- 2. SET GLASS UNITS ON SETTING BLOCKS ON SETTING BLOCK CHAIRS.
- 3. ALIGN GLASS UNIT EDGES OVER CONTINUOUS STRUCTURAL SPACER TAPE AND SECURE WITH MANUFACTURER'S RECOMMENDED TEMPORARY
- 4. STRUCTURALLY SEAL GLASS UNIT TO MULLIONS WITH SPECIFIED ONE-PART STRUCTURAL SILICONE SEALANT. TOOL STRUCTURAL SILICONE FLUSH IN ALIGNMENT TO MULLION FACE AND PERPENDICULAR TO FACE OF GLASS LIGHT; REMOVE EXCESS STRUCTURAL SILICONE FROM
- 5. AFTER FULL CURE OF STRUCTURAL SILICONE SEALANT, REMOVE TEMPORARY CLEATS. ANY HOLES LEFT IN THE MULLIONS WHICH WERE CAUSED BY THE TEMPORARY CLEATS SHALL BE SEALED IMMEDIATELY.
- 6. INSERT AND SHAPE WEATHERSEAL JOINT BACKER RODS, OR GASKETS, INTO VOID BETWEEN GLASS UNITS AND AT A PROPER DEPTH TO RECEIVE SILICONE WEATHERSEAL SEALANT.
- 7. PLACE SILICONE WEATHERSEAL SEALANT INTO VOID AND TOOL FLUSH WITH ADJACENT EXTERIOR GLASS LIGHT FACES; REMOVE EXCESS SEALANT FROM GLASS AND METAL SUBSTRATES.
- B. BUTT GLAZED GLASS:
- 1. INSERT A FULL-HEIGHT GREASED DOWEL INTO VERTICAL VOID BETWEEN GLASS UNITS, AT A PROPER DEPTH TO ACT AS A FORM FOR
- 2. PLACE SEALANT INTO VOID AND TOOL FLUSH WITH ADJACENT GLASS LIGHT FACES; REMOVE EXCESS SEALANT FROM GLASS AND METAL SUBSTRATES. REMOVE DOWEL.
- 3.5 PROTECTION AND CLEANING
- A. PROTECT EXTERIOR GLASS FROM DAMAGE IMMEDIATELY AFTER INSTALLATION BY ATTACHING CROSSED STREAMERS TO FRAMING HELD
- AWAY FROM GLASS. DO NOT APPLY MARKERS TO GLASS SURFACE. REMOVE NONPERMANENT LABELS, AND CLEAN SURFACES. B. PROTECT GLASS FROM CONTACT WITH CONTAMINATING SUBSTANCES RESULTING FROM CONSTRUCTION OPERATIONS. IF, DESPITE SUCH PROTECTION, CONTAMINATING SUBSTANCES DO COME INTO CONTACT WITH GLASS, REMOVE THEM IMMEDIATELY AS RECOMMENDED BY
- C. EXAMINE GLASS SURFACES ADJACENT TO OR BELOW EXTERIOR CONCRETE AND OTHER MASONRY SURFACES AT FREQUENT INTERVALS DURING CONSTRUCTION, BUT NOT LESS THAN ONCE A MONTH, FOR BUILD-UP OF DIRT, SCUM, ALKALINE DEPOSITS, OR STAINS; REMOVE AS
- D. REMOVE AND REPLACE GLASS THAT IS BROKEN, CHIPPED, CRACKED, ABRADED, OR DAMAGED IN ANY WAY AND FROM ANY SOURCE,
- INCLUDING NATURAL CAUSES, ACCIDENTS, AND VANDALISM. WASH GLASS ON BOTH EXPOSED SURFACES IN EACH AREA OF PROJECT NOT MORE THAN FOUR DAYS BEFORE DATE SCHEDULED FOR INSPECTIONS THAT ESTABLISH DATE OF SUBSTANTIAL COMPLETION. WASH GLASS AS RECOMMENDED BY GLASS MANUFACTURER.
- 3.4 MONOLITHIC FLOAT-GLASS SCHEDULE
- A. UNCOATED CLEAR FLOAT GLASS: WHERE GLASS AS DESIGNATED BELOW IS INDICATED, PROVIDE TYPE I (TRANSPARENT GLASS, FLAT), CLASS 1 (CLEAR) GLASS LITES COMPLYING WITH THE FOLLOWING:
- 1. UNCOATED CLEAR ANNEALED FLOAT GLASS: ANNEALED OR KIND HS (HEAT STRENGTHENED), CONDITION A (UNCOATED SURFACES) WHERE HEAT STRENGTHENING IS REQUIRED TO RESIST THERMAL STRESSES INDUCED BY DIFFERENTIAL SHADING OF INDIVIDUAL GLASS LITES AND TO COMPLY WITH PERFORMANCE REQUIREMENTS.
- 2. UNCOATED CLEAR FULLY TEMPERED FLOAT GLASS: KIND FT (FULLY TEMPERED).

