³/₄-inch sight lines and both Trifab 451 and 451T have 2-inch sight lines, while all three have a 4¹/₂-inch frame depth. Designers can not only choose front, center or back glass planes, they can now add the versatility of multi-plane glass applications, thus allowing a greater range of design

possibilities for specific project requirements and architectural styles. Structural Silicone Glazing (SSG) and Weatherseal options further expand the designer's choices.

Trifab VG can be used on almost any project due to virtually seamless incorporation of Kawneer entrances, Sealair® windows or GLASSvent™ for visually frameless ventilators. These framing systems can also be packaged with Kawneer curtain walls and overhead glazing, thereby providing owner, architect and installer with proven, tested and quality products from a single source supplier.

Economy

Trifab VG offers four fabrication choices to suit your project:

- **Screw Spline** – for economical continuous runs utilizing two piece vertical members. Provides the option to pre-assemble units with controlled shop labor costs and smaller field crews for handling and installation.
- **Shear Block** – for punched openings or continuous runs using tubular moldings. Provides the option to pre-assemble multi-lite units using shear block clips under controlled shop labor conditions. Clips provide tight joints for transporting large units. Less field time is necessary to fill large openings.
- **Stick** – for fast, easy field fabrication. Field measurements and material cuts can be done when metal is on the job.
- **Type B** – for multi-lite punched openings. Provide option for pre-assembled units for installation into single openings and controlled shop labor costs. Head and sill running through provide fewer joints and require less time to fill large openings.

Trifab VG 450, 451 and 451T can be flush glazed from either the inside or outside. The Weatherseal option provides an alternative to the structural silicone glazed vertical mullions.



Kawneer Company, Inc.
Technology Park/Atlanta
555 Guthridge Court
Norcross, GA 30092
770/449-5555
www.kawneer.com

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▲ AmeriCredit Financial Services, Arlington, Texas
Architect: Carter+Burgess Inc., Fort Worth, Texas
Glazing Contractor: Southern Glass & Mirror, Inc., Plano, Texas

This ABS/ASA rigid polymer extrusion allows complete inside glazing and creates a flush glass appearance on the building exterior, without the added labor of scaffolding or swing stages. Optional patented HP Flashing™ and HP Interlock clip are engineered to eliminate the perimeter sill fasteners and their associated blind seals and are compatible with all glass planes.

Performance

Kawneer's patented IsoLock™ Thermal Break option is available on Trifab VG 451T. This process creates a composite section and prevents dry shrinkage.

U-factor, CRF values and STC ratings for Trifab VG vary depending upon the glass plane application. Project specific U-factors can now be determined for each individual project. (See Kawneer Architectural Manual or Website for additional information)

Finishes

Permanodic® anodized finishes are available in Class I and Class II in seven different choices and meet AAMA 611.

Painted finishes are available in 42 standard choices and unlimited custom colors and include Fluropon®*, Acroflur™** and Permardize®§, which meet or exceed AAMA 2604 or AAMA 2605.

Powder coatings complete the "green" element with solvent-free high performance. Interpon®** D2000 Advance Powder Coatings are available in numerous standard colors and meet or exceed AAMA 2604.

* Fluropon is a registered trademark and Acroflur is a trademark of The Valspar Corporation

§ Permardize finishes are formulated by The Valspar Corporation for Kawneer

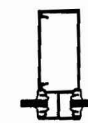
** Interpon is a registered trademark of Akzo Nobel

Performance Test Standards

Air Performance	ASTM E 283
Water	AAMA 501 and ASTM E 331
Structural	ASTM E 330
Thermal	AAMA 1503
Thermal Break	AAMA 505 and AAMA TIR-A8
Acoustical	AAMA 1801 and ASTM E 1425

Trifab VG 450

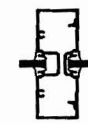
Trifab VG 451/451T



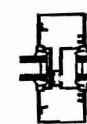
Front



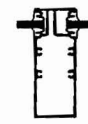
Front



Center



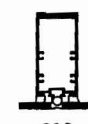
Center



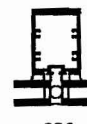
Back



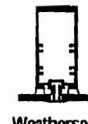
Back



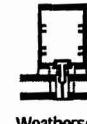
SSG



SSG



Weatherseal



Weatherseal



Multi-Plane



Multi-Plane

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
© Kawneer Company, Inc., 2005

Features

- Trifab® VG 450 is 4-1/2" deep with a 1-3/4" sightline
- Front, Center, Back or Multi-Plane glass applications
- Flush glazed from either the inside or outside
- Screw Spline, Shear Block, Stick or Type-B fabrication
- SSG / Weatherseal option
- 1/8", 1/4" or 3/8" infill options
- Permanodic® anodized finishes in 7 choices
- Painted finishes in standard and custom choices

Optional Features

- High performance interlocking flashing

Product Applications

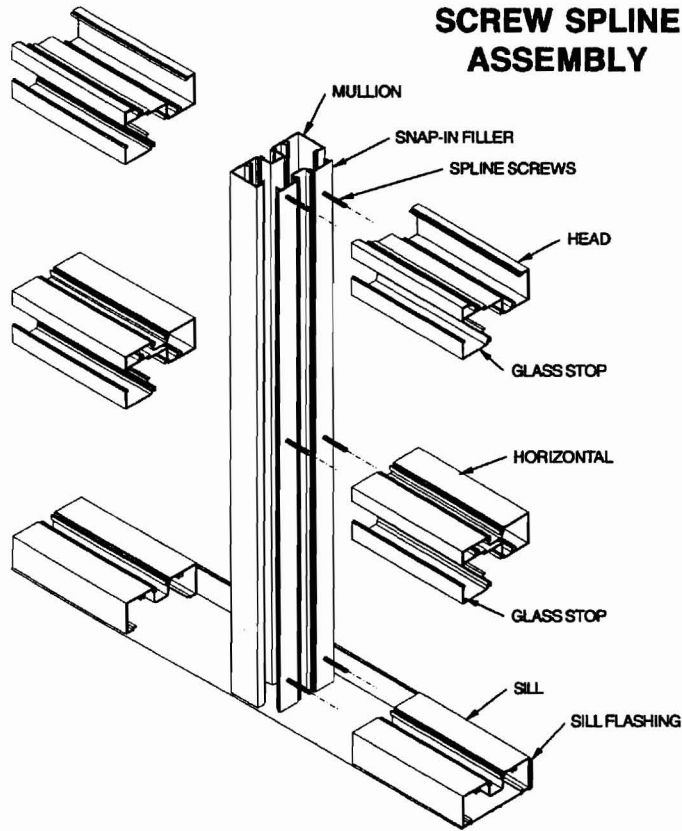
- Storefront, Ribbon Window or Punched Openings
- Single-span
- Integrated entrance framing allowing Kawneer standard entrances or other specialty entrances to be incorporated
- Kawneer Sealair® windows or GLASSvent™ are easily incorporated

For specific product applications,
Consult your Kawneer representative.



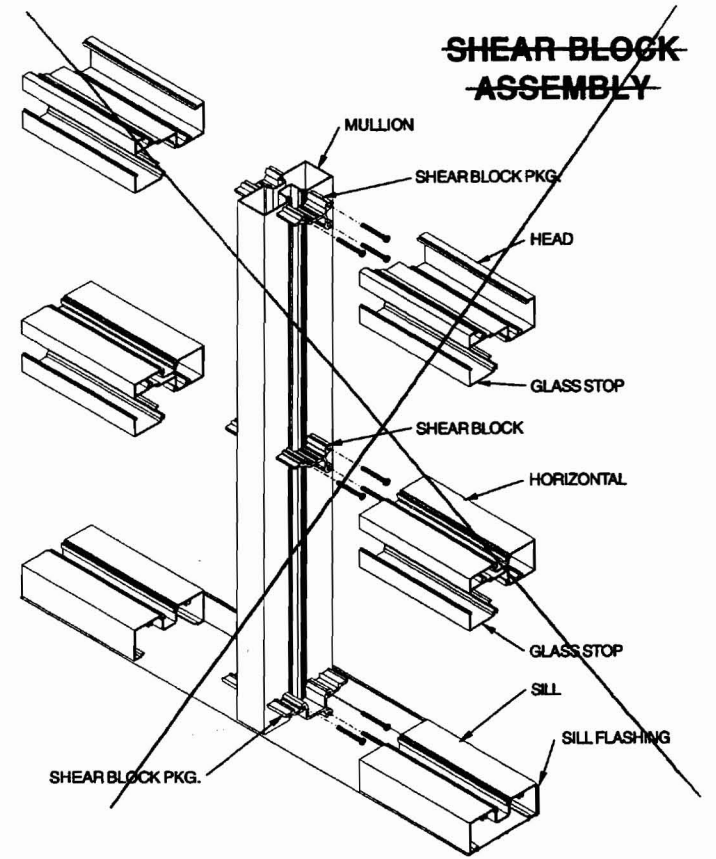
THE SPLIT VERTICAL IN THE SCREW SPLINE SYSTEM ALLOWS A FRAME TO BE INSTALLED FROM UNITIZED ASSEMBLIES. SCREWS ARE DRIVEN THROUGH THE BACK OF THE VERTICALS INTO SPLINES EXTRUDED IN THE HORIZONTAL FRAMING MEMBERS. THE INDIVIDUAL UNITS ARE THEN SNAPPED TOGETHER TO FORM A COMPLETED FRAME.

SCREW SPLINE ASSEMBLY



THE SHEAR BLOCK SYSTEM OF FABRICATION ALLOWS A FRAME TO BE PRE-ASSEMBLED AND INSTALLED AS A SINGLE UNIT. HORIZONTALS ARE ATTACHED TO THE VERTICALS WITH SHEAR BLOCKS.

SHEAR-BLOCK ASSEMBLY

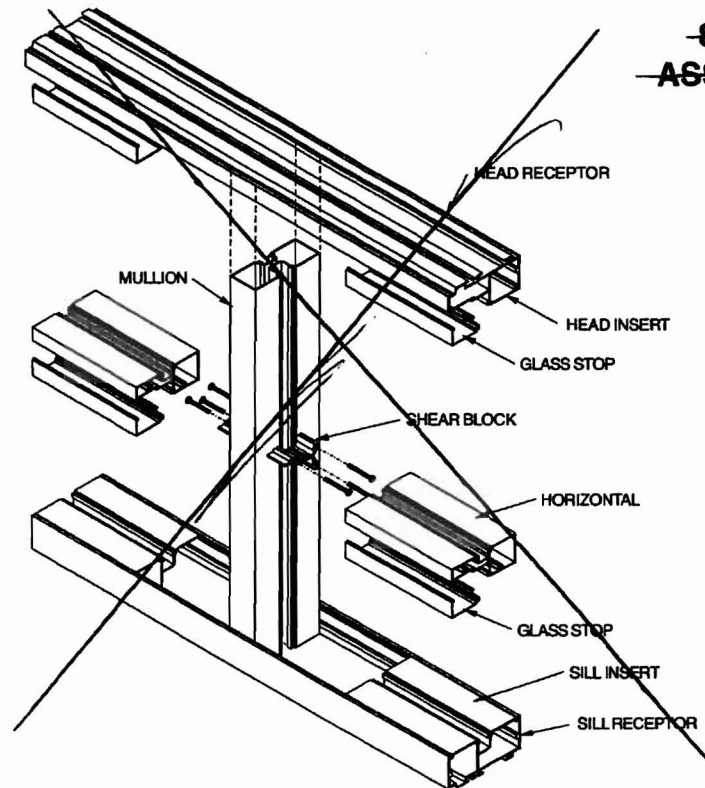


Laws and building and safety codes governing the design and use of glazed entrances, windows, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.
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THE STICK SYSTEM ALLOWS ON-SITE ASSEMBLY. HEAD AND SILL RECEPTORS ARE FASTENED TO THE SURROUND. VERTICAL MULLIONS ARE THEN INSTALLED IN THESE RECEPTORS AND ARE HELD IN PLACE BY SNAP-IN INSERTS. INTERMEDIATE HORIZONTAL MEMBERS ARE ATTACHED TO THE VERTICALS WITH SHEAR BLOCKS. FLASHING IS NOT REQUIRED.

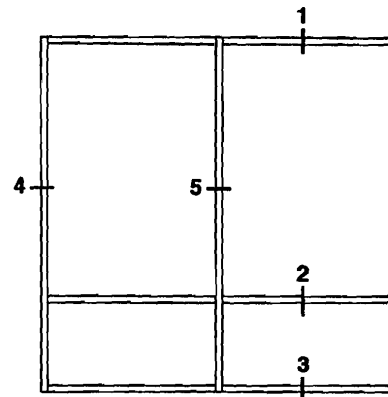
STICK ASSEMBLY



NOTE:

If the end reaction of the mullion (mullion spacing (ft.) times height (ft.) times specified windload (psf) divided by two) is more than 500 lbs., the optional mullion anchors must be used. (See page 14)

SCALE 3" = 1'-0"



ELEVATION IS NUMBER KEYED TO DETAILS

SCREW SPLINE	SHEAR BLOCK	STICK
CAD Details = TF_VG_450-SS-Center-CAD.zip	CAD Details = TF_VG_450-SB-Center-CAD.zip	CAD Details = TF_VG_450-Stick-Center-CAD.zip
<p>4 JAMB</p> <p>5 VERTICAL</p>	<p>4 JAMB</p> <p>5 VERTICAL</p>	<p>4 JAMB</p> <p>5 VERTICAL</p>
<p>1 HEAD</p>	<p>1 HEAD</p>	<p>1 HEAD</p>
<p>2 HORIZONTAL</p>	<p>2 HORIZONTAL</p>	<p>2 HORIZONTAL</p>
<p>3 SILL</p>	<p>3 SILL</p>	<p>3 SILL</p>
*See page 14 for Optional High Performance Flashing.	*See page 14 for Optional High Performance Flashing.	

Laws and building and safety codes governing the design and use of glazed entrance, window, and curtain wall products vary widely. Kawneer does not control the selection of product configurations, operating hardware, or glazing materials.

Kawneer reserves the right to change configuration without prior notice when deemed necessary for product improvement.

SECTION 08410 ALUMINUM ENTRANCES AND STOREFRONTS

This suggested guide specification has been developed using the current edition of the Construction Specifications Institute (CSI) "Manual of Practice," including the recommendations for the CSI 3 Part Section Format and the CSI Page Format. Additionally, the development concept and organizational arrangement of the American Institute of Architects (AIA) MASTERSPEC Program have been recognized in the preparation of this guide specification. Neither CSI nor AIA endorse specific manufacturers and products. The preparation of the guide specification assumes the use of standard contract documents and forms, including the "Conditions of the Contract," published by the AIA.

PART 1 - GENERAL

1.01 Summary

- A. Section Includes: Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
1. Types of Kawneer Aluminum Storefront Systems include:
- a. Trifab® VG 450 Framing System - 1-3/4" x 4-1/2" nominal dimension; Non-Thermal; Front, Center, Back, Multi-Plane, Structural Silicone or Weatherseal Glazed (Type-B); Screw Spline, Shear Block, Stick or Punched Opening Fabrication.

EDITOR NOTE: BELOW RELATED SECTIONS ARE SPECIFIED ELSEWHERE HOWEVER KAWNEER RECOMMENDS SINGLE SOURCE RESPONSIBILITY FOR ALL OF THESE SECTIONS AS INDICATED IN 2.07 SOURCE QUALITY CONTROL.

B. Related Sections:

1. Division 7 Section "Vapor Barriers" between glazed wall systems and adjacent construction
2. Division 7 Section "Fire Stopping"
3. Division 7 Section "Joint Sealants" for joint sealants installed as part of aluminum entrance and storefront systems
4. Division 8 Section "Aluminum Terrace Doors and Frames"
5. Division 8 Section "Sliding Doors"
6. Division 8 Section "Aluminum Entrances and Storefronts"
7. Division 8 Section "Automatic Entrance Doors"
8. Division 8 Section "Sliding Aluminum Storefronts"
9. Division 8 Section "Aluminum Windows"
10. Division 8 Section "Finish Hardware"
11. Division 8 Section "Glass and Glazing"
12. Division 8 Section "Glazed Aluminum Curtain Walls"
13. Division 8 Section "Slope Glazing"

1.02 References (Industry Standards)

EDITOR NOTE: REFER TO INDEX FOR ANY AND ALL APPLICABLE STANDARDS.

1.03 System Description

EDITOR NOTE: AIR AND WATER PERFORMANCE RESULTS ARE BASED UPON ASTM AND AAMA STANDARDS FOR STOREFRONT FRAMING SYSTEMS. HIGHER PERFORMANCE RESULTS HAVE BEEN CERTIFIED AND ARE AVAILABLE. CONSULT YOUR LOCAL KAWNEER REPRESENTATIVE CONCERNING SPECIFIC PROJECT PERFORMANCE REQUIREMENTS.

A. Storefront System Performance Requirements:

EDITOR NOTE: PROVIDE WINDLOAD DESIGN PRESSURES IN PSF AND INCLUDE APPLICABLE BUILDING CODE AND YEAR EDITION

1. Wind loads: Provide framing system; include anchorage, capable of withstanding wind load design pressures of (____) lbs./sq. ft. inward and (____) lbs./sq. ft. outward. The design pressures are based on the (____) Building Code; (____) Edition.
2. Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft² at a static air pressure differential of 6.24 psf.
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.
4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.

1.04 Submittals

- A. General: Prepare, review, approve, and submit specified submittals in accordance with "Conditions of the Contract" and Division 1 Submittals Sections. Product data, shop drawings, samples, and similar submittals are defined in "Conditions of the Contract."
- B. Quality Assurance/Control Submittals:
1. Test Reports: Submit certified test reports showing compliance with specified performance characteristics.

1.05 Warranty

- A. Project Warranty: Refer to "Conditions of the Contract" for project warranty provisions.
- B. Manufacturer's Product Warranty: Submit, for Owner's acceptance, manufacturer's warranty for entrance system as follows:
1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by Kawneer. In addition, welded door corner construction shall be supported with a limited lifetime warranty for the life of the door under normal use.

1.06 Quality Assurance

- A. Qualifications:
1. Installer Qualifications: Installer experienced (as determined by contractor) to perform work of this section who has specialized in the installation of work similar to that required for this project and who is acceptable to product manufacturer.

Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

Kawneer does not control the selection of product configurations, operating hardware, or glazing materials, and assumes no responsibility therefor.

© Kawneer Company, Inc., 2005



2. **Manufacturer Qualifications:** Manufacturer capable of providing field service representation during construction, approving acceptable installer and approving application method.
 - B. **Pre-Installation Meetings:** Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's installation instructions, and manufacturer's warranty requirements.
- 1.07 **Delivery, Storage, and Handling**
- A. **Ordering:** Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
 - B. **Packing, Shipping, Handling and Unloading:** Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
 - C. **Storage and Protection:** Store materials protected from exposure to harmful weather conditions. Handle framing material and components to avoid damage. Protect framing material against damage from elements, construction activities, and other hazards before, during and after framing installation.

PART 2 - PRODUCTS

EDITOR NOTE: RETAIN BELOW ARTICLE FOR PROPRIETARY METHOD SPECIFICATION; ADD PRODUCT ATTRIBUTES, PERFORMANCE CHARACTERISTICS, MATERIAL STANDARDS, AND DESCRIPTIONS AS APPLICABLE. DO NOT USE THE PHRASE "OR EQUAL"; "OR APPROVED EQUAL," OR SIMILAR PHRASES. USE OF SUCH PHRASES CAUSES AMBIGUITY IN THE SPECIFICATIONS BECAUSE OF THE DIFFERENT INTERPRETATIONS AMONG THE DIVERGENT PARTIES OF THE CONSTRUCTION PROCESS AND READERS OF THE SPECIFICATIONS. SUCH PHRASES REQUIRE EXTENSIVE AND COMPLETE REQUIREMENTS (PROCEDURAL, LEGAL, REGULATORY, AND RESPONSIBILITY) FOR DETERMINING "OR EQUAL."

2.01 Manufacturers (Acceptable Manufacturers/Products)

A. Acceptable Manufacturers: Kawneer Company, Inc.

- | | | | |
|-------------|--------------------------|----|--------------------------------|
| 1. Address: | Kawneer Company, Inc. | or | Kawneer Company Canada Limited |
| | 555 Guthridge Court, | | 1051 Ellesmere Road |
| | Technology Park/Atlanta, | | Scarborough, Ontario M1P 2X1 |
| | Norcross, GA 30092 | | |
| Telephone: | 770 449 5555 | | 416 755 7751 |
| Fax: | 770 734 1560 | | 416 755 1829 |

2. Proprietary Product(s)/System(s): Kawneer Aluminum Storefront Systems.

- a. Kawneer Aluminum Storefront System
- b. Series: Trifab® VG 450 Framing System
- c. Framing Member Profile: 1-3/4" x 4-1/2" nominal dimension; Non-Thermal; Front, Center, Back, Multi-Plane, Structural Silicone or Weatherseal Glazed (Type B); Screw Spine, Shear Block, Stick or Punched Opening Fabrication.
- d. Finish/Color: (See 2.06 Finishes)

EDITOR NOTE: RETAIN BELOW FOR ALTERNATE MANUFACTURERS/PRODUCTS AS SPECIFIED IN THE CONTRACT DOCUMENTS. COORDINATE BELOW WITH BID DOCUMENTS (IF ANY), AND DIVISION 1 ALTERNATES SECTION. CONSULT WITH KAWNEER COMPANY FOR RECOMMENDATIONS ON ALTERNATE MANUFACTURERS AND PRODUCTS MEETING THE DESIGN CRITERIA AND PROJECT REQUIREMENTS. KAWNEER RECOMMENDS OTHER MANUFACTURERS REQUESTING APPROVAL TO BID THEIR PRODUCT AS AN EQUAL MUST SUBMIT THEIR REQUEST IN WRITING (10) DAYS PRIOR TO CLOSE OF BIDDING.

B. Alternate (Manufacturers/Products): In lieu of providing below specified base bid/contract manufacturer, provide below specified alternate manufacturers. Refer to Division 1 Alternates Section.

1. Base Bid/Contract Manufacturer/Product: Kawneer Company, Inc.
 - a. Kawneer Aluminum Storefront System
 - b. Series: Trifab® VG 450 Framing System
 - c. Framing Member Profile: 1-3/4" x 4-1/2" nominal dimension; Non-Thermal; Front, Center, Back, Multi-Plane, Structural Silicone or Weatherseal Glazed (Punched Opening); Screw Spine, Shear Block, Stick or Punched Opening Fabrication.
2. Alternate # ___ Manufacturer/Product:
 - a. Product:
 - b. Series:
 - c. Product Attributes:
 - 1.) Framing Member Profile:
3. Alternate # ___ Manufacturer/Product:
 - a. Product:
 - b. Series:
 - c. Product Attributes:
 - 1.) Framing Member Profile:

C. Substitutions:

1. General: Refer to Division 1 Substitutions for procedures and submission requirements.
 - a. Pre-Contract (Bidding Period) Substitutions: Submit written requests ten (10) days prior to bid date.
 - b. Post-Contract (Construction Period) Substitutions: Submit written request in order to avoid storefront installation and construction delays.
2. Substitution Documentation
 - a. Product Literature and Drawings: Submit product literature and drawings modified to suit specific project requirements and job conditions.
 - b. Certificates: Submit certificate(s) certifying substitute manufacturer (1) attesting to adherence to specification requirements for entrance system performance criteria, and (2) has been engaged in the design, manufacturer and fabrication of aluminum entrances for a period of not less than ten (10) years. (Company Name)
 - c. Test Reports: Submit test reports verifying compliance with each test requirement required by the project.

- A. Field Tests: Architect shall select storefront units to be tested as soon as a representative portion of the project has been installed, glazed, perimeter caulked and cured. Conduct tests for air infiltration and water penetration with manufacturer's representative present. Tests not meeting specified performance requirements and units having deficiencies shall be corrected as part of the contract amount.
1. Testing: Testing shall be performed by a qualified independent testing agency. Refer to Division 1 Testing Section for payment of testing and testing requirements. Testing Standard per AAMA 503, including reference to ASTM E 783 for Air Infiltration Test and ASTM E 1105 Water Infiltration Test.
 - a. Air Infiltration Tests: Conduct tests in accordance with ASTM E 783. Allowable air infiltration shall not exceed 1.5 times the amount indicated in the performance requirements or 0.09 cfm/ft², which ever is greater.
 - b. Water Infiltration Tests: Conduct tests in accordance with ASTM E 1105. No uncontrolled water leakage is permitted when tested at a static test pressure of two-thirds the specified water penetration pressure but not less than 6.24 psf.
 - B. Manufacturer's Field Services: Upon Owner's request, provide manufacturer's field service consisting of product use recommendations and periodic site visit for inspection of product installation in accordance with manufacturer's instructions.
- 3.04 Protection and Cleaning
- A. Protection: Protect installed product's finish surfaces from damage during construction. Protect aluminum storefront system from damage from grinding and polishing compounds, plaster, lime, acid, cement, or other harmful contaminants.
 - B. Cleaning: Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

DISCLAIMER STATEMENT

This guide specification is intended to be used by a qualified construction specifier. The guide specification is not intended to be verbatim as project specification without appropriate modifications for the specific use intended. The guide specification must be used and coordinated with the procedures of each design firm, and the particular requirements of a specific construction project.

END OF SECTION 08410

Fluoropon® is a registered trademark of The Valspar Corporation.
Interpon® is a registered trademark of Alcoa Nobel Coatings, Inc.



ARCHITECTURAL SPECIFICATIONS

For Flat & Insulating Glass

All flat glass supplied and all insulating glass manufactured by SIGCO, Inc. shall consist of annealed glass meeting ASTM C1036, tempered glass meeting ASTM C1048 and/or laminated glass meeting ASTM C1172.

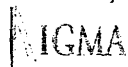
All laminated and tempered glass shall meet ANSI Z97.1 and CPSC 16 CFR 1201 as required by Federal, State and/or Municipal Safety Glazing codes.

SIGCO insulating units are manufactured with 2 or 3 lites of any combination of the above listed glass, separated by a varying air space from 3/16" to 3/4" using anodized aluminum spacer filled with a molecular sieve desiccant. The 2 or 3 lites of glass are hermetically sealed with either modified polysulfide, or a combination of polyisobutylene and modified polysulfide or silicone.

SIGCO units are manufactured and tested to comply with the Insulating Glass Certification Council (IGCC) certification requirements, meeting Class CBA of ASTM E-744 and ASTM E-773 test methods.

02/04

SIGCO, Inc. • 299 Presumpscot Street • Portland, ME 04103 • TEL (207) 775-2676 • NE (800) 876-3338 • FAX (207) 775-0291





CERTIFICATIONS AND WARRANTIES HEAT TREATED PRODUCTS

All heat treated glass manufactured by SIGCO shall be constructed with float glass which meets the requirements of both ASTM C-1036 and ASTM C-1048; the standard specifications for flat and heat treated glass. All fully tempered glass shall meet the test requirements of ANSI Z97.1 and the CSPC standard for architectural glazing materials, 16 CFR 1201, categories I and II. Fully tempered glass complying with the performance characteristics specified in these standards shall be permanently identified with Safety Glazing Certification Council (SGCC) label indicating certification of the product through independent third party testing.

SIGCO, Inc. • 48 Spiller Drive • Westbrook, ME 04092 • TEL. (207) 775-2676 • NF (800) 876-3338 • FAX (207) 775-0291





P.O. BOX 9
HENDERSON HARBOR, N. Y. 13651
PHONE 315-646-2234
FAX 315-646-2297

June 20, 2005
IGCC-1741A CBA
L04

NOTICE OF PRODUCT COMPLIANCE

LICENSEE: Mr. David McElhinny
SIGCO, Inc.
299 Presumpscot St.
Portland, ME 04103

PLANT: Portland, ME
PRODUCT CERTIFIED: IGCC-1741A
TEST METHOD: ASTM E773 & E774
DATE FABRICATED: 9/23/2004
TEST SIZE: 14 x 20-inches

GLASS TYPE: 3/16-inch clear

SPACER SIZE & MATERIAL: 3/8-inch Anodized Aluminum by Allmetal

FRAME CONSTRUCTION: Four Plastic keys by Allmetal; square cut

DESICCANT: Molsiv 4000 Molecular sieve by UOP; Two Long sides

PRIMARY SEALANT: PB-059B/PIB-29 Polyisobutylene by Adco

SECONDARY SEALANT: PRC 469 FM Modified Polysulfide by PRC-DeSoto

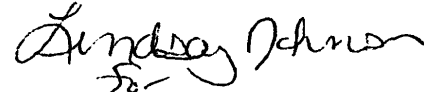
MUNTIN BARS OR GRILLS: Aluminum Muntins by Allmetal – Argon holes

OTHER COMMENTS: APPROVED ALTERNATES: Glass=Per Equivalency test, 3/16-inch, Acclimate #2 surface (1741A is for gas filled, 1741B is not gas filled but has four sides filled with desiccant)

CONCLUSION

After reviewing the enclosed report, IGCC has considered the results to be in compliance with ASTM E773 & E774, Class CBA requirements.

INSULATING GLASS CERTIFICATION COUNCIL



John G. Kent
Administrative Manager

CC: 14



SEAL DURABILITY OF SEALED INSULATING GLASS TEST REPORT
ASTM E 774

Standard Specification for the Classification of the Durability of Sealed Insulating Glass Units

Rendered to: Insulating Glass Certification Council
P.O. Box 730
Sackets Harbor, New York 13685

ATI #: 54467.01-119-28
Date Received: 10/19/04
Authorization Date: 10/28/04
Report Date: 05/18/05
Revision 1: 06/17/05
Fax: 315-646-2297

Attention: John Kent
Product/Reference No.: 1741A L04
Manufactured Date: 09/23/04
Manufacturer: SIGCO, Inc.

Phone: 315-646-2234
Overall Size: 14" x 20"
Glass Thickness: 3/16"

Air Space: 3/8"

Spacer: 3/8" Anodized Aluminum by Allmetal
Corners: Four plastic keys by Allmetal; square cut
Primary Sealant: PB-059B/PIB-29 Polyisobutylene by Adco
Secondary Sealant: PRC 469 FM Modified Polysulfide by PRC-DeSoto
Desiccant: Molsiv 4000 Molecular sieve by Adco; two long sides filled
Other Features: Argon holes; Aluminum Muntins by Allmetal
Information obtained from: IGCC

FROST POINT TEST RESULTS (°F) / ASTM E 546

Unit	Primary Sealant Width min./max	Initial	Fog ¹	Class C		Class B		Class A	
				HH(C) ²	AW(C) ²	HH(B) ²	AW(B) ²	HH(A) ²	AW(A) ²
1	4-6mm	<-90		<-90	<-90	<-90	<-90	<-90	<-80
2	2-8mm	<-90		<-90	<-90	<-90	<-90	<-90	<-90
3	4-8mm	<-90		<-90	<-90	<-90	<-90	<-90	<-90
4	2-6mm	<-90		<-90	<-90	<-90	<-90	<-90	<-90
5	4-7mm	<-90		<-90	<-90	<-90	<-90	<-80	<-90
6	4-6mm	<-90		<-90	<-90	<-90	<-90	<-80	<-90
11	4-6mm		Pass						
12	4-7mm		Pass						
Requirements	N/A	N/A	No Fog	<-30	<-30	<-20	<-20	<-20	<-20
Date	11/29/04	11/12/04	11/30/04	11/29/04	01/27/05	02/14/05	03/18/05	04/04/05	04/29/05

1. Fog Test / ASTM E 1887

2. Accelerated Weathering / ASTM E 773 (Duration/Class):

Class:	C	B	A
HH (days):	14	14	14
AW (cycles):	140	56	56

Remarks: Passes Class CBA of ASTM E 774 per E 773, E 546 and E 1887 test methods. This report does not constitute certification of this product, which may only be granted by the certification program Administrator/Validator. This report may not be reproduced, except in full, without the written approval of Architectural Testing.

For ARCHITECTURAL TESTING, INC.

Andrew O'Neill

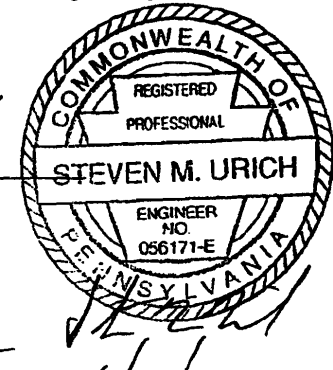
Digitally signed by Andrew O'Neill

Andrew O'Neill
IG Lab Technician

APO:apo/nlb

St 2 2
Digitally signed by Steven M. Urich

Steven M. Urich, P.E.
Senior Project Engineer



130 Derry Court
York, PA 17402-9405
phone: 717-764-7700

*CBA
93
IGCC*

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	05/18/05	N/A	Original report issue
1	06/17/05	One	"Argon holes" added to Other Features



LIMITED WARRANTY



SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS, SIGCO, INC. ("SIGCO") WARRANTS TO ITS ORIGINAL PURCHASER ("CUSTOMER") THAT ITS INSULATING GLASS UNITS WILL NOT DEVELOP MATERIAL OBSTRUCTION OF VISION AS A RESULT OF DUST OR FILM FORMATION ON THE INTERNAL GLASS SURFACES CAUSED BY FAILURE OF THE HERMETIC SEAL DUE TO FAULTY MANUFACTURE OF THE UNIT BY SIGCO, FOR A PERIOD OF FIVE (5) YEARS FROM THE MANUFACTURE OF THE UNIT.

This warranty excludes units, which have been improperly handled or installed contrary to our specific recommendations. Warranty coverage does not extend to units installed in high moisture environments such as greenhouses, swimming pool enclosures or salt water environments or to units installed in sloped glazing, units with muntins and/or units not paid for by the Customer.

All warranty claims must be presented in writing to SIGCO, Inc. at 299 Presumpscot Street, Portland, Maine 04103, within five (5) years of the date of manufacture of the unit to which the warranty applies, accompanied by proof of purchase. Upon validation of the warranty claim, SIGCO's liability for breach of any warranty shall be limited to the replacement of the defective unit (F.O.B. SIGCO's nearest location), or at SIGCO's sole option, a refund of the original unit's purchase price. In no case shall SIGCO be liable for any other damages or expenses, including but not limited to incidental or consequential damages. Replacement labor costs are not covered under this warranty. The warranty on all replacement units will extend only for the balance of the five (5) year warranty period remaining on the original unit.

THE PARTIES INTEND THIS WRITTEN AGREEMENT AS A FINAL EXPRESSION OF THEIR AGREEMENT WITH RESPECT TO SUCH TERMS AS ARE INCLUDED HEREIN.

ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. THERE ARE NO WARRANTIES, WHICH EXTEND BEYOND THOSE PROVIDED HEREIN.

No person has the authority to: 1) provide any warranties in addition to those set forth herein; or 2) expand, change or modify this warranty in any respect, except for the five (5) year duration period. The duration of the warranty provided herein may be extended to a maximum of ten (10) years, on a per unit basis, if in writing and signed by an officer of SIGCO, Inc.

SIGCO, INC. - 299 PRESUMPCOT STREET - PORTLAND, MAINE 04103
PHONE: 207.775.2691 * FAX: 207.775.0291



IMPACT TESTING ON SAFETY GLAZING MATERIAL

Rendered to:

SAFETY GLAZING CERTIFICATION COUNCIL
P.O. Box 730
Sackets Harbor, New York 13685

Report No: 73342.04-122-37
Test Date: 06/20/07
Report Date: 06/29/07

Sample ID.: SGCC - 2964 F07 1/4" Tempered Transparent Glass
Manufacturer: SIGCO, Inc.
Size Classification: Limited
Lab Temperature: 73°F
Duration of Pre-Conditioning @ 65 - 85°F: 12 Hours
Test Size: 26" wide by 46" high

All test specimens were destroyed by test or by our personnel and have been disposed of as trash.

Impact Tests: (ANSI Class A / CPSC Cat. II)

Spec. No.	Test Standard	Thickness, inches	Impact Drop Height, inches	Test Results, grams	Acceptance Criteria, grams
1	ANSI Z97.1-2004	0.224	48	31	92
2	ANSI Z97.1-2004	0.229	48	30	94
3	ANSI Z97.1-2004	0.229	48	22	94
4	ANSI Z97.1-2004	0.229	48	18	94
5	CPSC 16 CFR 1201	0.228	48	27	94

For ARCHITECTURAL TESTING, INC.:

Digitally Signed by: Benjamin M. Eveler

Benjamin M. Eveler
Technician I

BME:bme/nlb

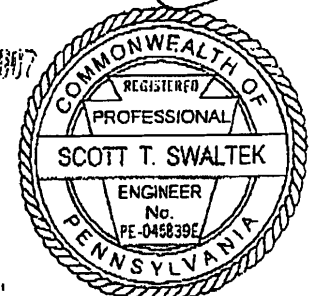
Attachment (1): Sample Receipt Form

This report is complete only when all attachments listed are included.

Digitally Signed by: Scott Swaltek

Scott T. Swaltek, P.E.
Senior Project Engineer

RECEIVED JUL 02 2007



130 Derry Court
York, PA 17406-8405
phone: 717-764-7700
fax: 717-764-4170

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safety glazing certification council

P.O. BOX 730
SACKETS HARBOR, N.Y. 13685
PHONE 315-846-2234
FAX 315-846-2297

SGCC #: 2964

COMPOSITE

F07

7/12/2007

SIGCO, Inc.
Mr. David McElhinny
299 Presumpscot St.
Portland, ME 04103

Plant ID: SIG01ME

Plant Location: Portland, ME

Report of Evaluation of Licensee's Sample

	<i>SGCC#:</i>	<i>Thickness (in):</i>	<i>Type description:</i>
Product Certified:	2964	1/4	Tempered Transparent Glass

Upon review of the enclosed report, SGCC has considered it indicates compliance to :

ANSI Z97.1-2004 and CPSC 16 CFR 1201

Very truly yours,

John G. Kent
Administrative Manager
SGCC Certification Program

CC:



safety glazing certification council

P. O. BOX 9
HENDERSON HARBOR, N. Y. 13651
PHONE 315-646-2234
FAX 315-646-2237

Acknowledgement of Certification

This is to acknowledge that as of this date

SIGCO, Inc.
Portland, ME

Has met all guidelines & requirements for the SGCC Certification Program and
is a current SGCC Licensee.

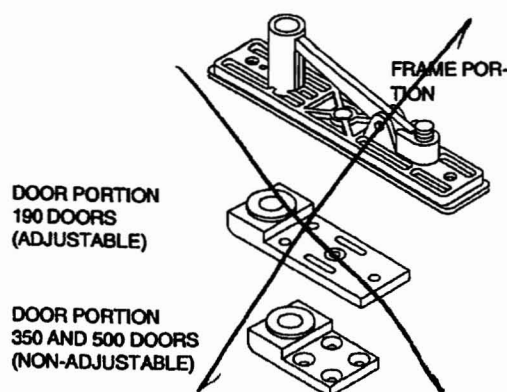
The following products are currently certified as indicated below, as in compliance
with ANSI Z97.1-2004, CPSC 16 CFR 1201 standards, or both standards, known as
composite certification:

2961	Composite	1/8 inch (3.0 mm) Tempered Transparent Glass (TTG)
2962	Composite	5/32 inch (4.0 mm) Tempered Transparent Glass (TTG)
2963	Composite	3/16 inch (5.0 mm) Tempered Transparent Glass (TTG)
2964	Composite	1/4 inch (6.0 mm) Tempered Transparent Glass (TTG)
2965	Composite	3/8 inch (10.0 mm) Tempered Transparent Glass (TTG)
2966	Composite	1/2 inch (12.0 mm) Tempered Transparent Glass (TTG)
2967	Composite	5/32 inch (4.0 mm) Tempered Patterned Glass (TPG)
3028	Composite	3/16 inch (5.0 mm) Tempered Patterned Glass (TPG)

This SGCC Program Certificate is current and in full effect as of
the 17th day of *January, 2006*. Certification in the SGCC Program
is subject to semi-annual renewal.

Please check current SGCC Certified Products Directory.


John G. Kent - Administrative Manager

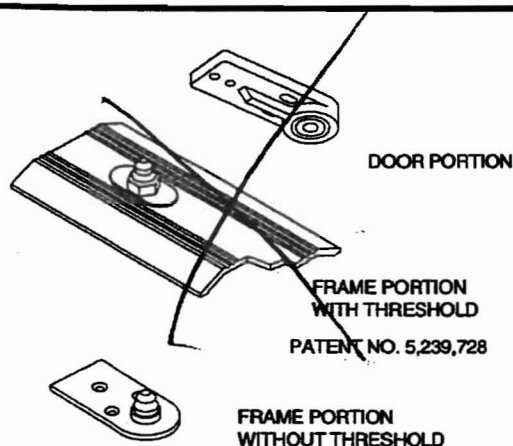


TOP CENTER PIVOT

Description: (Frame Portion)- The "walking beam" frame pivot portion is cast aluminum with a hardened steel pivot pin. The pin is adjustable for additional extension through the transom bar/header. Both door pivot portions are machined aluminum with ollite bronze self-lubricating bearings. All top center hung pivot parts are concealed.

Application: This pivot assembly is used in conjunction with center hung doors with floor closers. The adjustable portion for the 190 Narrow Stile Door provides for a one time only adjustment. Dimension 3" (76.2) long, 1-7/16" (36.5) wide, and 1/2" (12.7) at its thickest point. The 350 Medium Stile and 500 Wide Stile door pivot portion is non-adjustable. Dimensions 2-3/8" (60.3) long, 1-7/16" (35.5) wide and 1/2" (12.7) at its thickest point.

Finish: The frame portion is natural cast aluminum with dress plate to match color of frame. The machined door portion is mill finish.

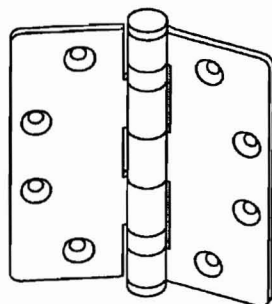


BOTTOM CENTER PIVOT

Description: The low profile center pivot for use with a threshold has an adjustable stainless steel pivot pin that is mounted and locked into the threshold. The center pivot for use without a threshold has a stainless steel pivot pin press fit into a stainless steel plate. The door portion is comprised of a roller bearing press fit into a cast aluminum pivot block.

Application: Both pivot portions, with or without threshold, are used on doors with concealed overhead closer control. On entrances with thresholds the pivot is anchored securely into the threshold. The frame portion is adjustable for proper door and frame clearance. The frame portion for use on doors without threshold is fastened directly to the floor. When no threshold is used, height adjustment is obtained by shimming the pivot block. The door pivot block is securely mounted to the bottom rail web.

Finish: Mill finish is standard for all bottom center pivot parts.

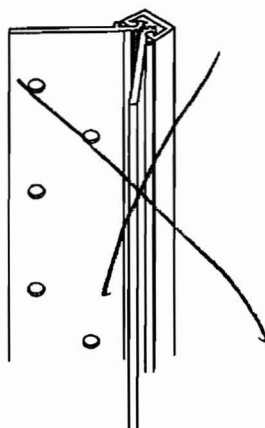


BUTT HINGE

Description: Commercial quality steel or brass hinge with leaves of five knuckle-two ball bearing construction. The hinge barrel is enclosed with button tips and incorporates a non-rising removable pin. Butt hinges with optional non-removable pin are available. The hinge is a radius corner, standard template butt of 4-1/2" x 4" (114.3 x 101.6). The hinge leaf thickness is .134 inches (3.4). It is also available in electric transfer model.

Application: The butt hinge is fully mortised into the door hinge stile and frame hinge jamb. Reinforcing plates are used in both the frame jamb and hinge stile for secure screw anchorage. Butt hinges for corrosive coastal environments also available. The use of an intermediate butt (1-1/2 pair per leaf) is suggested for doors in high traffic areas or for doors over 7'-6" (2286).

Finish: On clear anodized doors the hinge finish is U.S. 26D dull chrome. On Permanodic bronze or black doors the hinge has a dark oxidized finish.



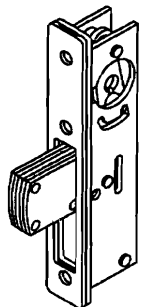
CONTINUOUS HINGE

Description: Quality continuous "geared" hinge incorporating lubricated bearings between the knuckles.

Application: The continuous hinge is surface applied to both the door stile and door frame. Screws are staggered and are approximately 6" (152.4) on center. Continuous hinges are suitable for all entrance configurations.

Finish: Available in #14 Clear, #29 Black and #40 Bronze anodized finishes. Painted finishes are available on a custom basis.

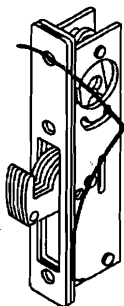
ADAMS RITE MS-1850 DEADLOCK



Description: This deadlock incorporates an aluminum faceplate and five ply laminated steel bolt with 1-3/8" (34.9) standard throw. For special conditions, a 13/16" (20.5) throw is available. All vulnerable lock parts are designed to resist sawing attempts. The lock accepts any standard 1-5/32" (29.4) mortised cylinder or thumbturn (with MS cam). Backset (center line of face plate to center line of cylinder) is 1-1/8" on all doors.

Application: Standard lock used in the active leaf of a pair of doors or on a single door. It may be converted to two point or three point locking.

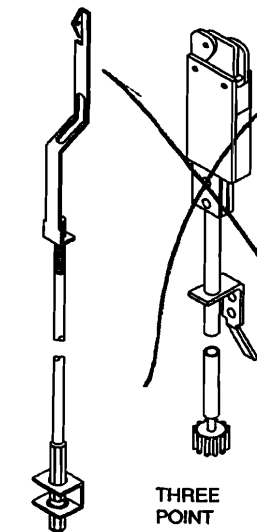
ADAMS RITE MS-1850-050



Description: All features and components, with the exception of the hook bolt, are the same as the MS 1850 deadlock. The hook bolt is of the same construction but has a hook shape to provide additional security against the door prying attempts.

Application: This hook bolt lock is an optional lock recommended for extra security on pairs of doors. When the hook bolt is thrown it engages the inactive leaf strike cut-out in a manner that resists attempts to pry or pull apart the door stiles. On pairs of doors the proper strike cut-out is provided when the hook bolt lock is specified.

2 AND 3 POINT LOCKS



TWO POINT

THREE POINT

Two Point: In addition to the deadbolt lock point of the MS 1850, additional security is obtained for pairs of doors with the use of a threshold bolt. The normal turn of the cylinder key simultaneously drops a hardened steel hexbolt into the threshold and provides the second lock point.

Three Point: The third locking point is obtained by adding a header bolt to the above described MS lock and threshold bolt. The header bolt is placed in the top stile of the inactive leaf. The throw of the MS bolt in the inactive leaf strike cut-out triggers engagement of the header bolt.

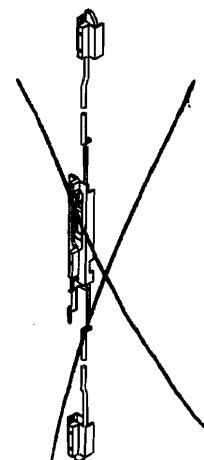
KAWNEER CONTROLLER® LOCKING SYSTEM

US PATENT NO. 4,283,882
CANADIAN PATENT NO. 1,144,581

TOTAL CONTROL of paired entrances is now possible. The CONTROLLER provides uncompromised egress thru both door leaves with one stage unlocking, but offers the convenience of two stage locking.

LIFE SAFETY is an important consideration in the selection of entrance door hardware. If an entrance with flush bolts has not been completely unlocked, life safety considerations could be compromised in an emergency situation. This is one reason why manual flush bolts are prohibited by building codes*.

SECURITY of the entrance is enhanced by three point locking using the CONTROLLER



mechanism in conjunction with the Adams Rite maximum security lock. Flush bolt locking jeopardizes security, as the door leaves can be pried apart allowing access to the flush bolt release levers. Unlike flush bolts, the CONTROLLER is manually engaged with access through the M.S. lock strike cut out. It is then secured by the 1-3/8" (34.9) throw, five ply laminated steel bolt of the M.S. lock.

TWO STAGE LOCKING provides ease of operation not commonly found with standard three point locks. The CONTROLLER allows easy alignment of the inactive door leaf, followed by normal engagement of the M.S. lock.

ONE STAGE LOCKING is done with the turn of a key which retracts the M.S. lock bolt. The CONTROLLER mechanism is then free and will allow both door leaves to swing open.

APPLICATION: On paired entrances where exit devices are not required and manual flush bolts are prohibited by building codes*.

FORCED ENTRY for stringent Dade County forced entry requirements specify CONTROLLER FE which include reinforced rods.

* The following building codes, with some qualifications, prohibit the use of manual flush bolts on exits doors needed to handle the occupant load of the building.
Uniform Building Code- International Conference of Building Officials (ICBO)
Standard Building Code- Southern Building Code Congress International, Inc. (SBCCI)
Basic Building Code- Building Officials and Code Administrators, Inc. (BOCA).

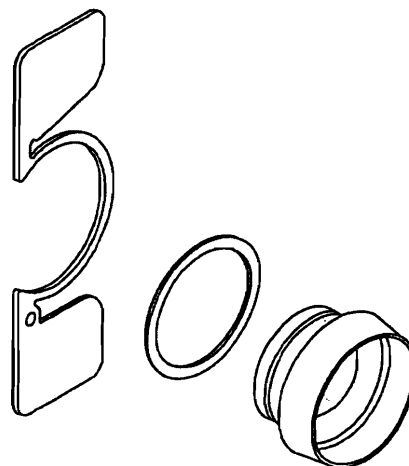
KAWNEER FLUSH BOLT

Description: A standard pair of doors includes top and bottom flush bolts in the inactive leaf. The flush bolts provide two inactive leaf "lock" points in addition to the active leaf which locks into the inactive leaf. They are flush mounted in the nose of the door stile and are finished to match.



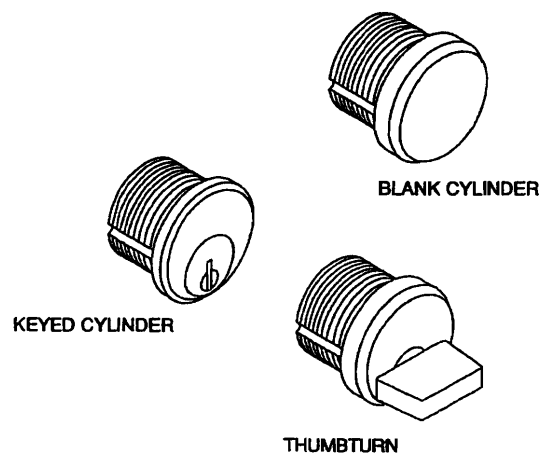
CYLINDER GUARD

Description/Application: The cylinder guard is a collar designed to protect the vulnerable soft cylinder. Its hardened steel material and tapered shape offers poor grip for prying or twisting attempts. The guard is held in place with a hardened steel retainer plate for additional security. For use with the Adams Rite MS 1850, 1850-050, +1890, or 4510 locks and latches.



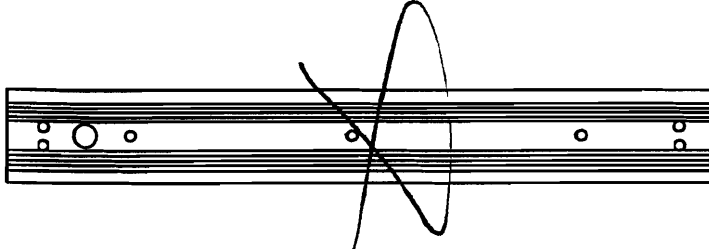
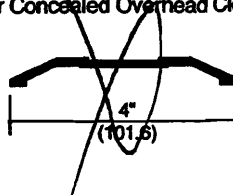
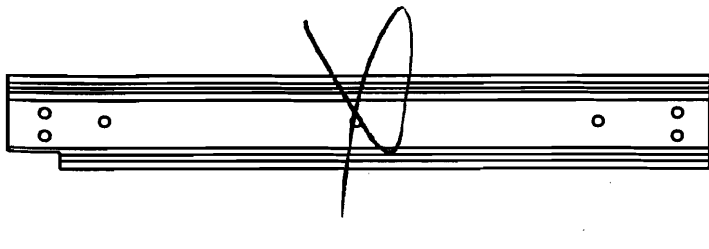
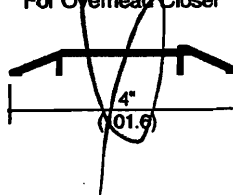
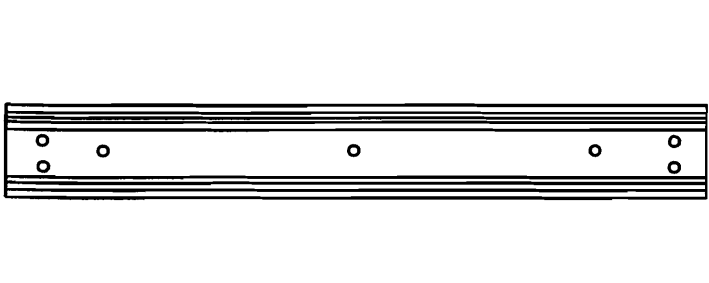
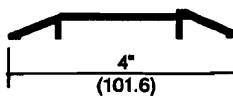

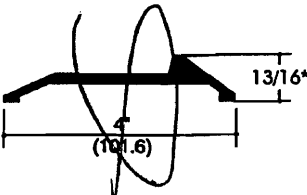
KAWNEER LOCK CYLINDERS

Description: Kawneer standard cylinders are 5 pin- mortised with a diameter of 1-5/32" (29.4). As shown in the illustration, the cylinders are key operated, thumbturn operated or blank. Keyed alike cylinders are available to meet various keying schemes. The cylinder scalps and thumbturns are finished to match the door.



KAWNEER THRESHOLDS

Description/Application: Kawneer thresholds are factory fabricated and prepared for the appropriate hinging and locking hardware. They are extruded-mill finish aluminum and are engineered for maximum strength as an integral part of the door and frame. Threshold height from the finished floor is 1/2" (12.7mm) except as noted.

	<p>CENTER HUNG For Concealed Overhead Closer</p> 
	<p>OFFSET PIVOT For Overhead Closer</p> 
	<p>BUTT HUNG For Overhead Closer</p> 
	<p>PANIC GUARD® For Offset Pivot and Butt Hung Doors</p> 

* On units that require ADA compliance the standard 1/2" high, offset pivot/butt hung threshold with bottom sweep will be supplied.

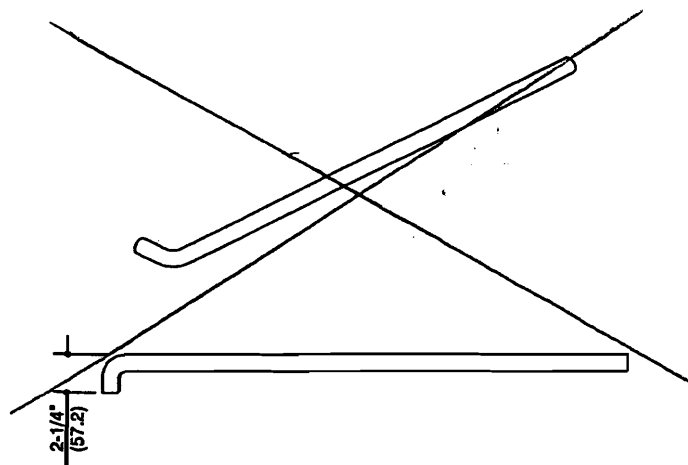
KAWNEER STANDARD ARCHITECTS CLASSIC HARDWARE

Description: Contemporary styled 1" (25.4) round bent bar is the basis for this hardware line. A 90 degree offset pull is available in two centerline dimensions: 9" (228.6) and 12" (304.8).

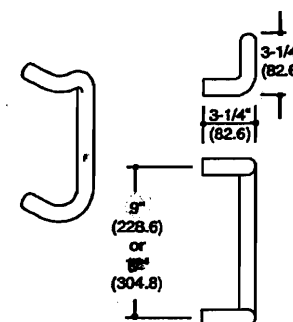
Application: For use with single or double acting doors. A CP-II double bend push bar and a pull handle for single acting doors. Two CP push bars or two pull handles mounted back to back for double acting doors. Secure attachment is obtained by through the door mounting.

Finish: Hardware is available in:

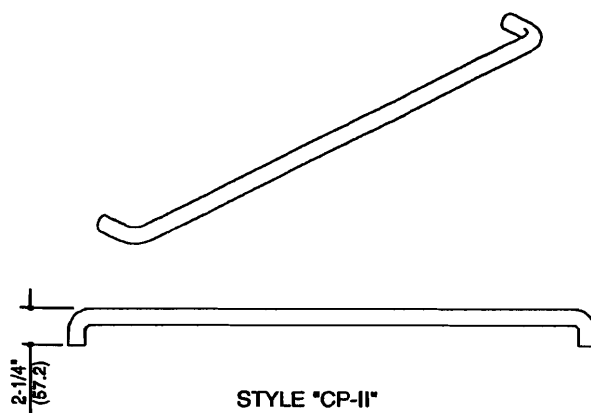
- #14 Clear anodize
- #29 Black anodize
- #40 Dark Bronze anodize
- #44 Bronze - US10B oil rubbed
- #45 Stainless Steel - US32 polished
- #46 Stainless Steel - US32D dull
- #47 Bright Brass (PVD) - US3



STYLE "CP"
(DOUBLE ACTING)



STYLE CO-9/12
(SINGLE ACTING)

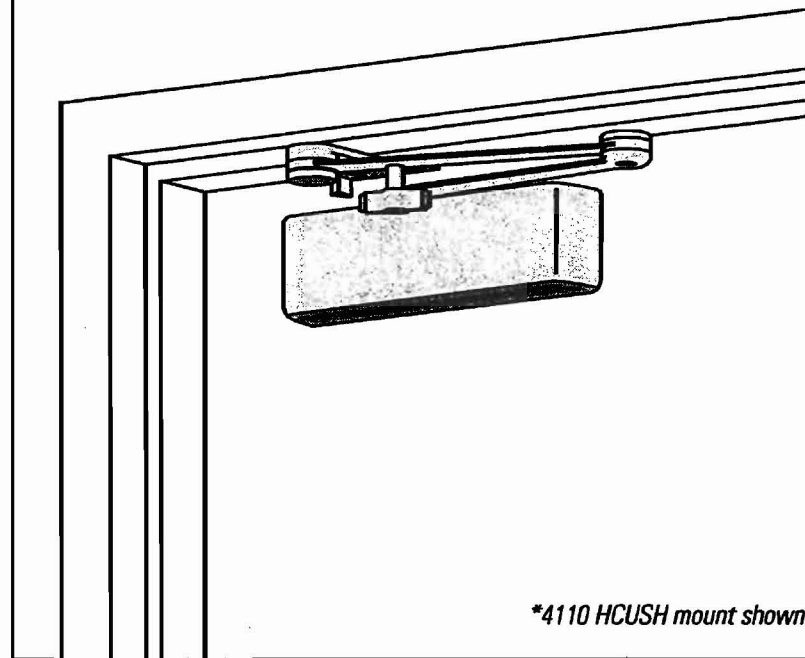


STYLE "CP-II"
(SINGLE ACTING)

LCN 4110 SERIES

FEATURES

*PARALLEL ARM (PUSH SIDE) MOUNT



The 4110 SMOOTHIE® is LCN's best performing heavy duty closer designed specifically for institutional and other rugged high traffic applications.

- ▶ Ten Million Cycles
- ▶ Cast Iron
- ▶ Extra Duty Forged Steel Arm Standard
- ▶ Double Heat Treated Steel Pinion
- ▶ All Weather Fluid
- ▶ LCN® Fast™ Power Adjust
- ▶ Fast & Accurate Installation
- ▶ UL & cUL Listed

- ▶ Standard 4110 series closer is shipped with EXTRA DUTY arm, standard plastic cover, 4110-201 FIFTH SCREW SPACER and self reaming and tapping screws. See 4110 Series pages 61 & 62 for options.
- ▶ Sized cylinders adjustable for interior doors to 5'0" and exterior doors to 4'0".
- ▶ Non-sized cylinder adjustable for interior doors to 4'6" and exterior doors to 3'6".
- ▶ Closer mounts parallel arm, specify right or left swinging door.
- ▶ 4111 cylinder meets ADA requirements. See 4110 Series page 63.
- ▶ Standard or optional custom powder coat finish.
- ▶ Optional plated finish on metal cover, arm and fasteners.
- ▶ Optional SRI primer for installations in corrosive conditions is available with powder coat only.
- ▶ The 4110 Series is UL and cUL listed for self-closing doors without hold-open.
- ▶ Tested and certified under ANSI Standard A156.4, grade one.



MOUNTING					FINISH			COVER			CYLINDER				**ARM FUNCTION							
HINGE (PULL SIDE)	TOP JAMB (PULL)	TOP JAMB (PUSH)	PARALLEL ARM	STOP FACE	POWDER COAT	PLATED	PLASTIC	METAL	DESIGNER METAL	NON-HANDED	NON-SIZED	ACCESSIBILITY	DELAYED ACTION	AVB***	REGULAR (DOUBLE)	STANDARD (SINGLE)	HOLD-OPEN	FUSIBLE LINK	EDA/HEDA	CUSH/HCUSH	SCUSH/SCUSH	
○	○	○	●	○	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

- Available
- Not available

- ♿ Closer available with less than 5.0 lbs. opening force on 36" door.
- **Maximum opening/hold-open point with standard template.
- *** Advanced Variable Backcheck

LCN.

59

LCN CLOSERS
121 W. RAILROAD AVE.
P.O. BOX 100
PRINCETON, IL, USA 61356-0100

PHONE 800-526-2400
FAX 800-248-1460
www.lcn.ingersollrand.com
3/07

LCN 4110 SERIES

MOUNTING DETAILS

PARALLEL ARM (PUSH SIDE) MOUNTING

MAXIMUM OPENING

EDA or Fusible Link arm can be templated for

100°,

Ⓐ = 5 15/16" (151 mm)

Ⓑ = 7 1/4" (184 mm)

140°,

Ⓐ = 4 7/16" (113 mm)

Ⓑ = 5 3/4" (146 mm)

or 180°.

Ⓐ = 2 15/16" (75 mm)

Ⓑ = 4 1/4" (108 mm)

Hold-open points up to maximum opening with HEDA or Fusible Link arm.

CUSH arm can be templated for maximum opening at

85°,

Ⓐ = 8 5/16" (211 mm)

Ⓑ = 9 5/8" (244 mm)

90°,

Ⓐ = 7 11/16" (195 mm)

Ⓑ = 9" (229 mm)

100°,

Ⓐ = 6 7/16" (164 mm)

Ⓑ = 7 3/4" (197 mm)

or 110°.

Ⓐ = 5 9/16" (141 mm)

Ⓑ = 6 7/8" (175 mm)

Hold-open point at maximum opening with HCUSH arm.

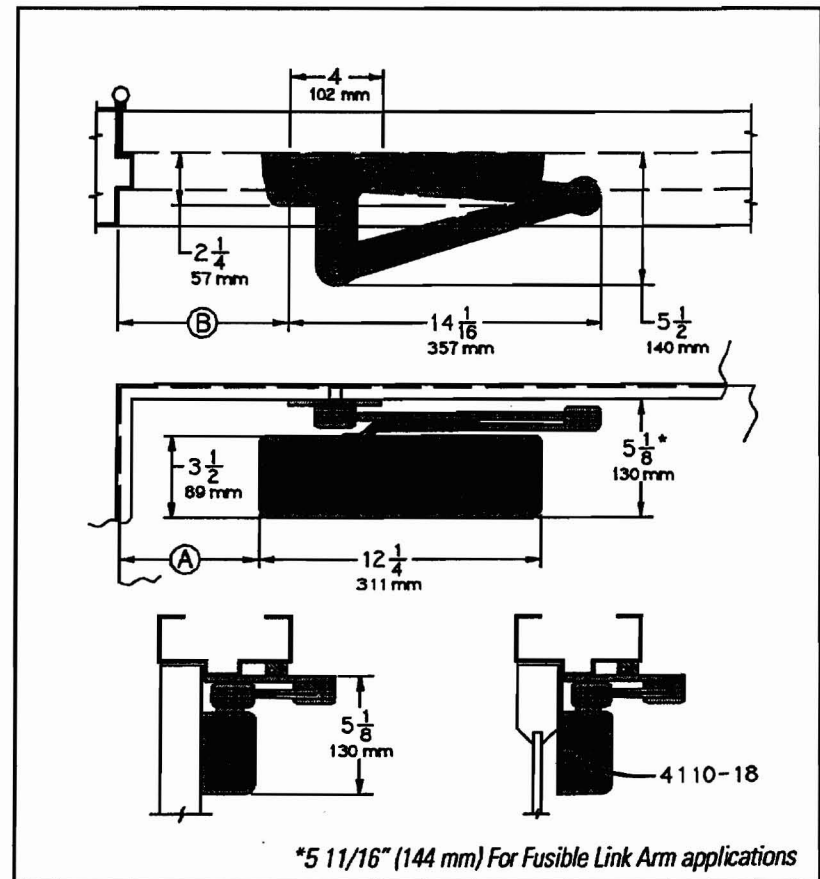
Spring Cush hold-open points are approximately 5" less than templated stop point.

Options

- ▶ Sized or non-sized cylinder
- ▶ Delayed Action and/or Advanced Variable Backcheck cylinder
- ▶ HEDA CUSH, HCUSH, SPRING CUSH, SPRING HCUSH or Fusible Link arm
- ▶ Metal or lead lined cover.

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN for assistance.



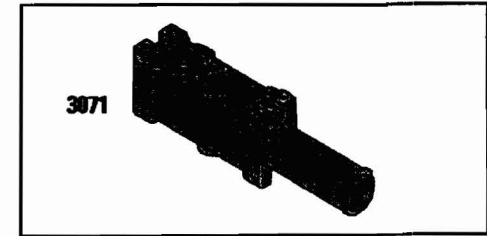
- ▶ **Butt Hinges** should not exceed 5" (127 mm) in width.
- ▶ **Auxiliary Stop** is recommended at hold-open point, where a door cannot swing 180°, or where CUSH-N-STOP arm is not used.
- ▶ **Clearance** for EDA, or CUSH shoe is 5 1/2" (140 mm) from door face.
- ▶ **Top Rail** less than 5 1/8" (130 mm) measured from stop requires PLATE, 4110-18. Plate requires 2" (51 mm) minimum measured from the stop.
- ▶ **Stop Width** minimum 1" (25 mm).
- ▶ **Head Frame** flush or rabbeted requires 4110-145 arm or PA SHOE ADAPTER, 4110-418, Use CUSH FLUSH PANEL ADAPTER, 4110-419 with CUSH arms.
- ▶ **Reveal** less than 2 3/4" (70 mm), use CUSH SHOE SUPPORT, 4110-30 with CUSH arms.
- ▶ **Blade Stop Spacer**, 4110-61 required to clear 1/2" (13 mm) blade stop.
- ▶ **Cush Arm** requires CUSH SHOE SUPPORT, 4110-30 for fifth screw anchorage with CUSH arms.
- ▶ **Delayed Action** Add suffix "DEL" to selected cylinder (eg. 4114 DEL). Not available with 4115 or 4116 cylinder. Delays closing from maximum opening to approximately 70°. Delay time adjustable up to approximately 1 minute.
- ▶ **Advanced Variable Backcheck** cylinder starts backcheck at approximately 45° instead of the normal 75°. Add suffix "AVB" to selected cylinder. When combined with Delayed Action consult factory for special template.

CYLINDERS

CYLINDER, 4110-3071

Standard, handed cast iron cylinder assembly.

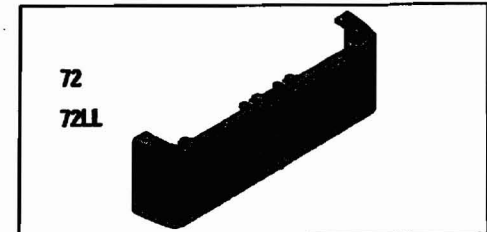
For various applications see "Table of Sizes" on 4110 Series page 63.



COVERS

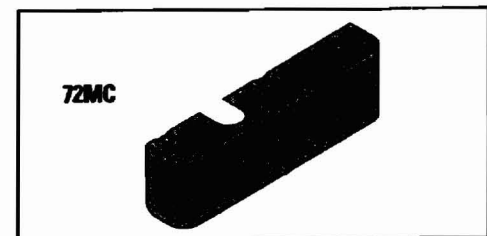
COVER, 4110-72

Standard, non-handed plastic cover.



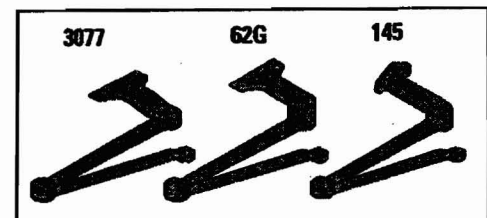
LEAD LINED COVER, 4110-72LL

Optional, non-handed plastic cover.



METAL COVER, 4110-72MC

Optional, handed cover. Required for plated finishes and custom powder coat finishes.



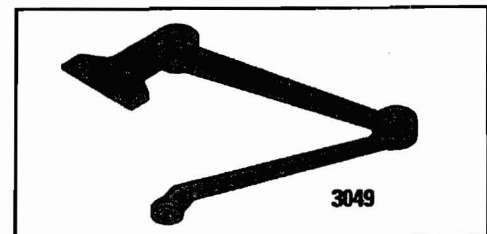
ARMS

EXTRA DUTY ARM, 4110-3077EDA, 4110-62G, 4110-145

Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations.

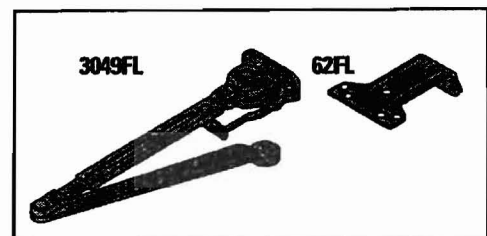
Optional 4110-62G thick hub shoe for blade stop clearance.

Optional 4110-145 flush transom shoe for single rabbeted installations. Optional shoes require special templating.



HOLD-OPEN ARM 4110-3049EDA

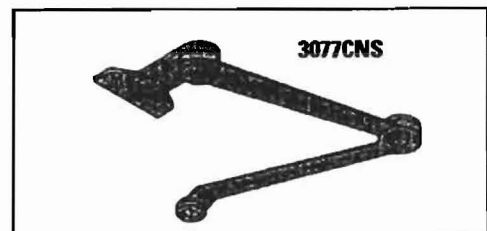
Optional handed arm provides hold-open function, adjustable at shoe.



FUSIBLE LINK ARM, 4110-3049FL

Optional, handed arm releases hold-open function adjustable at shoe when exposed to temperatures above 165° F.

NOTE: Check local codes before specifying FL arms. NOT A LIFE SAFETY PRODUCT!



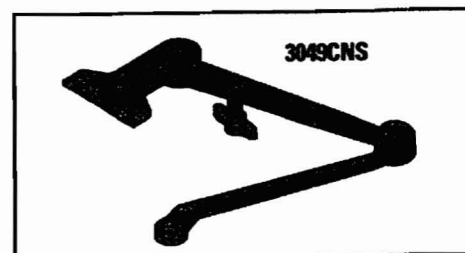
CUSH-N-STOP ARM, 4110-3077CNS

Optional, handed parallel arm features solid forged steel main arm and forearm with built-in stop in soffit shoe.

LCN 4110 SERIES

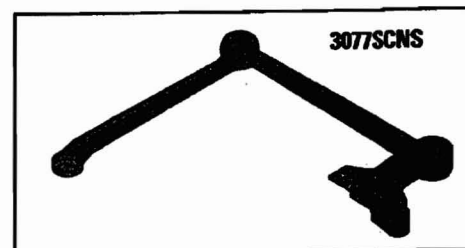
H-CUSH ARM 4110-3049CNS

Optional handed arm provides hold-open function with templated stop/hold-open points.
Handle controls hold-open function.



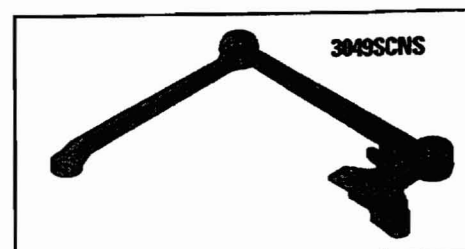
SPRING CUSH ARM, 4110-3077SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.



SPRING H-CUSH ARM, 4110-3049SCNS

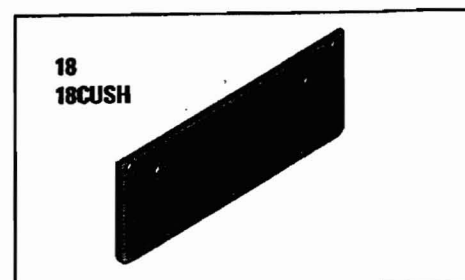
Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe. Handle controls hold-open function.



INSTALLATION ACCESSORIES

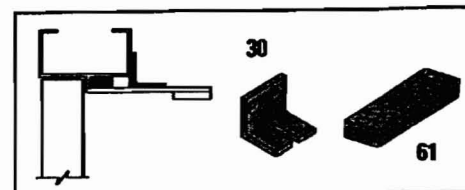
PLATE, 4110-18, 4110-18CUSH

Required for push side mount where top rail is less than 5 1/8" (130 mm), measured from the stop.
Plate requires minimum 2" (51 mm) minimum top rail.
Plate also used with CUSH Arm installations.



CUSH SHOE SUPPORT, 4110-30

Provides anchorage for fifth screw used with CUSH arm, where reveal is less than 3 1/16" (78 mm).

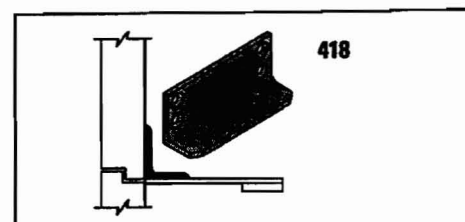


BLADE STOP SPACER, 4110-61

Lowers parallel arm shoe to clear 1/2" (13 mm) blade stop

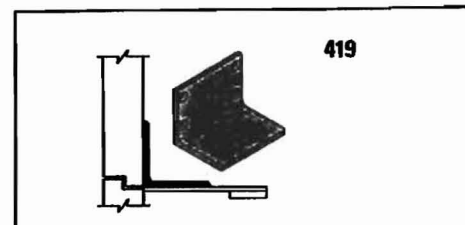
PA SHOE ADAPTER, 4110-418

Provides horizontal mounting surface for parallel arm shoe on single rabbetted or flush frame.



CUSH FLUSH PANEL ADAPTER, 4110-419

Provides horizontal mounting surface for CUSH shoe on single rabbetted or flush frame.



LCN 4110 SERIES

ORDERING INFORMATION

TABLE OF SIZES Select closer based on width of door.
 The spring power of non-sized 4111 cylinder is adjustable from size 1 through size 5 and is shipped set to size 3.
 Sized 4110 series cylinders available in size 2, 3, 4, 5, or 6.
 Closing power of all 4110 Series closers can be increased 50%.
 Specify next higher size closer where strong drafts exist.
 Delayed action not available with 4115 or 4116 cylinder
 H - CUSH and SPRING H-CUSH arm not available with 4116 cylinder.

→ Indicates recommended range of door width for closer size

EXTERIOR (and VESTIBULE) DOOR WIDTH

	28" 711mm	30" 762mm	36" 914mm	42" 1067mm	48" 1219mm
	size 3	size 4	size 5	size 6	
*4111	→				
4113	→				
4114		→			
4115			→		
4116				→	
Minimum Door Width	* Adjustable Size 1 thru 5				


INTERIOR DOOR WIDTH

	28" 711mm	34" 864mm	38" 965mm	48" 1219mm	54" 1372mm	60" 1524mm
	size 2	size 3	size 4	size 5	size 6	
*4111	→					
4112	→					
4113		→				
4114			→			
4115				→		
4116					→	
Minimum Door Width	* Adjustable Size 1 thru 5					

REDUCED OPENING FORCE 4110 CLOSERS

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

	DOOR WIDTH	36"	42"	48"
	8.5° lbs.		4111	4111
5.0° lbs.		4111	4111	4111

* Maximum opening force

HOW-TO-ORDER

4110 SERIES CLOSERS

1. SELECT CYLINDER SIZE

- 4111 (adjustable from size 1 to 5)
- 4112
- 4113
- 4114
- 4115 (DEL not available)
- 4116 (DEL, SHCUSH or HCUSH arm not available)

2. SPECIFY HAND

- RH
- LH

3. SELECT FINISH

- Standard Powder Coat _____
 Aluminum, Dark Bronze, Tan, Statuary,
 Light Bronze, Black, Brass.

Closer will be shipped with:

- STANDARD COVER,
- FIFTH SCREW SPACER
- EDA ARM,
- SELF-REAMING and TAPPING SCREWS,
 unless options listed below are selected.

4110 CLOSER OPTIONS

CYLINDER

- Delayed Action (DEL), not available with 4115 or 4116
- Advanced Variable Backcheck (AVB)

COVER

- Lead Lined (LL)
- Metal (MC)

FINISH

- Custom Powder Coat (RAL) _____
 (handed metal cover required)
- Plated Finish, US _____
 (handed metal cover required)
- SRI primer

SPECIFY ARM

- Hold-Open Extra Duty (HEDA)
- Fusible Link, 165° F (FL)
- Cush-N-Stop (CUSH)
- H-Cush-N-Stop (n/a with 4116 cylinder) (HCUSH)
- Spring Cush (SCUSH)
- Spring H-Cush (n/a with 4116 cylinder) (SHCUSH)

SCREW PACK

- TB*, Self-Reaming & Tapping (TBSRT)
- Wood & Machine Screw (WMS)
- TB*, Wood & Machine Screw (TBWMS)
- TORX Machine Screw (TORX)
- TB* & TORX Machine Screw (TBTRX)

* Specify door thickness if other than 1 3/4".

INSTALLATION ACCESSORIES

- Plate, 4110-18
- CUSH Shoe Support, 4110-30
- Blade Stop Spacer, 4110-61
- PA Shoe Adapter, 4110-418
- CUSH Flush Panel Adapter, 4110-419

SPECIAL TEMPLATE

- ST- _____

Project:

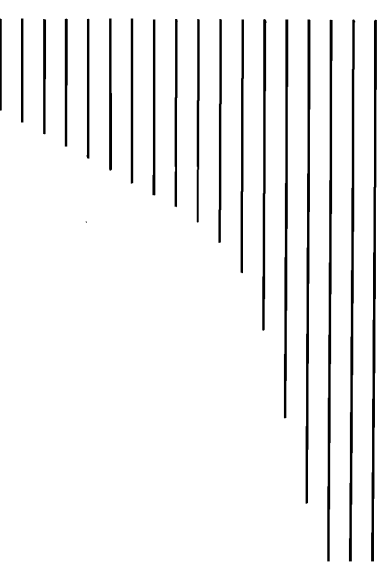
MARTINS POINT

Contractor:

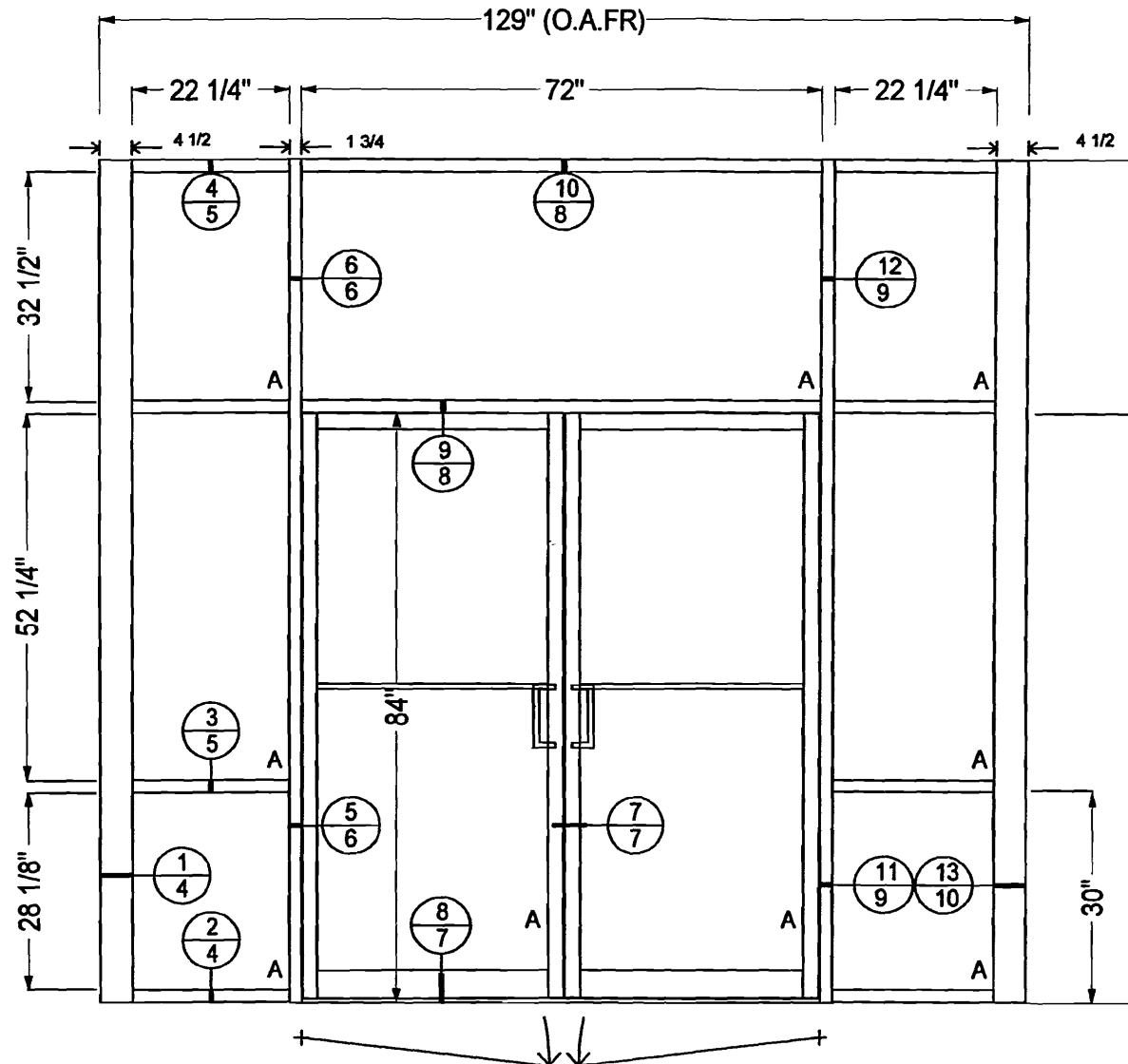
DOTEN CONSTR

COCG

Cumberland C

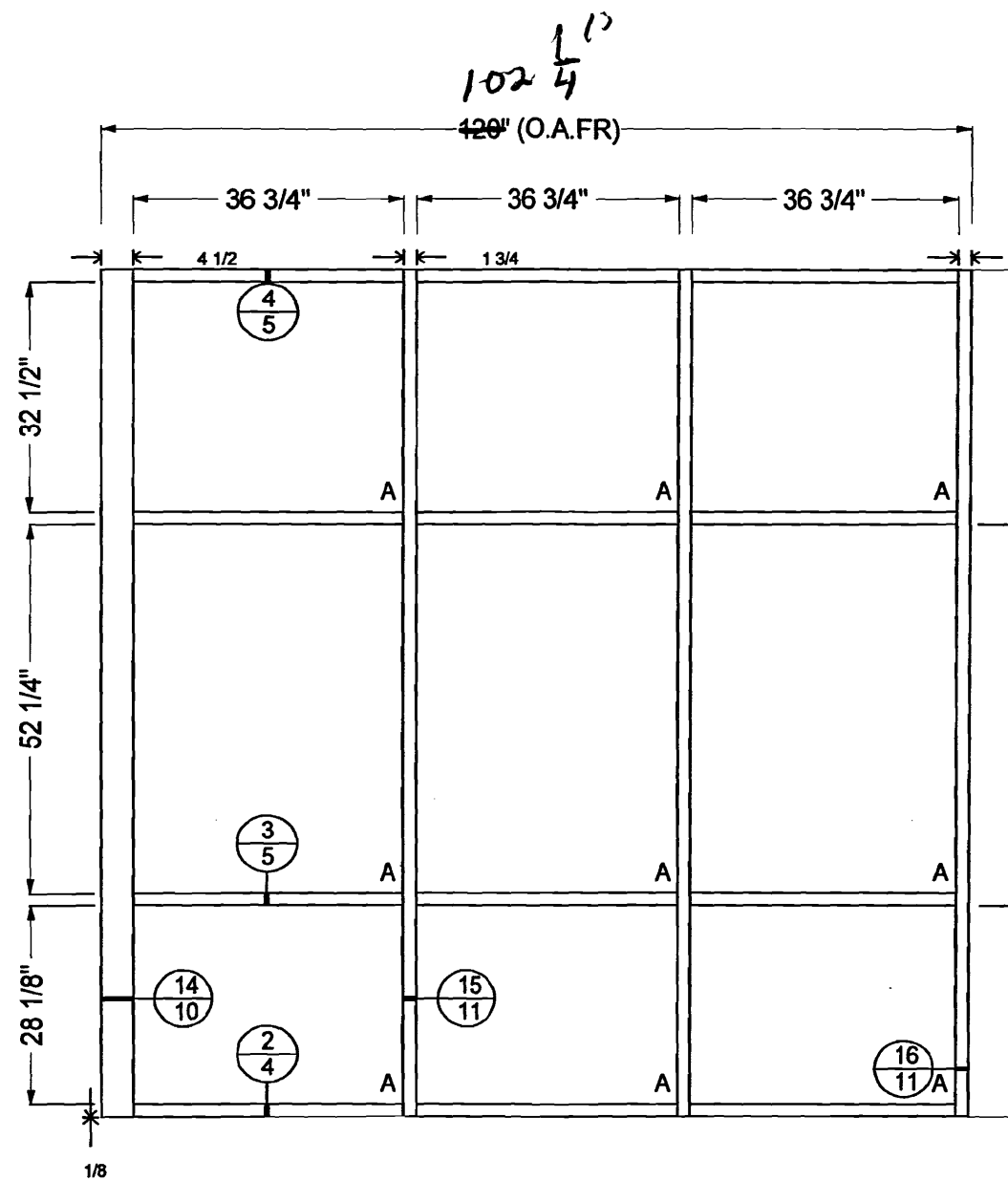


O.K.



Frame 1 1/2" = 1'0 QTY. REQD=1-#40 DRK BRZ
 1 3/4" X 4 1/2" CENTER GLAZED-SCREW SPLINE-OUTSIDE GLAZED

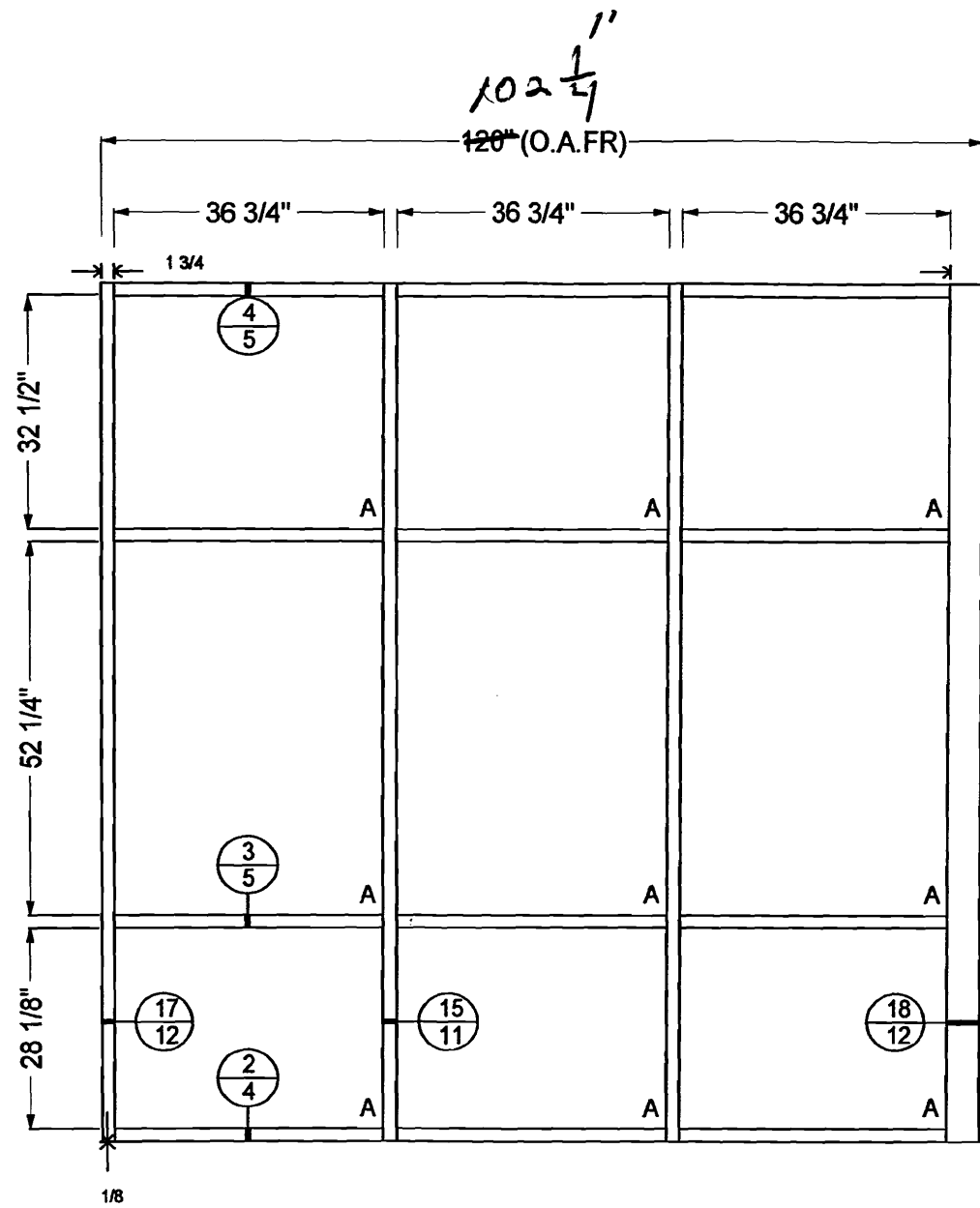
Dimensions	Glass Types			
	A=1/4 CLEAR TE			
NO.	REVISION	BY	DRW	



Frame 2 1/2" = 1'0 QTY. REQD=1-#40 DRK BRZ
 1 3/4" X 4 1/2" CENTER GLAZED-SCREW SPLINE-OUTSIDE GLAZED

Dimensions	Glass Types			
	A=1/4 CLEAR TE			
NO.		REVISION		BY

DRV



Frame 3 1/2" = 1'0 QTY. REQD=1-#40 DRK BRZ
1 3/4" X 4 1/2" CENTER GLAZED-SCREW SPLINE-OUTSIDE GLAZED

Dimensions	Glass Types			
	A=1/4 CLEAR TE			
NO.		REVISION		BY

DRV