
PART 1 - GENERAL

1.1 REFERENCES

- .1 Canadian Standards Association (CSA).
 - .1 CSA A101-M1983, Thermal Insulation, Mineral Fibre, for Buildings.
 - .2 CAN/CSA-G40.21-M92, Structural Quality Steels.
 - .3 CSA W59-M1989, Welded Steel Construction (Metal Arc Welding).
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-1.181-92, Ready-Mixed Organic Zinc-Rich Coating.
 - .2 CGSB 41-GP-19Ma-84, Rigid Vinyl Extrusions for Windows and Doors.
 - .3 CAN/CGSB-51.20-M87, Thermal Insulation, Polystyrene, Boards and Pipe Covering.
 - .4 CGSB-51-GP-21M-78, Thermal Insulation, Urethane and Isocyanurate, Unfaced.
- .3 American Society for Testing and Materials (ASTM).
 - .1 ASTM A 525M-91b, Specification for General Requirements for Steel Sheet Zinc-Coated (Galvanized) by the Hot-Dip Process (Metric).
 - .2 ASTM A 526M-90, Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Commercial Quality.
 - .3 ASTM A 527M-90, Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Lock-Forming Quality.
 - .4 ASTM B 29-92, Specification for Pig Lead.
 - .5 ASTM B 749-85 (1991), Specification for Lead and Lead Alloy Strip, Sheet and Plate Products.
 - .6 ASTM E 152-81a, Methods for Fire Tests of Door Assemblies.
- .4 Canadian Steel Door & Frame Manufacturers' Association (CSDFMA).
 - .1 CSDFMA, Specifications for Commercial Steel Doors and Frames, 1990.

1.2 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00.
- .2 Indicate each type of door, material, steel core thicknesses, mortises, reinforcements, location of exposed fasteners, openings, glazed, louvred, 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.

1.3 REQUIREMENTS OF REGULATORY AGENCIES

- .1 Steel fire rated doors and frames: labelled and listed by an organization accredited by Standards Council of Canada in conformance with CAN4-S104M for ratings specified or indicated.
- .2 Provide fire labelled frame products for those openings requiring fire protection ratings, as scheduled. Test products in strict conformance with CAN4-S104, ASTM E152 or NFPA 252 and list by nationally recognized agency having factory inspection service to construct as detailed in Follow-Up Procedures/Factory Inspection Manuals issued by listing agency to individual manufacturers.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Hot dipped galvanized steel sheet: to ASTM A 526M coating designation to ASTM A 525M, ZF75, minimum 18 gauge base steel thickness.
- .2 Reinforcement channel: to CAN/CSA-G40.21, Type 44W, coating designation to ASTM A 525M, ZF75.
- .3 Composites: balance of core materials used in conjunction with lead: in accordance with manufacturer's proprietary design.

2.2 PRIMERS

- .1 Touch-up prime CAN/CGSB-1.181.
- .2 Primers not to exceed VOC content of 100 g/L as noted in SCAQMD Rule 1113.

2.3 ACCESSORIES

- .1 Fabricate glazing stops as formed channel, minimum 16mm height, accurately fitted, butted at corners and fastened to frame sections with counter-sunk oval head sheet metal screws.

- .2 Metallic paste filler: to manufacturer's standard.
- .3 Fire labels to carry Fire Underwriter's Laboratory rating as required by the drawings: metal riveted.
- .4 Sealant: in accordance with Section 07 92 10.
- .5 Make provisions for glazing as indicated and provide necessary glazing stops.

2.4 FRAMES FABRICATION GENERAL

- .1 Fabricate frames in accordance with CSDFMA specifications.
- .2 Fabricate frames to profiles and maximum face sizes as indicated.
- .3 Interior frames: 1.6mm base steel thickness welded type construction. Exterior frames: 1.83mm base steel thickness welded type construction, thermally broken.
- .4 Blank, reinforce, drill and tap frames for mortised, templated hardware and electronic hardware using templates provided by finish hardware supplier. Reinforce frames for surface mounted hardware.
- .5 Protect mortised cutouts with minimum 22 gauge thickness steel guard boxes.
- .6 Prepare frame for door silencers, three (3) for single door, two (2) at head for double door.
- .7 Manufacturer's nameplates on frames and screens are not permitted.
- .8 Conceal fastenings except where exposed fastenings are indicated.
- .9 Provide factory-applied touch up primer at areas where zinc coating has been removed during fabrication.

