INSPECTIONS

UPON COMPLETION OF EACH ROOFING JOB, CONTRACTOR SHALL FILL OUT INSPECTION CARD AND RETURN TO MANUFACTURER. EACH ROOM SHALL BE INSPECTED BY AN AUTHORIZED QUALITY CONTROL FIELD INSPECTOR TO MAKE SURE APPLICATION MEETS MANUFACTURER'S SPECIFICATIONS, BEFORE ISSUANCE OF WARRANTY. CONTRACTOR SHALL ACCOMPANY INSPECTOR ON INSPECTIONS AND OBTAIN SIGNED WARRANTY FROM CUSTOMER AND RETURN TO MANUFACTURER, WITH NO FINAL PAYMENT BEING MADE UNTIL A TIM HORTONS REPRESENTATIVE HAS WARRANTY.

CONTRACTOR QUALIFICATION ASSURANCE

THE ROOFING CONTRACTOR SHALL BE DULY CERTIFIED BY ROOFING MANUFACTURER FOR COMPLETE APPLICATION AND INSTALLATION OF THIS ROOFING SYSTEM. TO MAINTAIN ROOF WARRANTY, FUTURE REPAIRS AND ALTERATIONS SHALL BE MADE BY PERSONNEL DULY CERTIFIED BY ROOFING MANUFACTURER.

MADD ANTY

THE OWNER SHALL BE FURNISHED AND WILL SIGN FOR ACCEPTANCE OF A STANDARD ROOFING MANUFACTURER'S 15 YEAR LIMITED WARRANTY.

WEATHER BARRIERS

USE WHEN WEATHER BARRIER IS INSTALLED BEFORE THE WINDOW AND DOOR INSTALLATION.

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. WEATHER BARRIER MEMBRANE
- B. SEAM TAPE
- C. FLASHING
- D. FASTENERS

REFERENCES

- A. ASTM INTERNATIONAL
- 1. ASTM C920; STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS
- 2. ASTM C1193; STANDARD GUIDE FOR USE OF JOINT SEALANTS
- 3. ASTM D882; TEST METHOD FOR TENSILE PROPERTIES OF THIN PLASTIC SHEETING
- A CTNA DITTY OF AND ADD CHIEF FOR EVALUATING NONLYMOVEN FARDICE
- 4. ASTM D1117; STANDARD GUIDE FOR EVALUATING NON-WOVEN FABRICS
- 5. ASTM E84; TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS
- 6. ASTM E96; TEST METHOD FOR WATER VAPOR TRANSMISSION OF MATERIALS
- 7. ASTM E1677; SPECIFICATION FOR AIR RETARDER MATERIAL OR SYSTEM FOR FRAMED BUILDING WALLS
- 8. ASTM E2178; TEST METHOD FOR AIR PERMEANCE OF BUILDING MATERIALS
- B. AATCC AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS
- 1. TEST METHOD 127 WATER RESISTANCE: HYDROSTATIC PRESSURE TEST
- C. TAPPI
- . TEST METHOD T-410; GRAMS OF PAPER AND PAPERBOARD (WEIGHT PER UNIT AREA)
- 2. TEST METHOD T-460; AIR RESISTANCE (GURLEY HILL METHOD)

SUBMITTALS

- A. PRODUCT DATA: SUBMIT MANUFACTURER CURRENT TECHNICAL LITERATURE FOR EACH COMPONENT.
- B. SAMPLES: WEATHER BARRIER MEMBRANE, MINIMUM 8-1/2 INCHES BY 11 INCH.
- C. QUALITY ASSURANCE SUBMITTALS
- 1. DESIGN DATA, TEST REPORTS: PROVIDE MANUFACTURER TEST REPORTS INDICATING PRODUCT COMPLIANCE WITH INDICATED REQUIREMENTS.
- 2. MANUFACTURER INSTRUCTIONS: PROVIDE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.