END OF SECTION 08 80 00

## SECTION 08 83 00 - MIRRORS

## Part 1 - General

## 1.1 SUMMARY

- A. THIS SECTION INCLUDES THE FOLLOWING:
- MIRRORED GLASS.
- B. RELATED SECTIONS:
- 1.2 QUALITY ASSURANCE

SEE DIVISION 8 SECTION "STILE AND RAIL WOOD DOORS" FOR WOOD DOORS WITH MIRRORED GLASS INSERTS.

- A. INSTALLER QUALIFICATIONS: A QUALIFIED INSTALLER WHO EMPLOYS GLASS INSTALLERS FOR THIS PROJECT WHO ARE CERTIFIED UNDER THE NATIONAL GLASS ASSOCIATION'S GLAZIER CERTIFICATION PROGRAM AS LEVEL 2 (SENIOR GLAZIERS) OR LEVEL 3 (MASTER GLAZIERS). B. GLAZING PUBLICATIONS: COMPLY WITH PUBLISHED RECOMMENDATIONS IN GANA'S "GLAZING MANUAL," UNLESS MORE STRINGENT
- C. NAAMM'S PUBLICATION: FOR SILVERED MIRRORED GLASS, COMPLY WITH RECOMMENDATIONS IN NAAMM'S "MIRRORS, HANDLE WITH
- EXTREME CARE, TIPS FOR THE PROFESSIONAL ON THE CARE AND HANDLING OF MIRRORS." D. SAFETY GLASS: CATEGORY II MATERIALS COMPLYING WITH TESTING REQUIREMENTS IN 16 CFR 1201.

## 1.3 DELIVERY, STORAGE, AND HANDLING

REQUIREMENTS ARE INDICATED.

A. FOR SILVERED MIRRORED GLASS, COMPLY WITH MIRRORED GLASS MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SHIPPING, STORING, AND HANDLING MIRRORED GLASS AS NEEDED TO PREVENT DETERIORATION OF SHIVERING, DAMAGE TO EDGES, AND ABRASION OF GLASS SURFACES AND APPLIED COATINGS. STORE INDOORS, PROTECTED FROM MOISTURE INCLUDING CONDENSATION.

1.4 WARRANTY

A. SPECIAL WARRANTY: MANUFACTURER'S STANDARD FORM IN WHICH MANUFACTURER AGREES TO REPLACE MIRRORED GLASS UNITS THAT DETERIORATE F.O.B. THE NEAREST SHIPPING POINT TO PROJECT SITE, WITHIN FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION. DETERIORATION OF SILVERED MIRRORED GLASS: DEFECTS DEVELOPED FROM NORMAL USE NOT CAUSED BY MAINTAINING AND CLEANING MIRRORED GLASS CONTRARY TO MANUFACTURER'S WRITTEN INSTRUCTIONS. DEFECTS INCLUDE DISCOLORATION, BLACK SPOTS, AND

### PART 2 - PRODUCTS

### 2.1 FLOAT GLASS

- A. ANNEALED FLOAT GLASS: ASTM C 1036, TYPE I (TRANSPARENT GLASS, FLAT).
- 1. CLEAR: CLASS 1 (CLEAR), QUALITY Q2 (MIRROR).

CLOUDING OF THE SILVER FILM.