2.5 FRAME ANCHORAGE

- .1 Provide appropriate anchorage to floor and wall construction.
- .2 Locate each wall anchor immediately above or below each hinge reinforcement on hinge jamb and directly opposite on strike jamb.
- .3 Provide two (2) anchors for rebate opening heights up to 1500mm and one (1)

additional anchor for each additional 750mm of height or fraction thereof.

- .4 Locate anchors for frames in existing openings not more than 150mm from top and bottom of each jambs and intermediate at 660mm o.c. maximum.

2.6 FRAMES: WELDED TYPE

- .1 Welding in accordance with CSA W59.
- .2 Accurately mitre or mechanically joint frame product and securely weld on inside of profile.
- .3 Cope accurately and securely weld butt joints of mullions, transom bars, centre rails and sills.
- .4 Grind welded joints and corners to a flat plane, fill with metallic paste and sand to uniform smooth finish
- .5 Securely attach floor anchors to inside of each jamb profile.
- .6 Weld in two (2) temporary jamb spreaders per frame to maintain proper alignment during shipment.

PART 3 - EXECUTION

3.1 INSTALLATION GENERAL

- .1 Install labelled steel fire rated doors and frames to NFPA 80 except where specified otherwise.
- .2 Install doors and frames to CSDFMA Installation Guide.

3.2 FRAME INSTALLATION

- .1 Set frames plumb, square, level and at correct elevation.
- .2 Secure anchorages and connections to adjacent construction.
- .3 Brace frames rigidly in position while building-in. Install temporary horizontal wood spreader at third points of door opening to maintain frame width. Provide vertical support at centre of head for openings over 1220mm wide. Remove temporary

spreaders after frames are built-in.

- .4 Make allowances for deflection of structure to ensure structural loads are not transmitted to frames.
- .5 Allow for 3mm gap between frame and inside finish material and caulk perimeter of frames between frame and adjacent material.
- .6 Maintain continuity of air barrier and vapour retarder.
- .7 Ensure thresholds in barrier free path of travel do not exceed 12mm in total height above finish flooring.

3.3 FINISH REPAIRS

- .1 Touch up with primer finishes damaged during installation.
- .2 Fill exposed frame anchors and surfaces with imperfections with metallic paste filler and sand to a uniform smooth finish.

3.4 GLAZING

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

END OF SECTION 08 11 14

PART 1 - GENERAL

1.1 REFERENCES

- .1 Canadian Standards Association (CSA)
 - .1 CSA 0115-M1982, Hardwood and Decorative Plywood.
 - .2 CAN/CSA 0132.2 Series-90, Wood Flush Doors.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-71.19-M88, Adhesive, Contact, Sprayable.
 - .2 CAN/CGSB-71.20-M88, Adhesive, Contact, Brushable.
- .3 Architectural Woodwork Manufacturers Association of Canada (AWMAC)
 - .1 Quality Standards for Architectural Woodwork, latest edition.

1.2 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00.
- .2 Indicate door types and cut-outs for lights and louvres, sizes, core construction, transom panel construction and cut-outs.

1.3 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00.
- .2 Submit one (1) 300mm x 300mm corner sample of each type wood door.
- .3 Show door construction, core, glazing detail and faces.

1.4 STORAGE & PROTECTION

- .1 Protect doors from dampness. Arrange for delivery after Work causing abnormal humidity has been completed.
- .2 Store doors in well ventilated room, off floor, in accordance with manufacturer's recommendations.
- .3 Protect doors from scratches, handling marks and other damage. Wrap doors.

1.5 EXTENDED WARRANTY

- .1 Submit a Warranty of the Work of this Section for a period of **two (2) years** as specified in the General Conditions of the Contract.
- .2 Defective Work shall include, but not be restricted to: surface blemishes, showing of core ghost lines, splitting, delamination, sagging, deterioration of core, and warping and twisting in excess of deformation allowed by CSA Standard 0132.2.
- .3 Replacement during the Warranty Period shall include fitting, installation, reinstallation of hardware, grilles and glass, and finishing to match replaced door.