QUALITY ASSURANCE

- A. QUALIFICATIONS
- INSTALLER SHALL HAVE EXPERIENCE WITH INSTALLATION OF WEATHER BARRIER ASSEMBLIES UNDER SIMILAR CONDITIONS.
- 2. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES AND RECOMMENDATIONS.
- 3. SOURCE LIMITATIONS: PROVIDE WEATHER BARRIER AND ACCESSORY MATERIALS PRODUCED BY SINGLE MANUFACTURER.
- B. MOCK-UPS
- 1. INSTALL MOCK-UP USING APPROVED WEATHER BARRIER ASSEMBLY INCLUDING FASTENERS, FLASHING, TAPE AND RELATED ACCESSORIES PER MANUFACTURER'S CURRENT PRINTED INSTRUCTIONS AND RECOMMENDATIONS.
- a. MOCK-UP SIZE: (10 FEET BY 10 FEET) (INSERT SIZE).
- b. Mock-up substrate: match wall assembly construction, including window opening.
- c. MOCK-UP MAY REMAIN AS PART OF THE WORK.

DELIVERY, STORAGE AND HANDLING

- A. DELIVER WEATHER BARRIER MATERIALS AND COMPONENTS IN MANUFACTURER'S ORIGINAL, UNOPENED, UNDAMAGED CONTAINERS WITH IDENTIFICATION LABELS INTACT.
- B. STORE WEATHER BARRIER MATERIALS AS RECOMMENDED BY SYSTEM MANUFACTURER.

SCHEDULING

A. REVIEW REQUIREMENTS FOR SEQUENCING OF INSTALLATION OF WEATHER BARRIER ASSEMBLY WITH INSTALLATION OF WINDOWS, DOORS, LOUVERS AND FLASHINGS TO PROVIDE A WEATHER-TIGHT BARRIER ASSEMBLY.

PART 2 - PRODUCTS

WEATHER BARRIER

- A. A NON-PERFORATED, NONWOVEN, NON-ABSORBING, BREATHABLE MEMBRANE PROVIDING AIR FLOW, BULK WATER AND WIND DRIVEN RAIN PROTECTION WITH A RIBBED SURFACE TEXTURE THAT CHANNELS WATER AND MOISTURE TO THE OUTSIDE AND ALLOWS MOISTURE VAPOR TO ESCAPE FROM INSIDE WALLS.
- B. PHYSICAL PROPERTIES
- 1. SPUNBONDED POLYOLEFIN MEMBRANE.
- C. PERFORMANCE CHARACTERISTICS:
- 1. AIR PENETRATION: 0.004 CFM/FT2 AT 75 PA, WHEN TESTED IN ACCORDANCE WITH ASTM E2178. TYPE I PER ASTM E1677.
- 2. WATER VAPOR TRANSMISSION: 50 PERMS, WHEN TESTED IN ACCORDANCE WITH ASTM E96, METHOD B.
- 3. WATER PENETRATION RESISTANCE: MINIMUM 210 CM WHEN TESTED IN ACCORDANCE WITH AATCC TEST METHOD 127.
- 4. BASIS WEIGHT: MINIMUM 2.1 OZ/YD2, WHEN TESTED IN ACCORDANCE WITH TAPPI TEST METHOD T-410.
- 5. AIR RESISTANCE: AIR INFILTRATION AT 300 SECONDS, WHEN TESTED IN ACCORDANCE WITH TAPPI TEST METHOD T-460.
- 6. TENSILE STRENGTH: MINIMUM 30/30 LBS/IN., WHEN TESTED IN ACCORDANCE WITH
- ASTM D882, METHOD A.

7. TEAR RESISTANCE: 7/9 LBS, WHEN TESTED IN ACCORDANCE WITH ASTM D1117.

8. SURFACE BURNING CHARACTERISTICS: CLASS A, WHEN TESTED IN ACCORDANCE WITH ASTM E84. FLAME SPREAD: 5, SMOKE DEVELOPED: 25