A. THICKNESS: 6 MM.

# 2.2 MIRRORED GLASS

- A. SILVERED MIRRORED GLASS:
- 1. AVAILABLE MANUFACTURERS:
- A. AMERICAN MIRROR COMPANY, INC.
- B. CAROLINA MIRROR COMPANY.
- C. DONISI MIRROR COMPANY.
- D. GARDNER GLASS PRODUCTS.
- E. GILDED MIRRORS, INC.
- F. LENOIR MIRROR COMPANY.
- G. STROUPE MIRROR CO., INC.
- H. SUNSHINE MIRROR. VIRGINIA MIRROR CO., INC.
- J. VVP AMERICA, INC.; BINSWANGER MIRROR PRODUCTS.
- K. WALKER GLASS CO., LTD.
- 2. ANNEALED FLOAT GLASS: CLEAR.
- 3. SILVERING: SUCCESSIVE LAYERS OF CHEMICALLY DEPOSITED SILVER, ELECTRICALLY OR CHEMICALLY DEPOSITED COPPER, AND MANUFACTURER'S STANDARD ORGANIC PROTECTIVE COATING APPLIED TO SECOND GLASS SURFACE TO PRODUCE COATING SYSTEM
- COMPLYING WITH FS DD-M-411. 4. FROSTED MIRRORED GLASS: WHITE
- B. FABRICATION:
- 1. CUTOUTS: FABRICATE CUTOUTS FOR NOTCHES AND HOLES IN MIRRORED GLASS WITHOUT MARRING VISIBLE SURFACES. LOCATE AND SIZE CUTOUTS SO THEY FIT CLOSELY AROUND PENETRATIONS IN MIRRORED GLASS.
- 2. MIRRORED GLASS EDGE TREATMENT: FLAT POLISHED.
- A. SILVERED MIRROR GLASS: SEAL EDGES AFTER EDGE TREATMENT TO PREVENT CHEMICAL OR ATMOSPHERIC PENETRATION OF GLASS
- B. FACTORY FABRICATE: PERFORM EDGE TREATMENT AND SEALING IN FACTORY IMMEDIATELY AFTER CUTTING TO FINAL SIZES. C. VINYL-BACKED SAFETY MIRRORED GLASS: APPLY VINYL BACKING WITH PRESSURE-SENSITIVE ADHESIVE COATING OVER GLASS COATING AS

RECOMMENDED BY VINYL-BACKING MANUFACTURER TO PRODUCE A SURFACE FREE OF BUBBLES, BLISTERS, AND OTHER IMPERFECTIONS. USE

ADHESIVES AND VINYL BACKING COMPATIBLE WITH MIRRORED GLASS AS CERTIFIED BY ORGANIC COATING MANUFACTURER. 1. PROVIDE VINYL-BACKED MIRRORS FOR INSTALLATION IN OR ON DOORS.

# 2.3 MISCELLANEOUS MATERIALS

- A. SETTING BLOCKS: NEOPRENE, 70 TO 90 SHORE A HARDNESS.
- B. EDGE SEALER: COATING COMPATIBLE WITH GLASS COATING AND APPROVED BY MIRRORED GLASS MANUFACTURER FOR USE IN PROTECTING AGAINST SILVER DETERIORATION AT MIRRORED GLASS EDGES.
- C. MIRROR MASTIC: AN ADHESIVE SETTING COMPOUND, PRODUCED SPECIFICALLY FOR SETTING MIRRORED GLASS BY SPOT APPLICATION.
- MANUFACTURERS:
- A. PALMER PRODUCTS CORPORATION "QUIK-SET MIRROR MASTIC"
- B. SOMER AND MAC INDUSTRIES "SUPER GUM GRIP" C. ULTRABOND BY GUNTHER MIRROR MASTICS.
- D. STAINLESS STEEL TRIM: SECTIONS WITH RETURNS THAT PRODUCE GLAZING CHANNELS TO ACCOMMODATE MIRRORED GLASS THICKNESS. 1. TRIM: J-CHANNELS FORMED WITH FRONT LEG AND BACK LEG NOT LESS THAN 5/16 AND 7/8 INCH (8 AND 22 MM) IN HEIGHT,
- RESPECTIVELY A. PRODUCT: C. R. LAURENCE CO., INC.; CRL STAINLESS STEEL "J" CHANNEL, NO. SS960.
- 2. MIRROR DIVIDER: I-SHAPED SECTIONS FORMED WITH FRONT FLANGE 1/2 INCH WIDE.
- A. PRODUCT: C. R. LAURENCE CO., INC.; CRL STAINLESS STEEL MIRROR DIVIDER, NO. SS961.
- E. FASTENERS: FABRICATED OF SAME BASIC METAL AND ALLOY AS FASTENED METAL.
- ANCHORS AND INSERTS: PROVIDE DEVICES AS REQUIRED FOR MIRROR HARDWARE INSTALLATION. PROVIDE TOOTHED OR LEAD-SHIELD EXPANSION-BOLT DEVICES FOR DRILLED-IN-PLACE ANCHORS. PROVIDE GALVANIZED ANCHORS AND INSERTS FOR APPLICATIONS ON INSIDE FACE OF EXTERIOR WALLS AND WHERE INDICATED.