PART 2 - PRODUCTS

2.1 WOOD FLUSH DOORS

- .1 Solid core: to CAN/CSA-0132.2.1
 - .1 Construction:
 - .1 Solid particleboard core: stile and rail frame bonded to particleboard core with wood lock blocks and special wood blocking, 3-ply construction.
 - .1 125mm laminated wood stile including 16mm hardwood edge.
 - .2 28 PCF particle core to CSA-0188.
 - .3 55mm laminated wood top and bottom rails.
 - .4 Face:
 - .1 Stain grade oak.
 - .5 Total thickness: 44mm
 - .2 Adhesive: Type II water resistant for interior doors.
 - .3 Composite wood products and adhesives may not contain added urea-formaldehyde.

2.2 GLAZING

- .1 Glass and Accessories in accordance with Section 08 80 50 Glazing.

2.3 FABRICATION

- .1 Vertical edge strips to match face veneer, maple for hardboard veneer.
- .2 Prepare doors for louvres and glazing. Provide hardwood species to match face veneer glazing stops with mitred corners.
- .3 Bevel vertical edges of single acting doors 3mm in 52mm on lock side and 1.5mm in 52mm on hinge side.
- .4 Prepare doors for standard hardware all to match or relocate existing as indicated on drawings.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Unwrap and protect doors in accordance with CAN/CSA-0132.2 Series, Appendix A.
- .2 Install doors and hardware in accordance with manufacturer's printed instructions and CAN/CSA-0132.2 Series, Appendix A.
- .3 Adjust hardware for correct function.
- .4 Install glazing in accordance with Section 08 80 50 Glazing.
- .5 Install louvres and stops.

.2 ADJUSTMENT

- .1 Re-adjust doors and hardware just prior to completion of building to function freely and properly.

END OF SECTION 08 14 10

PART 1 GENERAL

1.1 RELATED SECTIONS

- .1 Section 01 33 00 – Submittal Procedures.
- .2 Section 08 14 10 – Flush Wood Doors.
- .3 Section 08 11 14 – Metal Doors and Frames.

1.2 REFERENCE STANDARDS

- .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 NFPA – National Fire Protection Agency.
 - .1 NBC
 - .2 NFPA-80
 - .3 NFPA101 – Life Safety
 - .4 NFPA-105 – Smoke and Draft Control
- .3 American National Standards Institute, ANSI A117.1 Specification
 - .1 ANSI/BHMA A156.1-2006, Butts and Hinges.
 - .2 ANSI/BHMA A156.2-2011, Bored and Preassembled Locks and Latches.
 - .3 ANSI/BHMA A156.3-2008, Exit Devices.
 - .4 ANSI/BHMA A156.4-2008, Door Controls (Closers).
 - .5 ANSI/BHMA A156.5-2010, Auxiliary Locks and Associated Products.
 - .6 ANSI/BHMA A156.6-2010, Architectural Door Trim.
 - .7 ANSI/BHMA A156.8-2010, Door Controls - Overhead Holders.
 - .8 ANSI/BHMA A156.7-2009, Template Hinge Dimensions.
 - .9 ANSI/BHMA A156.12-2005, Interconnected Locks and Latches.
 - .10 ANSI/BHMA A156.13-2005, Mortise Locks and Latches.
 - .11 ANSI/BHMA A156.14-2002, Sliding and Folding Door Hardware.
 - .12 ANSI/BHMA A156.15-2006, Closer/Holder Release Device.
 - .13 ANSI/BHMA A156.16-2008, Auxiliary Hardware.
 - .14 ANSI/BHMA A156.17-2006, Self-closing Hinges and Pivots.
 - .15 ANSI/BHMA A156.18-2006, Materials and Finishes.
 - .16 ANSI/BHMA A156.19-2007, Power Assist/Low Energy Power Operated Doors.
 - .17 ANSI/BHMA A156.22-2012, Door Gasketing and Edge Seal Systems.

1.3 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 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.
- .3 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.
- .4 Manufacturer's Instructions and Electrical Wiring and Riser Diagrams:
 - .1 Submit manufacturer's installation instructions, wiring and riser diagrams for all electrical hardware components listed in the schedule.
- .5 Closeout Submittals
 - .1 Provide operation and maintenance data for door closers, locksets, door holders, electrified hardware, and fire exit hardware for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.4 QUALITY ASSURANCE

- .1 Regulatory Requirements:
 - .1 Hardware for doors in fire separations and exit doors certified by a Canadian Certification Organization accredited by Standards Council of Canada.
- .2 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .3 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .4 Pre-installation Meetings: conduct pre-installation meeting to verify project requirements, manufacturer's installation instructions and manufacturer's warranty requirements. Comply with Section 08 71 10.

1.5 DELIVERY, STORAGE, AND HANDLING

- .1 Packing, Shipping, Handling and Unloading:
 - .1 Deliver, store, handle and protect materials in accordance with Section 01 61 00 - Common Product Requirements.
 - .2 Package each item of hardware including fastenings, separately or in like groups of hardware, label each package as to item definition and location.
- .2 Storage and Protection:
 - .1 Store finishing hardware in locked, clean and dry area.

PART 2 PRODUCTS

2.1 HARDWARE ITEMS

- .1 Use one manufacturer's products only for similar items.

2.2 DOOR HARDWARE

- .1 Locks and latches - Mortise:
 - .1 Mortise locks and latches: to CAN/CGSB-69.29, series 1000 mortise lock, grade 1, designed for function and keyed as directed by consultant, and as listed in Hardware Schedule.
 - .2 Lever handles: solid cast curved design, with full return to door.
 - .3 Roses: 54 mm diameter, round.
 - .4 Normal strikes: box type, lip projection not beyond jamb.
 - .5 Cylinders: Schlage Everest 29 Restricted Keyway for keying system as directed
 - .6 Latchbolts: to be two-piece anti-friction, 3/4" throw.
 - .7 Lock functions: to be supplied as listed in hardware schedule.
 - .8 Finished to 626, Satin Chromium Plated.
 - .9 Specified products: Schlage L9000Series-17
Approved products: Sargent 8200 Series-LNP, Corbin ML2000 Series-PSA
- .2 Butts and hinges:
 - .1 Butts and hinges: to CAN/CGSB-69.18, designated by letter A and numeral identifiers, followed by size and finish, listed in Hardware Schedule.
 - .2 Specified products: Butt Hinges - Ives 5BB1/5BB1HW Series – 26D / 32D
Approved products: Hinges - Hager Hinge BB1279/BB1068/BB1191 Series – 26D / 32D; Stanley FBB179/FBB168/FBB191 Series – 26D / 32D

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- .3 Architectural door trim:
 - .1 to CAN/CGSB-69.22, designated by letter J and numeral identifiers listed in Hardware Schedule, finished to 630.
 - .2 Door protection plates: kick plate type J01, 1.27 mm thick stainless steel, finished to 630.
 - .3 Push plates: type J01, 1.27 mm thick stainless steel, edge beveled, size as listed in Hardware Schedule, finished to 630.
 - .4 Specified products: Ives Hardware
Approved products: Gallery Specialty Hardware; Canadian Builders Hardware
 - .4 Auxiliary hardware: to CAN/CGSB-69.32, designated by letter L and numeral identifiers listed in Hardware Schedule, finished to 626.
 - .1 Door stop, floor mounted: universal type, rubber bumper, finished to 626.
 - .2 Lever extension flush bolt, type UL, finish to 626.
 - .3 Door silencer: by frame supplier.
 - .4 Automatic flush bolts: type UL, finish to 626.
 - .5 Specified products: Door stops - Ives Hardware;
Flush bolts – Ives.
Approved products: Door stops - Hager Hinge; Canadian Builders Hardware;
Flush bolts – Trimco; Gallery Specialty Hardware.
 - .5 Door bottom seal: heavy duty, door seal of extruded aluminum frame and solid closed cell neoprene seal, surface mounted, closed ends, adjustable automatic retract mechanism when door is open, clear anodized finish.
 - .1 Specified products: DraftSeal
Approved products: Zero; Pemko
 - .6 Thresholds: 127 mm wide x full width of door opening, extruded aluminum mill finish, serrated surface, with thermal break of rigid PVC.
 - .1 Specified products: DraftSeal
Approved products: Zero; Pemko
 - .7 Weatherstripping:
 - .1 Head and jamb seal:
 - .1 Extruded aluminum frame and solid closed cell neoprene insert, clear anodized finish.
 - .2 Door bottom seal:
 - .1 Extruded aluminum frame and closed cell neoprene or nylon brush sweep, clear anodized finish.
 - .3 Specified products: DraftSeal
Approved products: Zero; Pemko

- .8 Astragal: adjustable compensating extruded aluminum frame with pile insert, clear anodized finished.
- .1 Specified products: DraftSeal
Approved products: Zero; Pemko

2.3 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 Where pull is scheduled on one side of door and push plate on other side, supply fastening devices, and install so pull can be secured through door from reverse side. Install push plate to cover fasteners.
- .5 Use fasteners compatible with material through which they pass.

2.4 KEYING

- .1 Door locks to be keyed differently and master keyed under current keying system as directed. Prepare keying schedule in conjunction with Project Manager and Departmental Representative.
- .2 Provide keys in triplicate (3) for every lock in this Contract.
- .3 Provide three (3) masterkeys for each MK group.
- .4 Stamp all change keys with keyset number and keyway.
- .5 Provide listing of “Bitings” or “Keyset” for all door cylinder keys to Project Manager and Departmental Representative.

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.
- .2 Furnish metal door and frame manufacturers with complete instructions and templates for preparation of their work to receive hardware.
- .3 Furnish manufacturers' instructions for proper installation of each hardware component.

3.2 INSTALLATION

- .1 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.
- .2 Where door stop contacts door pulls, mount stop to strike bottom of pull.
- .3 Install key control cabinet.
- .4 Use only manufacturer's supplied fasteners. Failure to comply may void manufacturer's warranties and applicable licensed labels. Use of "quick" type fasteners, unless specifically supplied by manufacturer, is unacceptable.
- .5 Remove construction cores when directed by Departmental Representative or Consultant; install permanent cores and check operation of locks.

3.3 ADJUSTING

- .1 Adjust door hardware, operators, closures and controls for optimum, smooth operating condition, safety and for weather tight closure.
- .2 Lubricate hardware, operating equipment and other moving parts.
- .3 Adjust door hardware to provide tight fit at contact points with frames.

3.4 CLEANING

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Clean hardware with damp rag and approved non-abrasive cleaner, and polish hardware in accordance with manufacturer's instructions.
- .3 Remove protective material from hardware items where present.
- .4 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

3.5 SCHEDULE

Hardware Set #H-1 - Single Office Door; Each to have:

3 Hinges Ives 5BB1 114 x 101 - 652
1 Mortise Lockset F04 Schlage L9056R-17/A x MK'd - 626
1 Door Stop Ives FS439 - 626
1 Set Door Seal DraftSeal DS340CS x 5182 - AL
1 Auto Door Bottom DraftSeal DS343CR x 914 - AL

END OF SECTION 08 71 10

PART 1 - GENERAL

1.1 REFERENCES

- .1 ANSI/ASTM E330-90 Test Method for Structural Performance of Exterior Windows, Curtain walls and Doors by Uniform Static Air Pressure Difference.
- .2 ASTM C542-90 Specification for Lock-Strip Gaskets.
- .3 ASTM D790-91 Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
- .4 ASTM D2240-91 Test Method for Rubber Property - Durometer Hardness.
- .5 CAN/CGSB-12.1-M90 Tempered or Laminated Safety Glass.
- .6 CAN/CGSB-12.3-M91 Flat, Clear Float Glass.
- .7 CAN/CGSB-12.5-M86 Mirrors, Silvered.
- .8 CAN/CGSB-12.8-M90 Insulating Glass Units.
- .9 CAN/CGSB-12.9-M91 Spandrel Glass.
- .10 CAN/CGSB-12.10-M76 Glass, Light and Heat Reflecting.
- .11 CAN/CGSB-12.11-M90 Wired Safety Glass.
- .12 Flat Glass Manufacturers Association (FGMA) Glazing Manual.

1.2 PERFORMANCE REQUIREMENTS

- .1 Provide continuity of building enclosure vapour and air barrier using glass and glazing materials as follows:
 - .1 Utilize inner light of multiple light sealed units for continuity of air and vapour seal.
- .2 Size glass to withstand wind loads, dead loads and positive and negative live loads acting normal to plane of glass.
- .3 Limit glass deflection to flexural limit of glass with full recovery of glazing materials.

1.3 CLOSEOUT SUBMITTALS

- .1 Provide maintenance data including cleaning instructions for incorporation into manual specified in Section 01 78 00 Closeout Submittals.

1.4 QUALITY ASSURANCE

- .1 Perform work in accordance with FGMA Glazing Manual, GMAC for glazing installation methods.

- .2 Maintain one (1) copy of each standard document on site.

1.5 ENVIRONMENTAL REQUIREMENTS

- .1 Install glazing when ambient temperature is 10°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.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Float glass: to CAN/CGSB-12.3 Glazing quality, 6 mm thick or as detailed.
- .2 Sheet glass: to CAN/CGSB-12.2, AA-Special selected, 6.0 mm thick or as detailed.
- .3 Safety glass: to CAN/CGSB-12.1, transparent or coloured, as detailed, 6 mm thick or as detailed.
 - .1 Type 2 tempered.
 - .2 Class B - float.
 - .3 Category II.
- .4 Wired glass: fire rated "Protect3 Safety Glass Square" by Glassopolis or equivalent.
- .5 Insulating Glass to CAN2-12.8-M76+Amdt-June79, with outer pane of 6mm clear glass and inner pane of 6mm clear glass with 25mm total thickness, argon filled, non-metallic spacers.

2.2 ACCESSORIES

- .1 Setting blocks: Neoprene, 80 - 90 Shore A durometer hardness to ASTM D2240, to suit glazing method, glass light weight and area.
- .2 Spacer shims: Neoprene, 40 - 50 Shore A durometer hardness to ASTM D2240, 75 mm long x one half height of glazing stop x thickness to suit application. Self-adhesive on one (1) face.
- .3 Glazing tape: Performed butyl compound with integral resilient tube spacing device, 10 - 15 Shore A durometer hardness to ASTM D2240; coiled on release paper; black

colour.

- 4 Glazing splines: resilient polyvinyl chloride, extruded shape to suit glazing channel retaining slot, black colour.
- 5 Lock-strip gaskets: to ASTM C542.

PART 3 - EXECUTION

3.1 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.

3.2 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.

3.3 INSTALLATION: EXTERIOR – DRY METHOD (PREFORMED GLAZING)

- .1 Cut glazing spline to length: install on glazing light. Seal corners by butting spline and sealing junctions with sealant.
- .2 Place setting blocks at ¼ points, with edge block maximum 150mm from corners.
- .3 Rest glazing on setting blocks and push against fixed stop with sufficient pressure to attain full contact.
- .4 Install removable stops without displacing glazing spline. Exert pressure for full continuous contact.
- .5 Trim protruding tape edge.

3.4 INSTALLATION: INTERIOR – DRY METHOD (TAPE AND TAPE)

- .1 Cut glazing tape to length and set against permanent stops, projecting 1.6mm above sight line.
- .2 Place setting blocks at ¼ points, with edge block maximum 150mm from corners.
- .3 Rest glazing on setting blocks and push against tape for full contact at perimeter of light or unit.
- .4 Place glazing tape on free perimeter of glazing in same manner described in Clause 3.4.3 above.
- .5 Install removable stop without displacement of tape. Exert pressure on tape for full continuous contact.
- .6 Knife trim protruding tape.

3.5 CLEANING

- .1 Remove glazing materials from finish surfaces.
- .2 Remove labels after work is complete.
- .3 Clean glass and mirrors.

END OF SECTION 08 80 50