ACCESSORIES

- A. SEAM TAPE: AS RECOMMENDED BY THE WEATHER BARRIER MANUFACTURER
- B. FASTENERS
- 1. STEEL FRAME CONSTRUCTION 1-5/8' INCH RUST RESISTANT SCREW WITH 2-INCH DIAMETER PLASTIC CAP OR MANUFACTURER APPROVED 1-1/4" OR 2" METAL GASKET WASHER AND/OR
- 2. WOOD FRAME CONSTRUCTION NAIL CAPS; #4 NAILS WITH LARGE 1-INCH PLASTIC CAP FASTENERS,
- 3. MASONRY CONSTRUCTION MASONRY TAP-CON FASTENERS WITH 2-INCH DIAMETER PLASTIC CAP FASTENER,
- C. SEALANTS
- 1. PROVIDE SEALANTS THAT COMPLY WITH ASTM C 920, ELASTOMERIC POLYMER SEALANT TO MAINTAIN WATERTIGHT CONDITIONS.
- 2. PRODUCTS: SEALANTS RECOMMENDED BY THE WEATHER BARRIER MANUFACTURER.
- D ADHESIV
- 1. PROVIDE ADHESIVE RECOMMENDED BY WEATHER BARRIER MANUFACTURER.
- E. PRIMER:
- 1. PROVIDE FLASHING MANUFACTURER RECOMMENDED PRIMER TO ASSIST IN ADHESION BETWEEN SUBSTRATE AND FLASHING.
- E ELASHINI
- 1. FLEXIBLE MEMBRANE FLASHING MATERIALS FOR WINDOW OPENINGS AND PENETRATIONS RECOMMENDED BY MANUFACTURER.
- 2. STRAIGHT FLASHING MEMBRANE MATERIALS FOR FLASHING WINDOWS AND DOORS AND SEALING PENETRATIONS AND MASONRY TIES, ETC. RECOMMENDED BY

PART 3 - EXECUTION

EXAMINATION

A. VERIFY SUBSTRATE AND SURFACE CONDITIONS ARE IN ACCORDANCE WITH WEATHER BARRIER MANUFACTURER RECOMMENDED TOLERANCES PRIOR TO INSTALLATION OF WEATHER BARRIER AND ACCESSORIES.

INSTALLATION - WEATHER BARRIER

- A. INSTALL WEATHER BARRIER OVER EXTERIOR FACE OF EXTERIOR WALL SUBSTRATE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- B. START WEATHER BARRIER INSTALLATION AT A BUILDING CORNER, LEAVING 6-12
- INCHES OF WEATHER BARRIER EXTENDED BEYOND CORNER TO OVERLAP.
- C. APPLY WRAP WITH GROOVED SURFACE PATTERN IN VERTICAL DIRECTION.
- D. INSTALL WEATHER BARRIER IN A HORIZONTAL MANNER STARTING AT THE LOWER PORTION OF THE WALL SURFACE. MAINTAIN WEATHER BARRIER PLUMB AND LEVEL.
- E. SHINGLE WEATHER BARRIER OVER BACK EDGE OF WEEP SCREED, SEAL WEATHER BARRIER WITH SEALANT OR TAPE TO WEEP SCREED, ENSURE WEEPS ARE NOT BLOCKED.
- F. SUBSEQUENT LAYERS SHALL OVERLAP LOWER LAYERS A MINIMUM OF 6 INCHES HORIZONTALLY IN A SHINGLING MANNER.
- G. WINDOW AND DOOR OPENINGS; EXTEND WEATHER BARRIER COMPLETELY OVER OPENINGS.

H. WEATHER BARRIER ATTACHMENT:

- 1. STEEL OR WOOD FRAME CONSTRUCTION ATTACH WEATHER BARRIER TO STUDS THROUGH EXTERIOR SHEATHING. SECURE USING WEATHER BARRIER MANUFACTURER RECOMMEND FASTENERS, SPACE 12 -18 INCHES VERTICALLY ON CENTER ALONG STUD LINE, AND 24 INCH ON CENTER, MAXIMUM HORIZONTALLY. AND/OR
- 2. MASONRY CONSTRUCTION ATTACH WEATHER BARRIER TO MASONRY. SECURE USING WEATHER BARRIER MANUFACTURER RECOMMEND FASTENERS, SPACE 12 -18 INCHES VERTICALLY ON CENTER AND 24 INCHES MAXIMUM HORIZONTALLY. WEATHER BARRIER MAY BE TEMPORARILY ATTACHED TO MASONRY USING RECOMMENDED ADHESIVE, PLACED IN VERTICAL STRIPS SPACED 24 INCHES ON CENTER, WHEN COORDINATED ON THE PROJECT SITE.
- I. APPLY FLASHING TO WEATHER BARRIER MEMBRANE PRIOR TO THE INSTALLATION CLADDING ANCHORS.

SEAMING

- A. SEAL SEAMS OF WEATHER BARRIER WITH SEAM TAPE AT ALL VERTICAL AND HORIZONTAL OVERLAPPING SEAMS.
- B. SEAL ANY TEARS OR CUTS AS RECOMMENDED BY WEATHER BARRIER MANUFACTURER.