# PART 3 - EXECUTION

# 3.1 INSTALLATION

- A. VERIFY COMPATIBILITY WITH AND SUITABILITY OF SUBSTRATES, INCLUDING COMPATIBILITY OF MIRROR MASTIC WITH EXISTING FINISHES
- B. INSTALL MIRRORED GLASS UNITS TO COMPLY WITH WRITTEN INSTRUCTIONS OF MIRRORED GLASS MANUFACTURER AND WITH REFERENCED GANA AND NAAMM PUBLICATIONS. MOUNT MIRRORED GLASS ACCURATELY IN PLACE IN A MANNER THAT AVOIDS DISTORTING REFLECTED
- C. PROVIDE SPACE FOR AIR CIRCULATION BETWEEN BACK OF MIRRORED GLASS UNITS AND FACE OF MOUNTING SURFACE.
- D. MASTIC SPOT AND MECHANICAL FASTENED SYSTEM:
- GENERAL: FOR WALL-MOUNTED MIRRORED GLASS UNITS, INSTALL WITH BOTH MASTIC AND PERMANENT MECHANICAL MEANS OF SUPPORT AT BOTTOM AND TOP EDGES WITH BOTTOM SUPPORT DESIGNED TO WITHSTAND MIRRORED GLASS WEIGHT AND TOP SUPPORT DESIGNED TO PREVENT MIRRORED GLASS FROM COMING AWAY FROM WALL ALONG TOP EDGES
- 2. APPLY BARRIER COAT TO MIRRORED GLASS BACKING WHERE APPROVED IN WRITING BY MANUFACTURERS OF MIRRORED GLASS AND BACKING MATERIAL.
- 3. APPLY MASTIC IN SPOTS COVERING 80% OF THE BACK OF THE MIRROR TO COMPLY WITH MASTIC MANUFACTURER'S WRITTEN INSTRUCTIONS FOR COVERAGE AND TO ALLOW AIR CIRCULATION BETWEEN BACK OF MIRRORED GLASS UNITS AND FACE OF MOUNTING
- 4. AFTER MASTIC IS APPLIED, ALIGN MIRRORED GLASS UNITS AND PRESS INTO PLACE WHILE MAINTAINING A MINIMUM AIR SPACE OF 1/8 INCH (3 MM) BETWEEN BACK OF MIRRORED GLASS AND MOUNTING SURFACE. . ATTACH MIRROR HARDWARE SECURELY TO MOUNTING SURFACES WITH MECHANICAL FASTENERS INSTALLED WITH ANCHORS OR INSERTS AS
- APPLICABLE. INSTALL FASTENERS SO HEADS DO NOT IMPOSE POINT LOADS ON BACKS OF MIRRORED GLASS UNITS. 6. FOR CONTINUOUS BOTTOM SUPPORTS, PROVIDE SETTING BLOCKS 1/8 INCH (2 MM) THICK BY 4 INCHES (100 MM) LONG AT QUARTER POINTS. FOR CHANNELS OR OTHER CONTINUOUS SUPPORTS IN WHICH WATER COULD BE TRAPPED, PROVIDE, BETWEEN SETTING BLOCKS, TWO
- SLOTTED WEEPS NOT LESS THAN 1/4 INCH (3 MM) WIDE BY 3/8 INCH (4.5 MM) LONG. . UNLESS OTHERWISE NOTED, INSTALL BOTTOM AND TOP TRIM. FABRICATE TRIM IN SINGLE LENGTHS TO FIT AND COVER TOP AND

BOTTOM EDGES OF MIRRORED GLASS UNITS.

- 8. WHERE INDICATED, INSTALL TRIM ON ALL SIDES. FABRICATE TRIM IN SINGLE LENGTHS FOR EACH SIDE. MITER CORNERS.
- 9. WHERE INDICATED, INSTALL MIRROR DIVIDER. FABRICATE TRIM IN SINGLE LENGTHS. TIGHTLY BUTT DIVIDER TO ADJACENT TRIM.
- E. PROTECT MIRRORED GLASS FROM BREAKAGE AND CONTAMINATING SUBSTANCES RESULTING FROM CONSTRUCTION OPERATIONS.
- 1. DO NOT PERMIT EDGES OF SILVERED MIRRORED GLASS TO BE EXPOSED TO STANDING WATER.
- 2. MAINTAIN ENVIRONMENTAL CONDITIONS THAT WILL PREVENT SILVERED MIRRORED GLASS FROM BEING EXPOSED TO MOISTURE FROM CONDENSATION OR OTHER SOURCES FOR CONTINUOUS PERIODS OF TIME.
- END OF SECTION 08 83 00

## SECTION 08 87 00 - GLAZING FILM

## GENERAL

- A. CLEAR GLAZING FILM FOR INSIDE OF FACE OF GLASS AS INDICATED ON DRAWINGS.
- B. REFERENCES:
- 1. ASTM D1004 GRAVES TEST
- ANSI Z97.1 3. ISO 9002 QUALITY ASSURANCE IN PRODUCTION AND INSTALLATION
- C. SUBMITTALS:
- SUBMIT TWO COPIES OF MANUFACTURER'S LITERATURE, INCLUDING APPLICATION INSTRUCTIONS, MATERIAL SAFETY DATA SHEET, AND USE REQUIREMENTS SUBMIT MAINTENANCE AND CLEANING INSTRUCTION DESCRIBING PROPER CLEANING PROCEDURES AND PROPER CLEANING
- SOLUTIONS TO USE. D. QUALITY/ ASSURANCE: FABRICATOR/APPLICATOR TO HAVE EXPERIENCE, AND TRAINING IN LAMINATING FILM TO GLASS FOR 5 YEARS.+

### 1.2 PRODUCTS

- A. MANUFACTURERS: 3M (800-480-1704 OR 800-561-5115 X3814 FOR CANADA), MADICO (800-225-1926) OR EQUAL OR APPROVED BY OWNER. SEE CONSTRUCTION DOCUMENTS FOR JOB SPECIFIC, SPECIFICATIONS.
- 1. 3M "SCOTHSHIELD" OR MADICO 2MM. (FOR EXTERIOR STOREFRONT GLAZING ABOVE CANOPY AND INTERIOR MALL TRANSOM GLAZING)
- 2. MADICO ENERGY CONTROL FILM. (FOR EXTERIOR STOREFRONT GLAZING WHERE APPLICABLE)
- 3. MADICO 2MM. (FOR EXTERIOR STOREFRONT GLAZING ABOVE CANOPY AND INTERIOR WALL TRANSOM GLAZING)

INSTALLATION: PREPARE GLASS AND INSTALL GLAZING FILM AT INSIDE FACE OF GLASS PER MANUFACTURER'S INSTRUCTIONS.

END OF SECTION 08 87 00

<u>SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES</u>

# Part 1 - General

- A. THIS SECTION INCLUDES THE FOLLOWING: INTERIOR GYPSUM WALLBOARD.
- BACKING PANELS. 3. ABUSE-RESISTANT GYPSUM WALLBOARD.
- 4. NON-LOAD-BEARING STEEL FRAMING.
- 5. FIBERGLASS MAT GYPSUM SHEATHING

QUALIFIED INDEPENDENT TESTING AGENCY.

## 1.1 QUALITY ASSURANCE A. FIRE-TEST-RESPONSE CHARACTERISTICS: FOR GYPSUM BOARD ASSEMBLIES WITH FIRE-RESISTANCE RATINGS, PROVIDE MATERIALS AND

CONSTRUCTION IDENTICAL TO THOSE TESTED IN ASSEMBLY INDICATED ACCORDING TO ASTM E 119 BY AN INDEPENDENT TESTING AND INSPECTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. B. SOUND TRANSMISSION CHARACTERISTICS: FOR GYPSUM BOARD ASSEMBLIES WITH STC RATINGS, PROVIDE MATERIALS AND CONSTRUCTION

IDENTICAL TO THOSE TESTED IN ASSEMBLY INDICATED ACCORDING TO ASTM E 90 AND CLASSIFIED ACCORDING TO ASTM E 413 BY A

PART 2 - PRODUCTS

- A. IN OTHER PART 2 ARTICLES WHERE SUBPARAGRAPH TITLES BELOW INTRODUCE LISTS, THE FOLLOWING REQUIREMENTS APPLY FOR PRODUCT
- MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE MANUFACTURERS SPECIFIED. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE PRODUCTS SPECIFIED.

A. PROTECTIVE COATING:

- 2.2 STEEL FRAMING A. STEEL FRAMING, GENERAL: COMPLY WITH ASTM C 754 FOR CONDITIONS INDICATED.
- 1. STEEL SHEET COMPONENTS: METAL COMPLYING WITH ASTM C 645 REQUIREMENTS.
- INTERIOR APPLICATIONS: ASTM A 653/A 653M, G40 (Z120), HOT-DIP GALVANIZED ZINC COATING. MANUFACTURERS OF STEEL FRAMING AND FURRING:
- MARINOWARE; DIVISION OF WARE INDUSTRIES. B. DALE INDUSTRIES, INC. - DALE/INCOR.
- C. DIETRICH INDUSTRIES, INC.
- D. UNIMAST, INC.
- B. SUSPENDED CEILING FRAMING: 1. TIE WIRE: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER, 0.0625-INCH- (1.59-MM-) DIAMETER WIRE, OR DOUBLE STRAND OF
- 0.0475-INCH- (1.21-MM-) DIAMETER WIRE.
- HANGER ATTACHMENTS TO CONCRETE: A. POWER-ACTUATED FASTENERS IN CONCRETE: FASTENER SYSTEM OF TYPE SUITABLE FOR APPLICATION INDICATED, FABRICATED FROM CORROSION-RESISTANT MATERIALS, WITH CLIPS OR OTHER ACCESSORY DEVICES FOR ATTACHING HANGERS OF TYPE INDICATED, AND WITH CAPABILITY TO SUSTAIN, WITHOUT FAILURE, A LOAD EQUAL TO 10 TIMES THAT IMPOSED BY CEILING CONSTRUCTION, AS DETERMINED BY
- TESTING PER ASTM E 1190, CONDUCTED BY A QUALIFIED TESTING AND INSPECTING AGENCY. 3. WIRE HANGERS, UNLESS OTHERWISE REQUIRED: ASTM A 641/A 641M, CLASS 1 ZINC COATING, SOFT TEMPER, 0.162-INCH (4.12-MM)
- 4. ROD HANGERS, WHERE REQUIRED BY LOCAL BUILDING CODE: ASTM A 510 (ASTM A 510M), MILD CARBON STEEL. A. DIAMETER: 1/4-INCH (6.34-MM).
- B. PROTECTIVE COATING: ASTM A 153/A 153M, HOT-DIP GALVANIZED.
- 5. CARRYING CHANNELS: COLD-ROLLED, COMMERCIAL-STEEL SHEET WITH A BASE METAL THICKNESS OF 0.0538 INCH (1.37 MM), A MINIMUM 1/2-INCH- (12.7-MM-) WIDE FLANGE, AND IN DEPTH INDICATED.
- 6. FURRING CHANNELS (FURRING MEMBERS): A. HAT-SHAPED, RIGID FURRING CHANNELS: ASTM C 645, 7/8 INCH (22.2 MM) DEEP.
- MINIMUM BASE METAL THICKNESS: 0.0179 INCH (0.45 MM). C. GRID SUSPENSION SYSTEM FOR INTERIOR CEILINGS: ASTM C 645, DIRECT-HUNG SYSTEM COMPOSED OF MAIN BEAMS AND CROSS-FURRING
- MEMBERS THAT INTERLOCK. AVAILABLE PRODUCTS:
- A. ARMSTRONG WORLD INDUSTRIES, INC.; FURRING SYSTEMS/DRYWALL.
- B. CHICAGO METALLIC CORPORATION; DRYWALL FURRING 640 SYSTEM.
- C. USG CORP.; DRYWALL SUSPENSION SYSTEM (CURVED AND FLAT). D. PARTITION AND SOFFIT FRAMING:
- STEEL STUDS AND RUNNERS: ASTM C 645. MINIMUM BASE METAL THICKNESS: COMPLY WITH ASTM C 754 AND THE FOLLOWING:
- A. STUD DEPTH: INDICATED IN PARTITION TYPE DETAILS. B. STUD HEIGHT: INDICATED ON DRAWINGS.
- C. LATERAL PRESSURE: 5 POUNDS PER SQUARE FOOT.
- D. LIMIT OF MAXIMUM DEFLECTION: L/240, UNLESS INDICATED OTHERWISE.
- 2. L/360, AT WALLS TO RECEIVE SUBSEQUENT RIGID FINISHES, SUCH AS TILE OR PLASTER. 3. PROVIDE 0.0312-INCH THICK STUDS AT FIRE DOOR FRAMES. 4. PROPRIETARY DEFLECTION TRACK: STEEL SHEET TOP RUNNER MANUFACTURED TO PREVENT CRACKING OF GYPSUM BOARD APPLIED TO
- INTERIOR PARTITIONS RESULTING FROM DEFLECTION OF STRUCTURE ABOVE; IN THICKNESS INDICATED FOR STUDS AND IN WIDTH TO ACCOMMODATE DEPTH OF STUDS.
- A. AVAILABLE PRODUCTS:
- 1. DELTA STAR, INC., SUPERIOR METAL TRIM; SUPERIOR FLEX TRACK SYSTEM (SFT).
- 2. METAL-LITE, INC.; SLOTTED TRACK. 3. THE STEEL NETWORK, INC; VERTICLIP SLD SERIES OR VERTITRACK VTD SERIES. 4. PROPRIETARY FIRESTOP TRACK: TOP RUNNER MANUFACTURED TO ALLOW PARTITION HEADS TO EXPAND AND CONTRACT WITH MOVEMENT
- OF THE STRUCTURE WHILE MAINTAINING CONTINUITY OF FIRE-RESISTANCE-RATED ASSEMBLY INDICATED; IN THICKNESS NOT LESS THAN INDICATED FOR STUDS AND IN WIDTH TO ACCOMMODATE DEPTH OF STUDS.
- A. AVAILABLE PRODUCTS:
- 1) FIRE TRAK CORP.; FIRE TRAK ATTACHED TO STUDS WITH FIRE TRAK SLIP CLIP. 2) METAL-LITE, INC.; THE SYSTEM.

8. HAT-SHAPED, RIGID FURRING CHANNELS: ASTM C 645, IN DEPTH INDICATED.

- 3) THE STEEL NETWORK, INC: VERTICLIP SLD SERIES OR VERTITRACK VTD SERIES.
- 6. FLAT STRAP AND BACKING PLATE: STEEL SHEET FOR BLOCKING AND BRACING IN LENGTH AND WIDTH INDICATED. A. MINIMUM BASE METAL THICKNESS: 0.0312 INCH (0.79 MM). 7. COLD-ROLLED CHANNEL BRIDGING: 0.0538-INCH (1.37-MM) BARE STEEL THICKNESS, WITH MINIMUM 1/2-INCH- (12.7-MM-) WIDE FLANGE, AND IN
- DEPTH INDICATED. A. CLIP ANGLE: 1-1/2 BY 1-1/2 INCH (38.1 BY 38.1 MM), 0.068-INCH- (1.73-MM-) THICK, GALVANIZED STEEL.
- A. MINIMUM BASE METAL THICKNESS: 0.0179 INCH (0.45 MM). 9. FASTENERS FOR METAL FRAMING: OF TYPE, MATERIAL, SIZE, CORROSION RESISTANCE, HOLDING POWER, AND OTHER PROPERTIES REQUIRED
- TO FASTEN STEEL MEMBERS TO SUBSTRATES. 2.3 PANEL PRODUCTS
- A. MANUFACTURERS: GEORGIA PACIFIC - DESNGLASS SHEATING - EXTERIOR SHEATHING; DENSGLASS FIREGUARD SHEATHING
- NATIONAL GYPSUM COMPANY. 3. TEMPLE-INLAND FOREST PRODUCTS CORP.
- 4. USG CORPORATION, INC. 5. GEORGIA PACIFIC - DESNGLASS SHEATING - EXTERIOR SHEATHING: DENSGLASS FIREGUARD SHEATHING
- B. PANEL SIZE, GENERAL: PROVIDE IN MAXIMUM LENGTHS AND WIDTHS AVAILABLE THAT WILL MINIMIZE JOINTS IN EACH AREA AND CORRESPOND WITH SUPPORT SYSTEM INDICATED.
- C. GYPSUM WALLBOARD: ASTM C 1396.
- REGULAR TYPE: IN THICKNESS INDICATED AND WITH LONG EDGES TAPERED.
- 2. TYPE X: IN THICKNESS INDICATED AND WITH LONG EDGES TAPERED. D. FLEXIBLE GYPSUM WALLBOARD, AT CURVED SURFACES: ASTM C 1396, MANUFACTURED TO BEND TO FIT TIGHT RADII AND TO BE MORE FLEXIBLE THAN STANDARD REGULAR-TYPE PANELS OF THE SAME THICKNESS, 1/4 INCH (6.4 MM) THICK, AND WITH LONG EDGES TAPERED.
- APPLY IN DOUBLE LAYER AT CURVED ASSEMBLIES. SAG-RESISTANT GYPSUM WALLBOARD, AT ALL CEILING SURFACES: ASTM C 1396, MANUFACTURED TO HAVE MORE SAG RESISTANCE THAN
- PROPRIETARY, SPECIAL FIRE-RESISTIVE TYPE: ASTM C 1396, HAVING IMPROVED FIRE RESISTANCE OVER STANDARD TYPE X, COMPLYING WITH REQUIREMENTS OF FIRE-RESISTANCE-RATED ASSEMBLIES INDICATED, IN THICKNESS INDICATED, AND WITH LONG EDGES TAPERED. 1. G-P GYPSUM CORPORATION; TYPE 5.

2. USG CORPORATION, INC.; FIRECODE C.

G. FOIL-BACKED GYPSUM WALLBOARD, AT ALL EXTERIOR WALLS: ASTM C 1396, WITH CORE TYPE AND IN THICKNESS INDICATED, AND WITH LONG EDGES TAPERED.

REGULAR-TYPE GYPSUM BOARD, 1/2 INCH (12.7 MM) THICK, AND WITH LONG EDGES TAPERED. PROVIDE PANELS OF 12-FOOT LENGTHS.

- A. BACKING PANELS: 1. GLASS-MAT, WATER-RESISTANT BACKING BOARD: ASTM C 1178/C 1178M, WITH CORE TYPE AND IN THICKNESS INDICATED.
- A. PRODUCT: G-P GYPSUM CORP.; DENS-SHIELD TILE BACKER.
- ABUSE-RESISTANT GYPSUM WALLBOARD: ASTM C 1396, MANUFACTURED TO PRODUCE GREATER RESISTANCE TO SURFACE INDENTATION AND THROUGH-PENETRATION THAN STANDARD GYPSUM PANELS, WITH CORE TYPE AND IN THICKNESS INDICATED, AND WITH LONG EDGES TAPERED.
- PRODUCTS:

**NEW STORE** 

**S**ATHLETA

STORE DEVELOPMENT 2 FOLSOM STREET SAN FRANCISCO, CA 94105

GAP INC.

**D** 

**DERBY E** DESIGN TYPE: GENERATION: 1/8/2021 PROTOTYPE DATE: 2021 OPENING:

OVERLAND PARK, KS 66204

ARCHITECT INFO:

ARCHITECT OF RECORD IARTAH MEYER 8131 METCALF AVE

www.brrarch.com

CONSULTANT INFO:

PROFESSIONAL STAMP:

SSUE TYPE:

**REVISIONS:** 

L/PERMIT/BID:

02/19/21

NE

DRAWN BY: KDA A/E JOB NUMBER: 65011072

TITLE SHEET:

SPECIFICATIONS

SHEET NUMBER: