

PART 1 GENERAL

1.1 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM A653/A653M-15, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.181-99, Ready-Mixed Organic Zinc-Rich Coating.
- .3 Canadian Standards Association (CSA International)
 - .1 CSA G40.20-13/G40.21-13, General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
 - .2 CSA W59-13, Welded Steel Construction (Metal Arc Welding).
- .4 Canadian Steel Door Manufacturers' Association (CSDMA)
 - .1 CSDMA, Recommended Specifications for Commercial Steel Doors and Frames, 2000.
 - .2 CSDMA, Selection and Usage Guide for Commercial Steel Doors, 1990.

1.2 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Provide product data: in accordance with Section 01 33 00 - Submittal Procedures.
- .3 Provide shop drawings: in accordance with Section 01 33 00 - Submittal Procedures.
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of New Brunswick.
 - .2 Indicate each type of door, material, steel core thicknesses, mortises, reinforcements, location of exposed fasteners, openings, glazed, louvered, arrangement of hardware

		and fire rating and finishes.
	.3	Indicate each type frame material, core thickness, reinforcements, glazing stops, location of anchors and exposed fastenings and reinforcing, fire-rating finishes.
	.4	Include schedule identifying each unit, with door marks and numbers relating to numbering on drawings and door schedule.
	.5	Submit test and engineering data, and installation instructions.
	.4	Provide samples in accordance with Section 01 33 00 - Submittal Procedures.
	.1	Submit one 300 x 300 mm corner sample of each type door.
	.2	Submit one 300 x 300 mm corner sample of each type of frame.
	.1	Show butt cutout, glazing stops.
<u>1.3 DELIVERY, STORAGE AND HANDLING</u>	.1	Deliver, store and handle materials in accordance with manufacturer's recommendations.
	.2	Waste Management and Disposal:
	.1	Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
<u>PART 2 PRODUCTS</u>		
<u>2.1 MATERIALS</u>	.1	Hot dipped galvanized steel sheet: to ASTM A653M, ZF75, minimum base steel thickness in accordance with CSDMA Table 1 - Thickness for Component Parts.
	.2	Reinforcement: to CSA G40.20/G40.21, Type 44W, coating designation to ASTM A653M, ZF75.
<u>2.2 DOOR CORE MATERIALS</u>	.1	Honeycomb construction:
	.1	Structural small cell, 24.5mm maximum kraft paper 'honeycomb', weight: 36.3 kg per ream minimum, density: 16.5 kg/m3 minimum sanded to required thickness.
<u>2.3 ADHESIVES</u>	.1	Honeycomb cores and steel components: heat

resistant, spray grade, resin reinforced neoprene/rubber (polychloroprene) based, low viscosity, contact cement.

- .2 Lock-seam doors: fire resistant, resin reinforced polychloroprene, high viscosity, sealant/adhesive.

2.4 PRIMER

- .1 Touch-up prime CAN/CGSB-1.181.

2.5 PAINT

- .1 Field paint steel doors and frames in accordance with Section 09 91 23 - Interior Painting. Provide final finish shall be free of scratches or other blemishes.

2.6 ACCESSORIES

- .1 Door silencers: single stud rubber/neoprene type.
- .2 Interior top and bottom caps: rigid polyvinylchloride extrusion conforming to CGSB 41-GP-19Ma.
- .3 Fabricate glazing stops as formed channel, minimum 16 mm height, accurately fitted, butted at corners and fastened to frame sections with counter-sunk oval head sheet metal screws.
- .4 Metallic paste filler: to manufacturer's standard.
- .5 Sealant: as specified in Section 07 92 00 - Joint Sealants.
- .6 Glazing: as specified in Section 08 80 50.
- .7 Make provisions for glazing as indicated and provide necessary glazing stops.
 - .1 Provide removable stainless steel glazing beads for use with glazing tapes and compounds and secured with countersunk stainless steel screws.
 - .2 Design glazing stops to be tamperproof.