OPENING PREPARATION (FOR USE WITH NON-FLANGED WINDOWS - ALL CLADDING TYPES)

- A. FLUSH CUT WEATHER BARRIER AT EDGE OF SHEATHING AROUND FULL PERIMETER OF OPENING.
- B. CUT A HEAD FLAP AT 45-DEGREE ANGLE IN THE WEATHER BARRIER AT WINDOW HEAD TO EXPOSE 8 INCHES OF SHEATHING, TEMPORARILY SECURE WEATHER BARRIER FLAP AWAY FROM SHEATHING WITH TAPE.

FLASHING (FOR USE WITH NON-FLANGED WINDOWS - ALL CLADDING TYPES)

- A. CUT FLEXIBLE FLASHING A MINIMUM OF 12 INCHES LONGER THAN WIDTH OF SILL ROUGH OPENING,
- B. COVER HORIZONTAL SILL BY ALIGNING FLEXIBLE FLASHING EDGE WITH INSIDE EDGE OF SILL, ADHERE TO ROUGH OPENING ACROSS SILL AND UP JAMBS A MINIMUM OF 6 INCHES, SECURE FLASHING TIGHTLY INTO CORNERS BY WORKING IN ALONG THE SILL BEFORE ADHERING UP THE JAMBS.
- C. FAN FLEXIBLE FLASHING AT BOTTOM CORNERS ONTO FACE OF WALL, FIRMLY PRESS IN PLACE. MECHANICALLY FASTEN FANNED EDGES.
- D. APPLY 9-INCH WIDE STRIPS OF FLASHING AT JAMBS. ALIGN FLASHING WITH INTERIOR EDGE OF JAMB FRAMING. START FLASHING AT HEAD OF OPENING AND LAP SILL FLASHING DOWN TO THE SILL.
- E. SPRAY-APPLY PRIMER TO TOP 6 INCHES OF JAMBS AND EXPOSED SHEATHING.
- F. INSTALL FLEXIBLE FLASHING AT OPENING HEAD USING SAME INSTALLATION PROCEDURES USED AT SILL. OVERLAP JAMB FLASHING A MINIMUM OF 2 INCHES.
- G. COORDINATE FLASHING WITH WINDOW INSTALLATION.
- H. ON EXTERIOR, INSTALL BACKER-ROD IN JOINT BETWEEN WINDOW FRAME AND FLASHED ROUGH FRAMING. APPLY SEALANT AT JAMBS AND HEAD, LEAVING SILL UNSEALED. APPLY SEALANTS IN ACCORDANCE WITH SEALANT MANUFACTURER'S INSTRUCTIONS AND ASTM C1193.
- I. POSITION WEATHER BARRIER HEAD FLAP ACROSS HEAD FLASHING, ADHERE USING 4-INCH WIDE FLASHING OVER THE 45-DEGREE SEAMS.
- J. TAPE TOP OF WINDOW IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- K. ON INTERIOR, INSTALL BACKER ROD IN JOINT BETWEEN FRAME OF WINDOW AND FLASHED ROUGH FRAMING, APPLY SEALANT AROUND ENTIRE WINDOW TO CREATE AIR SEAL. APPLY SEALANTS PER SEALANT MANUFACTURER'S INSTRUCTIONS

OPENING PREPARATION (FOR USE WITH FLANGED WINDOWS)

- A. CUT WEATHER BARRIER MEMBRANE IN A MODIFIED 'I-CUT' PATTERN.
- 1. CUT WEATHER BARRIER HORIZONTALLY ALONG THE BOTTOM OF THE HEADER,
- 2. CUT WEATHER BARRIER VERTICALLY 2/3 OF THE WAY DOWN FROM TOP CENTER OF WINDOW OPENING.
- 3. CUT WEATHER BARRIER DIAGONALLY FROM BOTTOM OF CENTER VERTICAL CUT TO THE LEFT AND RIGHT CORNERS OF THE OPENING.
- 4. FOLD SIDE AND BOTTOM WEATHER BARRIER FLAPS INTO WINDOW OPENING AND FASTEN.
- B. CUT A HEAD FLAP AT 45-DEGREE ANGLE IN THE WEATHER BARRIER MEMBRANE AT WINDOW HEAD TO EXPOSE 8 INCHES OF SHEATHING. TEMPORARILY SECURE WEATHER BARRIER MEMBRANE FLAP AWAY FROM SHEATHING WITH TAPE.

3.7 FLASHING (FOR USE WITH FLANGED WINDOWS)

ALONG THE SILL BEFORE ADHERING UP THE JAMBS.

ROUGH OPENING.

- A. CUT FLEXIBLE FLASHING A MINIMUM OF 12 INCHES LONGER THAN WIDTH OF SILL
- B. COVER HORIZONTAL SILL BY ALIGNING FLEXIBLE FLASHING EDGE WITH INSIDE EDGE OF SILL. ADHERE TO ROUGH OPENING ACROSS SILL AND UP JAMBS A MINIMUM OF 6 INCHES. SECURE FLASHING TIGHTLY INTO CORNERS BY WORKING IN
- C. FAN FLEXIBLE FLASHING AT BOTTOM CORNERS ONTO FACE OF WALL, FIRMLY
- D. ON EXTERIOR, APPLY CONTINUOUS BEAD OF SEALANT TO WALL OR BACKSIDE OF WINDOW MOUNTING FLANGE ACROSS JAMBS AND HEAD. DO NOT APPLY
- SEALANT ACROSS SILL.
- E. INSTALL WINDOW ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 F. APPLY STRIPS OF FLASHING AT JAMBS OVERLAPPING ENTIRE MOUNTING FLANGE.
 EXTEND JAMB FLASHING 1-INCH ABOVE TOP OF ROUGH OPENING AND BELOW
- BOTTOM EDGE OF SILL FLASHING.

 G. APPLY STRIP OF FLASHING AS HEAD FLASHING OVERLAPPING THE MOUNTING FLANGE. HEAD FLASHING SHOULD EXTEND BEYOND OUTSIDE EDGES OF BOTH
- JAMB FLASHINGS.

 H. POSITION WEATHER BARRIER HEAD FLAP ACROSS HEAD FLASHING. ADHERE
- FLASHING OVER THE 45-DEGREE SEAMS

 J. ON INTERIOR, INSTALL BACKER ROD IN JOINT BETWEEN FRAME OF WINDOW
- I. TAPE HEAD FLAP IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS
 AND FLASHED ROUGH FRAMING. APPLY SEALANT AROUND ENTIRE WINDOW TO
 CREATE AIR SEAL, APPLY SEALANT IN ACCORDANCE WITH SEALANT

MANUFACTURER'S INSTRUCTIONS AND ASTM C1193. PROTECTION

MATCH.

A. PROTECT INSTALLED WEATHER BARRIER FROM DAMAGE.

DIVISION 8 - DOORS, STOREFRONT AND GLASS

ALUMINUM ENTRANCE DOORS AND STOREFRONT KAWNEER COMPANY SPECIFICATIONS:

STOREFRONT SYSTEM SHALL BE TRI-FAB 450 (1 $3/4^{\circ}$ X 4 $1/2^{\circ}$) FOR $1/4^{\circ}$ GLASS AND/OR TRI-FAB 451 (2° X 4 $1/2^{\circ}$) FOR 1° GLASS FRAMING SYSTEM AS MANUFACTURED BY KAWNEER .

DOORS SHALL BE '190 NARROW STILE' DOOR MANUFACTURED
BY KAWNEER OR EQUAL, ALL ENTRANCE DOORS SHALL BE INSTALLED
WITH THE FOLLOWING HARDWARE: ONE PAIR OFFSET PIVOTS,
'NORTON 1605 BC' OR 'LCN 4040' SURFACE CLOSURES WITH
8 1/2 POUND OPERATING FORCE ON CLOSER WITH A DELAYED
ACTION FEATURE, TIM HORTONS PERSONAL LOGO PANELS, OFFSET
TUBULAR 1' DIAMETER PULL HANDLE (AS REQUIRED BY LOCAL CODE), AND
'DOR-O-MATIC 1990' CONCEALED ROD PANICS ON EXTERIOR DOORS ONLY,
INTERIOR VESTIBULE DOORS TO HAVE 'NORTON J8300' SURFACE CLOSERS
AND OFFSET TUBULAR 1' DIAMETER PULL HANDLES (AS
REQUIRED BY LOCAL CODE)-OMIT LOCK, CYLINDERS AND PREPARATION
FOR SAME, (**LOCK CYLINDER MAY BE FALCON OR AS SPECIFIED
BY REGIONAL ENGINEER) ALUMINUM THRESHOLD, 1/2' IN HEIGHT
WITH ANY BEVELED EDGES HAVING A SLOPE NO GREATER THAN A 1:2

RATIO.