2.7 DOOR FRABRICATION GENERAL

- .1 Doors: swing type, flush, with provision for glass and openings as indicated.
- .2 Interior doors: honeycomb construction.

- .3 Fabricate doors with longitudinal edges welded. Seams: grind welded joints to a flat plane, fill with metallic paste filler and sand to a uniform smooth finish.
- .4 Doors: manufacturers' proprietary construction, tested and/or engineered as part of a fully operable assembly, including door, frame, gasketing and hardware in accordance with ASTM E330.
- .5 Blank, reinforce, drill doors and tap for mortised, templated hardware and electronic hardware.
- .6 Factory prepare holes 12.7 mm diameter and larger except mounting and through-bolt holes, on site, at time of hardware installation.
- .7 Reinforce doors where required, for surface mounted hardware. Provide inverted, recessed, spot welded channels to top and bottom of interior doors.
- .8 Provide factory-applied touch-up primer at areas where zinc coating has been removed during fabrication.
- .9 Manufacturer's nameplates on doors are not permitted.

2.8 HOLLOW STEEL CONSTRUCTION

- .1 Form each face sheet for interior doors from 1.6 mm sheet steel.
- .2 Reinforce doors with vertical stiffeners, securely welded to each face sheet at 150 mm on centre maximum.
- .3 Fill voids between stiffeners of interior doors with honeycomb or temperature rise rated core.

PART 3 EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliances: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage

and installation instructions, and datasheets.

3.2 INSTALLATION
GENERAL

- .1 Install doors and frames to CSDMA Installation Guide.

3.3 DOOR
INSTALLATION

- .1 Install doors and hardware in accordance with hardware templates and manufacturer's instructions and Section 08 71 00 - Door Hardware.
- .2 Provide even margins between doors and jambs and doors and finished floor and thresholds as follows.
 - .1 Hinge side: 1.0 mm.
 - .2 Latch side and head: 1.5 mm.
 - .3 Finished floor, top of carpet, noncombustible sill and thresholds: 13 mm.
- .3 Adjust operable parts for correct function.

3.4 FINISH REPAIRS

- .1 Touch up with primer finishes damaged during installation.

3.5 GLAZING

- .1 Install glazing for doors in accordance with Section 08 80 50 - Glazing.

END OF SECTION

PART 1 - GENERAL

1.1 QUALITY CONTROL

- .1 Do not combine supplier bids for door hardware with bids for doors and frames.
- .2 Supplier: A recognized builders Hardware Supplier who has been furnishing hardware in the project's vicinity for a period of not less than five (5) years, and who is or has in employment an Architectural Hardware Consultant (AHC) who holds a current certification seal of the Door and Hardware Institute. The hardware consultant shall be available for on-site consultation as required. The supplier shall have adequate equipment, maintenance and advisory facilities in order to serve and keep pace with contract obligations and responsibilities.

1.2 REFERENCES

- .1 Canadian Steel Door and Frame Manufacturers' Association (CSDFMA).
 - .1 CSDFMA Canadian Metric Guide for Steel Doors and Frames (Modular Construction): standard hardware location dimensions.
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-69.17-M86/ANSI/BHMA A156.2-1996, Bored and Preassembled Locks and Latches.
 - .2 CAN/CGSB-69.18-M90/ANSI/BHMA A156.1-1981, Butts and Hinges.
 - .3 CAN/CGSB-69.20-M90/ANSI/BHMA A156.4-1986, Door Controls (Closers).
 - .4 CAN/CGSB-69.21-M90/ANSI/BHMA A156.5-1984, Auxiliary Locks and Associated Products.
 - .5 CAN/CGSB-69.22-M90/ANSI/BHMA A156.6-1986, Architectural Door Trim.
 - .6 CAN/CGSB-69.24-M90/ANSI/BHMA A156.8-1982, Door Controls - Overhead Holders.
 - .7 CAN/CGSB-69.28-M90/ANSI/BHMA A156.12-1986, Interconnected Locks and Latches.
 - .8 CAN/CGSB-69.29-93/ANSI/BHMA A156.13-1987, Mortise Locks and Latches.
 - .9 CAN/CGSB-69.30-93/ANSI/BHMA A156.14-1991, Sliding and Folding Door Hardware.
 - .10 CAN/CGSB-69.32-M90/ANSI/BHMA

A156.16-1981, Auxiliary Hardware.

- .11 CAN/CGSB-69.34-93/ANSI/BHMA A156.18-1987, Materials and Finishes.
- .12 CAN/CGSB-69.37-93/ANSI/BHMA A156.21-96, Thresholds.
- .13 ANSI/BHMA A156.28-00, Master Keying.

1.3 SAMPLES

- .1 Submit - Samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Identify each sample by label indicating applicable specification paragraph number, brand name and number, finish and hardware package number.
- .3 After approval samples will be returned for incorporation in the Work.

1.4 HARDWARE LIST

- .1 Submit contract hardware list in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate specified hardware, including make, model, material, function, size, finish and other pertinent information.

1.5 KEY SCHEDULE

- .1 After a keying meeting between the Departmental Representative and the Hardware Supplier, provide a keying schedule, listing the levels of keying, as well as an explanation of the key system's function, the key symbols used, and the door numbers controlled. This schedule can be submitted as part of the Hardware Schedule or as a separate schedule.

1.6 ELECTRONIC SECURITY HARDWARE

- .1 When electrified hardware is included in the hardware specification, the hardware supplier must employ an individual knowledgeable in electrified components and systems, who is capable of producing wiring diagrams and consulting as needed. Coordinate installation of the electronic security hardware with the Departmental Representative and provide installation and technical data to the Departmental Representative and other related sub-contractors. Upon completion of electronic security hardware installation, verify that all components are working properly, and state in the

required guarantee that this inspection has been performed.

1.7 CLOSEOUT SUBMITTALS

- .1 Provide operation and maintenance data for door closers, locksets and door hardware for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.
- .2 Brief maintenance staff regarding proper care, cleaning, and general maintenance.

1.8 EXTRA MATERIALS

- .1 Provide maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Supply two sets of wrenches for door closers and locksets.

1.9 DELIVERY AND STORAGE

- .1 Deliver, store, handle and protect materials in accordance with manufacturer's recommendations.
- .2 Store finishing hardware in locked, clean and dry area.
- .3 Package each item of hardware including fastenings, separately or in like groups of hardware, label each package as to item definition and location.

1.10 WASTE DISPOSAL AND MANAGEMENT

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction / Demolition Waste Management and Disposal.
- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3 Dispose of all corrugated cardboard, polystyrene, plastic packaging material in appropriate on-site bin for recycling in accordance with site waste management program.
- .4 All existing hardware being removed is to be returned to client.

PART 2 - PRODUCTS

2.1 HARDWARE ITEMS

- .1 Only door locksets listed on CGSB Qualified Products List are acceptable for use on this project.
- .2 Use one manufacturer's products only for all similar items.

2.2 DOOR HARDWARE

- .1 Locks and latches:
 - .1 Bored and preassembled locks and latches to CAN/CGSB-69.17 series 4000 bored lock, grade 1, designed for function, and keyed as stated in Hardware Group.
 - .2 Lever handles: plain design as stated in Hardware Group.
 - .3 Roses: round.
 - .4 Normal strikes: box type, lip projection not beyond jamb.
 - .5 Cylinders: key into keying system as directed.
 - .6 Finished to C26D.
- .2 Butts and hinges:
 - .1 Butts and hinges: to CAN/CGSB-69.20, designated by letter A and numerical identifiers, followed by size and finish, listed in Hardware Group.
- .3 Door Closers and Accessories.
 - .1 Door bottom seal: heavy duty door seal of extruded aluminum frame and solid closed cell neoprene weather seal, recessed in door bottom, closed ends, adjustable automatic retract mechanism when door is open, clear anodized finish.
 - .2 Weatherstripping:
 - .1 Head and jamb seal:
 - .1 Self adhesive gasket, resistant to fungus and mildew, controls smoke and sound.
 - .2 Adhesive backed santoprene material.
- .4 Holders and stops
 - .1 Holders and stops: to CAN/CGSB-69.32, ANSI A156.16, as listed in hardware schedule.
 - .2 Wall Stops: to ANSI/BHMA A156.8. solid cast

brass or bronze, circular shape, rubber insert, finish stainless steel.

Acceptable materials are: Gallery Hardware 250B or approved

.3 Floor stops: 50mm x 89mm full spherical radius Heavy duty Silicone rubber door stop (can be mounted to floors or walls)

.5 Auxiliary Hardware:

.1 Door Pull: to ANSI/BHMA A156.6, 25.4mm diameter stainless steel finish (US32D) or to match existing, c/w security fasteners.

Acceptable materials are: Southern Folger No.2 or approved equal.

.2 A Flush pull: Rugged cast flash cup door pulls that provide limited purchase on one or both sides of a door c/w security fasteners.

Acceptable materials are: Southern Folger No.4-1s or approved equal.

2.3 DETENTION DOOR
HARDWARE

.1 Security Lock:

.1 High security Pin Tumbler, mechanical lock for swinging doors (Medium to Maximum Security) keyed one or two sides, Paracentric cylinder (s).

Stainless steel latch bolt deadlocks automatically when door is in closed position.

Acceptable materials are: 60 series as manufactured by Southern Folger.

.2 High Security Pin Tumbler, mortise mechanical lock for swinging food pass doors keyed one side only, paracentric cylinder (s).

Acceptable materials are: 17 series as manufactured by Southern Folger.

.3 High Security Locking & Operating roller chain, remote electric and local mechanical system for individual sliding doors not exceeding 450lbs. Device will unlock, open, or unlocks, closes and deadlocks closed. A door stopped in mid-travel may be open or closed manually.

Acceptable materials are: D2.B.3 series Door operator as manufactured by Southern Folger.

.4 Butts and Hinges: to CGSB-69.18, meeting ANSI Standards for performance, non-removable pins, with safety stuffs projecting into door frame and door (RSS), 114 x 114 x 4.75mm, 8mm pin diameter, hospital tip, numerical identifiers followed by size, options and finish in listings

- .5 #5 Heavy Prison hinges: To be supplied with bolt holes to be bolted to both door & frame on site 125mm x 150mm x 12.5mm thick. USP Primed.
- .6 #3FP Heaving Prison hinges: To be supplied with forged built in stop 10mm -16 x 19mm flat head security screws. 75mm x 102mm x 10mm thick. USP Primed.

2.4 FASTENINGS

- .1 Use only fasteners provided by manufacturer. Failure to comply may void warranties and applicable licensed labels.
- .2 Supply screws, bolts, expansion shields and other fastening devices required for satisfactory installation and operation of hardware.
- .3 Exposed fastening devices to match finish of hardware.
- .4 Use fasteners compatible with material through which they pass.

2.5 DETENTION DOOR FASTENINGS

- .1 Supply screws, bolts, expansion shields and other fastening devices required for satisfactory installation and operation of hardware.
- .2 All screw type fasteners for application of hardware items except those to be welded, shall be "Security Torx" type of the size and length as recommended by the manufacturer. Supply 2-10mm drive socket wrenches for each size for maintenance purposes.
- .3 Exposed fastening devices to match finish of hardware.
- .4 Use fasteners compatible with material through which they pass

2.6 KEYING

- .1 Doors to be keyed alike in groups, master keyed, grand master keyed, as directed. Prepare detailed keying schedule in conjunction with Departmental Representative.
- .2 Provide keys in duplicate for every lock in this Contract.
- .3 Provide three master keys for each MK or GMK group.

- .4 Stamp keying code numbers on keys and cylinders.
- .5 Provide construction cores.
- .6 Provide all permanent cores and keys to Departmental Representative.

2.7 DETENTION DOOR KEYINGS

- .1 Mogul System: cores, cylinders and keying by lock manufacturer as continuation of current institution key groups.
- .2 Provide 3 keys minimum per key code, keyed as directed.

PART 3 - EXECUTION

3.1 INSTALLATION INSTRUCTION

- .1 Furnish metal door and frame manufacturers with complete instructions and templates for preparation of their work to receive hardware.
- .2 Furnish manufacturers' instructions for proper installation of each hardware component.
- .3 Install hardware to standard hardware location dimensions in accordance with Canadian Metric Guide for Steel Doors and Frames (Modular Construction) prepared by Canadian Steel Door and Frame Manufacturers' Association.
- .4 Where door stop contacts door pulls, mount stop to strike bottom of pull.
- .5 Remove construction cores when directed by Departmental Representative; install permanent cores and check operation of all locks.

3.2 SCHEDULE

Door DC1002		
1-1/2 pr.	Hinges ST FBB 179 114 x 101	C26D
1	Office function Set (F81)	C26D
1 set	Weatherstrip K.N. Crowder W-22	
1	Auto Door Bottom K.N. Crowder CT-54	Alum
1	Door Stop SG 599S	C26D

Doors D4.B.1, D4.B.2, D4.B.3, D4.B.4, D4.B.6, D4.B.7, D4.B.8, D4.B.10
1 High Security Pin Tumbler Series 17 by Southern Folger
1 High Security locking/operating roller chain D2B3 by Southern
Folger
1 pr. Prison Hinges #3 FP
1 Keying Mogul System

END OF SECTION

PART 1 GENERAL

1.1 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM C542-05(2011), Specification for Lock-Strip Gaskets.
 - .2 ASTM D790-15e12, Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
 - .3 ASTM D2240-15, Test Method for Rubber Property - Durometer Hardness.
 - .4 ASTM E84-15b, Test Method for Surface Burning Characteristics of Building Materials.
 - .5 ASTM F1233-08(2013), Test Method for Security Glazing Materials and Systems.
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-12.1-M90, Tempered or Safety Laminated Glass.
 - .2 CAN/CGSB-12.2-M91, Flat, Clear Sheet Glass.
 - .3 CAN/CGSB-12.3-M91, Flat, Clear Float Glass.
- .3 Environmental Choice Program (ECP).
 - .1 CCD-045-95, Sealants and Caulking.
- .4 Flat Glass Manufacturers Association (FGMA).
 - .1 FGMA Glazing Manual - 1997.
- .5 Laminators Safety Glass Association (LSGA).
 - .1 LSGA Laminated Glass Design Guide 2000.

1.2 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's:
 - .1 For glazing materials during application and curing.
 - .2 Shop Drawings:
 - .3 Submit shop drawings in accordance

with Section 01 33 00 - Submittal Procedures.

- .3 Samples:
 - .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Submit duplicate 300 mm size square samples of each type of glass.
- .4 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.
- .5 Closeout Submittals:
 - .1 Provide maintenance data including cleaning instructions for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.3 QUALITY ASSURANCE

- .1 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
 - .1 Provide testing and analysis of glass under provisions of Section 01 45 00 - Quality Control.
 - .2 Provide shop inspection and testing for glass.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3 Pre-installation Meetings: conduct pre-installation meeting to verify project requirements, manufacturer's installation instructions and manufacturer's warranty requirements.

1.4 SITE CONDITIONS

- .1 Environmental Requirements:
 - .1 Install glazing when ambient is temperature is 10 degrees C minimum. Maintain ventilated environment for 24 hours after application.
- .2 Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

1.5 WASTE

- .1 Separate and recycle waste materials in

MANAGEMENT AND
DISPOSAL

accordance with Section 01 74 21 - Construction / Demolition Waste Management and Disposal.

- .2 Divert metal cut-offs from landfill by disposal into on-site metal recycling bin.
- .3 Divert uninstalled materials for reuse at nearest used building materials facility or similar type facility.
- .4 Divert unused caulking and sealant materials from landfill through disposal at special wastes depot.
- .5 Unused or damaged glazing materials are not recyclable and must not be diverted to municipal recycling programs.
- .6 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .7 Dispose of corrugated cardboard, polystyrene, plastic and packaging material in appropriate on-site bin for recycling in accordance with site waste management program.

PART 2 PRODUCTS

2.1 MATERIALS: FLAT
GLASS

- .1 Safety glass (glass type A1): to CAN/CGSB-12.1, transparent, 6mm thick.
 - .1 Type 2-Fully tempered.
 - .2 Class B-float.
 - .3 Category 11.
- .2 Security Glazing (Glass Type K1): 17.5 mm thick laminated unit, consisting of one lite of 3.16 mm chemically strengthened tempered glass, with 1.27 mm polyurethane based interlayer, one lite of 9.48 mm polycarbonate core, 1.27 mm polyurethane based interlayer, one lite 3.16 mm chemically strengthened tempered glass. Forced entry level 2, Ballistic Level A. Acceptable Product: Globe Amerada Architectural Glass, product 2116; No Substitution.
- .3 Security Glazing (Glass type K2): 23.8 mm thick laminated unit, consisting of one lite of 3.16 mm chemically strengthened tempered glass, with 1.27 mm polyurethane based interlayer, one lite

of 3.16 mm polycarbonate core, 0.64 mm polyurethane based interlayer, one lite of 6.4 mm polycarbonate core, 0.64 mm polyurethane based interlayer, one lite of 3.16 mm polycarbonate core, 1.27 mm polyurethane based interlayer, one lite 3.16 mm chemically strengthened tempered glass. Forced entry level 4, Ballistic Level A. Acceptable Product: Globe Amerada Architectural Glass, product 2114; No Substitution.

2.2 ACCESSORIES

- .1 Glazing Tape: 100% solids, ribbon form extruded polyisobutylene - butyl type, 10-15 durometer hardness, paper release, colour to match adjacent surfaces, size to suit opening.
- .2 Setting Blocks: Neoprene: 70-90 durometer Shore "A" hardness, 100 mm long x 9.5 mm thick x 6 mm high.
- .3 Spacer Shims: Neoprene: 50 durometer hardness, 75 mm x 2.4 mm thick x 6 mm high

PART 3 EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: Comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 EXAMINATION

- .1 Verify that openings for glazing are correctly sized and within tolerance.
- .2 Verify that surfaces of glazing channels or recesses are clean, free of obstructions, and ready to receive glazing.

3.3 PREPARATION

- .1 Clean contact surfaces with solvent and wipe dry.
- .2 Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- .3 Prime surfaces scheduled to receive sealant.

3.4 INSTALLATION:
INTERIOR - DRY
METHOD (TAPE AND
TAPE) TO HOLLOW
METAL DOORS AND
WINDOWS, DETENTION
DOORS AND FRAMES

- .1 Cut glazing tape to length and set against permanent stops, projecting 1.6mm above sight line.
- .2 Place setting blocks at 1/4 points, with edge block maximum 159mm from corners.
- .3 Rest glazing on setting blocks and push against tape for full contact at perimeter of light or unit.
- .4 Rest glazing on setting blocks and push against tape for full contact at perimeter of light or unit.
- .5 Place glazing tape on free perimeter of glazing in same manner described.
- .6 Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.
- .7 Knife trim protruding tape.

3.5 CLEANING

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Remove traces of primer, caulking.
- .3 Remove glazing materials from finish surfaces.
- .4 Remove labels after work is complete.
- .5 Clean glass using approved non-abrasive cleaner in accordance with manufacturer's instructions.
- .6 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

3.6 PROTECTION OF
FINISHED WORK

- .1 After installation, mark light with an "X" by using removable plastic tape or paste.

END OF SECTION