ALL MATERIAL SHALL BE KAWNEER #14 CLEAR ANODIZED ALUMINUM AA-M12C22A41

ARCHITECTURAL CLASS I (,7 MILS MINUMUM), HARDWARE AND SEALANT SHALL BE A COLOR TO

ALL EXTERIOR GLASS SHALL BE 1' CLEAR INSULATED GLASS, ALL DOOR LITES AND INTERIOR GLASS SHALL BE 1/4' CLEAR SAFETY. ALL GLAZING MUST MEET SAFETY CODES AS REQUIRED AND HAVE A 5 YEAR WARRANTY AGAINST

TIM HORTONS HAS APPROVED SHOP DRAWINGS ESTABLISHED BY KAWNEER NATIONAL ACCOUNT. THESE DRAWINGS COMPLY WITH THE PRODUCTS AND HARDWARE REQUIREMENT STATED HEREIN AND ARE TO BE USED AS A GUIDE BY THE LOCAL SUPERVISING ARCHITECT, GENERAL CONTRACTOR, AND AUTHORIZED KAWNEER GLAZING CONTRACTOR TO INSURE COMPLIANCE WITH THE SPECIFICATION. COPIES OF THE APPROVED SHOP DRAWINGS AND METAL QUOTATION MAY BE OBTAINED BY CONTACTING KAWNEER AT 877-505-3757 (FAX) 800-755-4639 ATTENTION: NATIONAL ACCOUNTS.

UNITED STATES ALUMINUM SPECIFICATIONS:

STOREFRONT SYSTEM SHALL BE SERIES 450 (1 3/4" X 4 1/2")

FOR 1/4' GLASS AND/OR SERIES 451 (2' X 4 1/2') FOR 1' GLASS FRAMING SYSTEM AS MANUFACTURED BY UNITED STATES ALUMINUM. EQUAL PRODUCT WILL BE APPROVED BY ARCHITECT IF REQUEST IS SUBMITTED IN WRITING. DOORS SHALL BE '250 NARROW STILE' AS MANUFACTURED BY UNITED STATES ALUMINUM CORP. OR EQUAL, ALL ENTRANCE DOORS SHALL BE INSTALLED WITH THE FOLLOWING HARDWARE: ONE PAIR OFFSET PIVOTS, 'DORMA SERIES 651' OR 'LCN 4040' SURFACE CLOSURES WITH 8 1/2 POUND OPERATING FORCE ON CLOSER WITH A DELAYED ACTION FEATURE, TIM HORTONS PERSONALIZED LOGO PANEL #112195-01 WITH OFFSET TUBULAR 1' DIAMETER BRONZE PULL HANDLES (AS REQUIRED) BY LOCAL CODE, AND 'DOR-O-MATIC 1990' CONCEALED ROD PANICS ON EXTERIOR DOORS ONLY, INTERIOR VESTIBULE DOORS TO HAVE DORMA SERIES 650 CLOSERS AND OFFSET TUBULAR 1' DIAMETER BRONZE PULL HANDLES (AS REQUIRED BY LOCAL CODE) - OMIT LOCK, CYLINDERS AND PREPARATION FOR SAME. (**LOCK CYLINDERS MAY BE BY FALCON OR AS SPECIFIED BY REGIONAL ENGINEER) ALUMINUM THRESHOLD, 1/2" IN HEIGHT WITH ANY BEVELED EDGES HAVING A SLOPE no greater than a 1:2 ratio.

ALL MATERIALS SHALL BE UNITED STATES ALUMINUM CORPORATION *11 CHAMPAGNE, HARDWARE SHALL BE A COLOR TO MATCH.

ALL EXTERIOR GLASS SHALL BE 1' CLEAR INSULATED GLASS. ALL DOOR LIGHTS AND INTERIOR GLASS SHALL BE 1/4' CLEAR SAFETY GLASS, ALL GLAZING MUST SAFETY CODES AS REQUIRED. GLASS MUST HAVE 5 YEAR WARRANTY AGAINST SEAL FAILURE.

TIM HORTONS AS APPROVED SHOP DRAWINGS ESTABLISHED BY UNITED STATES ALUMINUM NATIONAL ACCOUNT. THESE DRAWINGS COMPLY WITH THE PRODUCTS AND HARDWARE REQUIREMENTS STATED HEREIN AND ARE TO BE USED AS A GUIDE BY THE LOCAL SUPERVISING ARCHITECT, GENERAL CONTRACTOR, AND AUTHORIZED UNITED STATES ALUMINUM CORPORATION GLAZING CONTRACTOR TO INSURE COMPLIANCE WITH THIS SPECIFICATION. COPIES OF THE APPROVED SHOP DRAWINGS AND METAL QUOTATION MAY BE OBTAINED BY CONTACTING UNITED STATES ALUMINUM CORPORATION AT 800-627-6440 OR (FAX) 214-937-9645 ATTENTION: NATIONAL ACCOUNTS.

TUBELITE SPECIFICATIONS:

ALUMINUM STOREFRONT SYSTEM SHALL BE SERIES 4500 (1 3/4" X 4 1/2") FOR 1/4' GLASS AND/OR SERIES 1400 (2' X 4 1/2') OR 1' GLASS FRAMING SYSTEM AS MANUFACTURED BY TUBELITE DIVISION OF INDAL INCORPORATED. EQUAL PRODUCT WILL BE APPROVED BY ARCHITECT IF REQUEST IS SUBMITTED IN WRITING DOORS SHALL BE NARROW STILE AS MANUFACTURED BY TUBELITE OR EQUAL. ALL ENTRANCE DOORS SHALL BE INSTALLED WITH THE FOLLOWING HARDWARE: ONE PAIR OFFSET PIVOTS, "LCN 1460" (P-1460) OR "LCN 4040" SURFACE CLOSURES WITH 8 1/2 POUND OPERATING FORCE ON CLOSER WITH A DELAYED ACTION FEATURE, TIM HORTONS PERSONALIZED LOGO PANEL #113669-01 WITH OFFSET TUBULAR 1' DIAMETER BRONZE PULL HANDLE (AS REQUIRED BY LOCAL CODE), AND 'DOR-O-MATIC 1990' CONCEALED ROD PANICS (P-645) ON EXTERIOR DOORS ONLY, INTERIOR VESTIBULE DOORS TO HAVE DORMA SERIES 651 CLOSERS AND OFFSET TUBULAR 1' DIAMETER BRONZE PULL HANDLES (AS REQUIRED BY LOCAL CODE) **OMIT LOCK, CYLINDERS AND PREPARATION FOR SAME. (**LOCK CYLINDERS MAY BE BY FALCON OR AS SPECIFIED BY REGIONAL ENGINEER) ALUMINUM THRESHOLD, 1/2' IN HEIGHT WITH ANY BEVELED EDGES HAVING A SLOPE NO GREATER THAN A 1:2 RATIO. ALL MATERIAL SHALL BE TUBELITE 4K CHAMPAGNE ANODIZED HARDWARE AND SEALANT SHALL BE A COLOR TO MATCH.

ALL EXTERIOR GLASS SHALL BE 1' CLEAR INSULATED GLASS. ALL DOOR LITES AND INTERIOR GLASS SHALL BE 1/4' CLEAR SAFETY. ALL GLAZING MUST MEET SAFETY CODES AS REQUIRED. GLASS MUST HAVE 5 YEAR WARRANTY AGAINST SEAL FAILURE.

TIM HORTONS HAS APPROVED SHOP DRAWINGS ESTABLISHED BY TUBELITE NATIONAL ACCOUNT. THESE DRAWINGS COMPLY WITH THE PRODUCTS AND HARDWARE REQUIREMENT STATED HEREIN AND ARE TO BE USED AS A GUIDE BY THE LOCAL SUPERVISING ARCHITECT, GENERAL CONTRACTOR, AND AUTHORIZED TUBELITE GLAZING CONTRACTOR TO INSURE COMPLIANCE WITH THE SPECIFICATION. COPIES OF THE APPROVED SHOP DRAWINGS AND METAL QUOTATION MAY BE OBTAINED BY CONTACTING TUBELITE AT 800-688-2227 OR (FAX) 616-832-2611 ATTENTION: NATIONAL ACCOUNTS.

VISTAWALL ARCHITECTURAL PRODUCTS SPECIFICATIONS: STORE FRONT SYSTEM SHALL BE SERIES FG-2000 (1 3/4' x 4 1/2') FOR 1/4' GLASS AND/OR SERIES 451 (2' x 4 1/2') FOR 1' GLASS FRAMING SYSTEM AS MANUFACTURED BY VISTA WALL OR EQUAL. ALL ENTRANCE DOORS SHALL BE INSTALLED WITH THE FOLLOWING HARDWARE: ONE PAIR OFFSET PIVOTS, 'NORTON 1600 SERIES' CLOSURES w/ 8 1/2 LB. OPERATING FORCE ON CLOSER w/ A DELAYED ACTION FEATURE. TIM HORTONS PERSONALIZED LOGO PANELS WITH OFFSET TUBULAR 1' DIAMETER BRONZE PULL HANDLE (AS REQUIRED BY LOCAL CODE), AND 'DOR-O-MATIC 1990' CONCEALED ROD PANICS (P-645) ON EXTERIOR DOORS ONLY, INTERIOR VESTIBULE DOORS TO HAVE DORMA SERIES 651 CLOSERS AND OFFSET TUBULAR 1' DIAMETER BRONZE PULL HANDLES (AS REQUIRED BY LOCAL CODE) **OMIT LOCK, CYLINDERS AND PREPARATION FOR SAME. (**LOCK CYLINDERS MAY BE BY FALCON OR AS SPECIFIED BY

ALL EXTERIOR GLASS SHALL BE 1' CLEAR INSULATED GLASS. ALL DOOR LITES AND INTERIOR GLASS SHALL BE 1/4' CLEAR SAFETY. ALL GLAZING MUST MEET SAFETY CODES AS REQUIRED. GLASS MUST HAVE 5 YEAR WARRANTY AGAINST SEAL FAILURE.

REGIONAL ENGINEER) ALUMINUM THRESHOLD, 1/2" IN HEIGHT WITH ANY BEVELED EDGES HAVING A SLOPE NO GREATER THAN A 1:2 RATIO.

ALL MATERIAL SHALL BE VISTA WALL #699 CHAMPAGNE ANODIZED

HARDWARE AND SEALANT SHALL BE A COLOR TO MATCH.

TIM HORTONS HAS APPROVED SHOP DRAWINGS ESTABLISHED BY VISTA WALL NATIONAL ACCOUNT. THESE DRAWINGS COMPLY WITH THE PRODUCTS AND HARDWARE REQUIREMENT STATED HEREIN AND ARE TO BE USED AS A GUIDE BY THE LOCAL SUPERVISING ARCHITECT, GENERAL CONTRACTOR, AND AUTHORIZED VISTA WALL GLAZING CONTRACTOR TO INSURE COMPLIANCE WITH THE SPECIFICATION. COPIES OF THE APPROVED SHOP DRAWINGS AND METAL QUOTATION MAY BE OBTAINED BY CONTACTING VISTA WALL AT 800-864-4567×162 OR (FAX) 972-551-6264. ATTENTION: LARRY GARBERT

STEEL SERVICE DOOR AND FRAME

STEEL DOOR FRAMES: SHALL BE 18 GAUGE STEEL WELDED VERTICAL EDGE, MECHANICAL INTERLOCK NOT ACCEPTED, AS CALLED FOR IN THE DOOR SCHEDULE ON THE DRAWINGS AND AS MANUFACTURED BY AMWELD CORPORATION SERIES 1500, OR EQUAL IF APPROVED BY ARCHITECT. STEEL HOLLOW METAL DOOR: SHALL BE 1 3/4" THICK, FLUSH TYPE, MINIMUM 18 GAUGE STEEL FACE DOOR WITH POLYSTYRENE CORE, INSULATION, ETC., AND MANUFACTURED AS FRAMES ABOVE, REFER TO DRAWINGS.

FINISH HARDWARE: DOORS SHALL BE PREPARED TO RECEIVE HEAVY-DUTY HARDWARE.

DOOR VIEWER: NATIONAL GUARD PRODUCTS, 6' X 2' VGLF-WD SECURITY VISION WINDOW. SEE HARDWARE SCHEDULE.

PREFINISHED DOORS

DRAWING NUMBER: