SECTION 07 28 00 - BUILDING ENVELOPE UNDERLAYMENT

Part 1 - General

A. SECTION INCLUDES: PROVIDE COMPLETE BUILDING ENVELOPE UNDERLAYMENT AIR AND WATER BARRIER SYSTEMS INCLUDING FOR FLASHING AND SHEET METAL, AND PENETRATION UNDERLAYMENT, WITH ACCESSORIES AS REQUIRED FOR COMPLETE WATERTIGHT INSTALLATION. 1.EXTERIOR WALL SYSTEMS UNDERLAYMENT: PROVIDE VAPOR PERMEABLE SELF-ADHERING SHEET MEMBRANE UNDERLAYMENT AND VAPOR PERMEABLE FLUID APPLIED MEMBRANE UNDERLAYMENT AT EXTERIOR WALLS, WITH ACCESSORIES AS REQUIRED FOR COMPLETE WEATHERTIGHT

2. FLASHINGS AND SHEET METAL UNDERLAYMENT: PROVIDE SELF-ADHERING SHEET MEMBRANE UNDERLAYMENT AT FLASHINGS AND SHEET METAL, WITH ACCESSORIES AS REQUIRED FOR COMPLETE WATERTIGHT INSTALLATION.

3. SELF-ADHERING SHEET MEMBRANE (SASM) FLASHING AT PENETRATIONS; PROVIDE SASM FLASHING FOR AROUND PENETRATIONS THROUGH UNDERLAYMENT, WITH ACCESSORIES AS REQUIRED FOR COMPLETE WATERTIGHT INSTALLATION. 1.2 ADMINISTRATIVE REQUIREMENTS

A. PRE-INSTALLATION MEETING: CONVENE ONE WEEK PRIOR TO COMMENCING WORK; REQUIRE ATTENDANCE OF PARTIES DIRECTLY AFFECTING UNDERLAYMENT. REVIEW PROCEDURES AND COORDINATION REQUIRED WITH RELATED WORK.

A. PRODUCT DATA: FURNISH MANUFACTURER'S LITERATURE FOR EACH TYPE OF UNDERLAYMENT.

B. SAMPLES: FURNISH SAMPLES OF EACH MATERIAL.

A. EXTENDED CORRECTION PERIOD: PROVIDE FOR CORRECTING FAILURE OF SYSTEM TO RESIST DAMAGE FROM ANTICIPATED SOURCES INCLUDING DAMAGE FROM WATER PENETRATION. REPAIR SYSTEM AND PAY FOR OR REPLACE DAMAGED MATERIALS AND SURFACES. 1.PERIOD: TWO YEARS.

PART 2 - PRODUCTS

A. SYSTEM DESCRIPTION: PROVIDE COMPLETE BUILDING ENVELOPE UNDERLAYMENT AIR AND WATER BARRIER SYSTEMS INCLUDING FOR FLASHING AND SHEET METAL. AND PENETRATION UNDERLAYMENT WITH ACCESSORIES.

B. WALL UNDERLAY: PROVIDE VAPOR PERMEABLE SELF-ADHERING SHEET MEMBRANE UNDERLAYMENT AND VAPOR PERMEABLE FLUID APPLIED AIR AND WATER BARRIER UNDERLAYMENT SYSTEM FOR COMPLETE WATERTIGHT INSTALLATION AS RECOMMENDED BY MANUFACTURER FOR SUBSTRATES AND APPLICATIONS INDICATED.

1.MANUFACTURERS: GRACE CONSTRUCTION PRODUCTS/PERM-A-BARRIER VPS SELF-ADHERING SHEET; GRACE CONSTRUCTION PRODUCTS/PERM-A-BARRIER VPO FLUID APPLIED; HENRY COMPANY/BLUESKIN SA AND SA HT AIR AND WEATHER BARRIER; HENRY COMPANY/AIR-BLOC VP.

. SHEET METAL AND FLASHING UNDERLAYMENT: SELF-ADHERING RUBBERIZED SHEET MEMBRANE WITH PRIMERS AND SEAM SEALERS AS REQUIRED FOR COMPLETE WATERTIGHT INSTALLATION; TYPE AS RECOMMENDED BY MANUFACTURER FOR SUBSTRATE AND FOR APPLICATIONS

1.MANUFACTURERS: GRACE CONSTRUCTION PRODUCTS; HENRY COMPANY.

2. PROVIDE SPECIFIC MEMBRANE TYPES AS RECOMMENDED BY SYSTEM MANUFACTURERS FOR EACH TYPE OF APPLICATION.

D. SELF-ADHERING SHEET MEMBRANE (SASM) FLASHING AT PENETRATIONS: SASM WITH PRIMERS AND SEAM SEALERS AS REQUIRED FOR COMPLETE WATERTIGHT INSTALLATION; TYPE AS RECOMMENDED BY MANUFACTURER FOR SUBSTRATE AND FOR APPLICATIONS INDICATED. 1. MANUFACTURERS: GRACE CONSTRUCTION PRODUCTS; HENRY COMPANY.

2. PROVIDE SPECIFIC MEMBRANE TYPES AS RECOMMENDED BY SYSTEM MANUFACTURERS FOR EACH TYPE OF APPLICATION. E. ACCESSORIES: PROVIDE AS RECOMMENDED BY UNDERLAYMENT MANUFACTURERS FOR SPECIFIC APPLICATIONS.

PART 3 - EXECUTION

3.1PREPARATION

A. INSTALL UNDERLAYMENT OVER SURFACES THAT ARE DRY, FREE OF RIDGES, WARPS AND VOIDS THAT COULD DAMAGE PAPER. B. COORDINATE INSTALLATION WITH INSTALLATION OF COMPONENTS AND ITEMS PROJECTING THROUGH UNDERLAYMENT. 3.2 UNDERLAYMENT INSTALLATION

A. INSTALL UNDERLAYMENT IN ACCORDANCE WITH RECOMMENDATIONS OF UNDERLAYMENT MANUFACTURER AND OF MANUFACTURERS OF PRODUCTS TO COVER UNDERLAYMENT; COMPLY WITH APPLICABLE CODE REQUIREMENTS.

1. WEATHERLAP JOINTS AS RECOMMENDED BY SYSTEM MANUFACTURER. B. WEATHERLAP ITEMS PROJECTING THROUGH UNDERLAYMENT AND SEAL WITH SEALER RECOMMENDED BY UNDERLAYMENT MANUFACTURER.

END OF SECTION 07 28 00

SECTION 07 60 00 - FLASHING AND SHEET METAL

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. METAL FLASHING AND TRIM

B. GUTTERS AND DOWNSPOUTS

C. MISCELLANEOUS SHEET METALWORK D. BREAK MEAL (VENDOR SUPPLIED) REFER TO CONSTRUCTION DOCUMENTS

A. SHEET METAL DUCTWORK FOR AIR DISTRIBUTION SYSTEMS IS SPECIFIED IN SECTION 23 31 00 - HVAC DUCTS AND CASINGS.

1.03 MEASUREMENT AND PAYMENT

A. GENERAL: FLASHING AND SHEET METALWORK WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT WILL BE PAID FOR AS PART OF THE CONTRACT LUMP SUM PRICE FOR ARCHITECTURAL WORK.

1.04 REFERENCES

- A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
- 1. ASTM B32 SPECIFICATION FOR SOLDER METAL 2. ASTM B209 SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND PLATE
- B. FEDERAL SPECIFICATION (FS):
- 1. FS TT-S-230 SEALING COMPOUND: ELASTOMERIC TYPE, SINGLE COMPONENT (FOR
- CALKING, SEALING, AND GLAZING IN BUILDINGS AND OTHER STRUCTURES) 2. FS TT-S-1543 SEALING COMPOUND: SILICONE RUBBER BASE (FOR CALKING, SEALING AND GLAZING IN BUILDINGS AND OTHER STRUCTURES)
- 3. FS UU-B-790 BUILDING PAPER, VEGETABLE FIBER (KRAFT, WATERPROOFED, WATER REPELLENT AND FIRE RESISTANT) C. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA): SMACNA ARCHITECTURAL SHEET METAL MANUAL

A. GENERAL: REFER TO SECTION 01 33 00 - SUBMITTAL PROCEDURES, AND SECTION 01 33 23 - SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES, FOR SUBMITTAL REQUIREMENTS AND PROCEDURES.

B. SHOP DRAWINGS AND PRODUCT DATA: SUBMIT DETAILED SHOP DRAWINGS OF METAL FLASHING AND SHEET METALWORK, INCLUDING GUTTERS AND DOWNSPOUTS, AND INSTALLATION DETAILS. INCLUDE MANUFACTURERS' PRODUCT DATA FOR MATERIALS AND MANUFACTURED

1.06 QUALITY ASSURANCE

A. FLASHING AND SHEET METALWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL

B. EXCEPT WHERE OTHERWISE INDICATED, COMPLY WITH MINIMUM THICKNESS OR GAGE REQUIREMENTS AS SPECIFIED IN SMACNA ARCHITECTURAL SHEET METAL MAN

PART 2 - PRODUCTS

2.01 MATERIALS

A. ALUMINUM SHEET METAL: ASTM B209, 5005 OR 3003-H14 ALUMINUM ALLOY AS APPROPRIATE, CLEAR ANODIZED OR EPOXY COATED. WHERE ALUMINUM SHEET THICKNESS IS NOT INDICATED, PROVIDE 0.0201 INCH THICKNESS

B. SOLDER: GRADE A MEETING REQUIREMENTS OF ASTM B32, COMPOSED OF 50 PERCENT PIG LEAD AND 50 PERCENT BLOCK TIN, WARRANTED PURE. FLUX SHALL BE AN APPROVED BRAND OF SOLDERING FLUX FOR THE TYPE OF METAL OR MURIATIC ACID NEUTRALIZED WITH ZINC.

C. BUILDING FELT: ASPHALTIC IMPREGNATED 15#/ 100 SF D. SEALANT: CALKING OR SEALING COMPOUND SHALL BE A SILICONE SYNTHETIC RUBBER ELASTOMERIC SEALANT WHICH CURES AT NORMAL

TEMPERATURE TO A FLEXIBLE FIRM RUBBER, TACK FREE, IN GUN GRADE CONSISTENCY. SEALANT SHALL BE SPECIALLY DESIGNED FOR ADHESION TO THE SURFACES TO WHICH IT WILL BE APPLIED, AND SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF FS TT-S-230 OR FS TT-S-1543, AS APPLICABLE.

. ISOLATING MATERIAL: ALKALI-RESISTANT BITUMINOUS PAINT OR VARNISH.

F. MEL-ROL - SINGLE COMPONENT, WATER-BASED POLYMER-MODIFIED, COLD-APPLIED, WATERPROOFING MEMBRANE

2.02 FABRICATION AND SHOP PAINTING

A. FORM AND FABRICATE SHEET METALWORK AS INDICATED AND IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND SMACNA ARCHITECTURAL SHEET METAL MANUAL. PROPERLY REINFORCE SHEET METALWORK AS REQUIRED FOR STRENGTH AND APPEARANCE.

B. GALVANIZED SHEET METAL SURFACES WHICH WILL BE CONCEALED IN THE FINISHED WORK SHALL BE CHEMICALLY TREATED OR ETCHED TO ASSURE MAXIMUM PAINT ADHERENCE AND THEN SHOP PAINTED WITH ONE COAT OF AN APPROVED GALVANIZED PRIMER AS SPECIFIED IN SECTION 05 50 00 - METAL FABRICATIONS, FINISH FIELD PAINTING IS SPECIFIED IN SECTION 09 91 23 - PAINTING.

PART 3 - EXECUTION

3.01 INSTALLATION

A. INSTALLATION STANDARDS: INSTALL FLASHING AND SHEET METALWORK AS INDICATED AND IN ACCORDANCE WITH THE APPROVED SHOP DRAWINGS AND SMACNA ARCHITECTURAL SHEET METAL MANUAL.

B. FLASHING AND METAL TRIM: PROVIDE FLASHING, COUNTERFLASHING, CAP FLASHING, METAL TRIM, AND ANY OTHER FABRICATED ITEMS AND MISCELLANEOUS SHEET METALWORK INDICATED OR REQUIRED TO PROVIDE A COMPLETE AND WATERTIGHT INSTALLATION. WORK QUALITY:

1. SHEET METALWORK SHALL BE FINISHED STRAIGHT AND TRUE, WITH MITERS AND JOINTS ACCURATELY FITTED. EXPOSED WORK SHALL BE FREE OF DENTS AND OTHER DEFECTS. CORNERS SHALL BE REINFORCED AND SEAMS MADE WATERPROOF, EDGES OF SHEET METAL SHALL

2. PROVIDE FOR EXPANSION AND CONTRACTION IN SHEET METAL ASSEMBLY BY MEANS OF EXPANSION JOINTS OR OTHER APPROPRIATE

METHODS OF SMACNA ARCHITECTURAL SHEET METAL MANUAL. PROVIDE REINFORCEMENT AS REQUIRED. 3. ISOLATE AND PROTECT DISSIMILAR METALS FROM CONTACT WITH EACH OTHER BY APPLYING SPECIFIED ISOLATION MATERIAL TO CONTACT SURFACES. PROTECT SURFACES OF SHEET METAL IN CONTACT WITH CONCRETE, TREATED WOOD, OR ALUMINUM WITH A HEAVY COATING OF BITUMINOUS PAINT.

4. PROVIDE WATERPROOF NEOPRENE WASHERS WHEREVER REQUIRED FASTENERS PENETRATE SHEET METAL, EXPOSED FASTENERS WILL NOT BE PERMITTED FOR ANY PORTION OF THIS WORK. 5. CALKING AND SEALING: CALK OR SEAL JOINTS AND LAPS OF SHEET METALWORK AS INDICATED OR REQUIRED FOR A WATERPROOF

INSTALLATION. BEADS OF SEALANT WHICH WILL BE CONCEALED IN THE FINISHED WORK SHALL BE CONTINUOUS WITH NO VOIDS OF MATERIAL, INTERFACE AND COORDINATE THE CALKING AND SEALING WORK OF THIS SECTION WITH THE WORK SPECIFIED IN SECTION 07 90 00 - JOINT PROTECTION. D. FLASHING FOR ROOF PENETRATIONS:

1. FLASHING OF ROOF PENETRATIONS SHALL BE 4 POUND LEAD, FLASHING SHALL BE ACCURATELY FORMED TO CONFORM WITH ROOFING CONTOURS AND CONFIGURATIONS AND AS REQUIRED TO ASSURE A WATERTIGHT INSTALLATION, FLASHING SHALL BE BUILT IN AS THE ROOFING WORK PROGRESSES. FLASH AND BURN LEAD AGAINST ANY PENETRATIONS THROUGH ITS SURFACE.

2. EXCEPT AS INDICATED OTHERWISE, PLUMBING AND MECHANICAL VENT FLASHING SHALL BE OF 4 POUND LEAD TUBING. FLANGES SHALL BE MINIMUM 18 INCHES SQUARE, AND TUBING SHALL BE LONG ENOUGH TO PERMIT TURNING LEAD INTO THE END OF VENT PIPE.

END OF SECTION 07 60 00

SECTION 07 81 00 - FIREPROOFING

1.0 General

1. SECTION INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:

A. SPRAYED FIRE-RESISTIVE MATERIALS. B. ACCESSORIES FOR APPLICATION OF SPRAYED FIRE-RESISTIVE MATERIALS

2. RELATED SECTIONS INCLUDE, BUT ARE NOT LIMITED TO, THOSE REFERENCED IN THIS SECTION.

3. FIRE-RESISTANCE REQUIREMENTS ARE LISTED ON COVER SHEET OF DRAWINGS.

1.2 SYSTEM DESCRIPTION

1. DESIGN REQUIREMENTS: APPLIED SPRAYED FIRE-RESISTIVE MATERIALS TO BE IN THICKNESSES REQUIRED FOR INDICATED UL DESIGN NUMBERS. 2. PERFORMANCE REQUIREMENTS: SPECIFIED IN PART 2 OF THIS SECTION FOR SPECIFIED PRODUCTS.

1.3 REFERENCES 1. PUBLICATIONS OF THE FOLLOWING ORGANIZATIONS ARE REFERENCED IN THIS SECTION:

C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

D. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM).

E. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

F. UNDERWRITERS LABORATORY (UL).

1.4 SUBMITTALS REQUIREMENTS FOR SUBMITTAL PROCEDURES ARE SPECIFIED IN SECTION 01 33 00

PRODUCT DATA: MANUFACTURER'S DESCRIPTIVE LITERATURE FOR THE FOLLOWING:

A. SPRAYED FIRE-RESISTIVE MATERIALS. B. PRIMERS AND ADHESIVES.

C. OVERCOATS AND SEALERS.

2. SHOP DRAWINGS:

A. LOCATE EACH AREA TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS IN PROJECT; INDICATE THE FOLLOWING FOR EACH AREA:

1. SURFACES TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS. 2. DETAILS OF SPRAYED FIRE-RESISTIVE MATERIALS INSTALLATION; INCLUDE THICKNESS AND DENSITY OF SPRAYED FIRE-RESISTIVE MATERIALS, AND ACCESSORIES.

3. UL DESIGN NUMBER. B. EACH AREA TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS. INDICATE LOCATIONS OF TEMPORARY ENCLOSURES FOR ISOLATION OF AREAS OF CONSTRUCTION ACTIVITIES SPECIFIED IN THIS SECTION FROM OTHER AREAS; INDICATE ENCLOSURE PERIMETER SEALING DETAILS AND VENTILATION PROVISIONS.

1. QUALITY ASSURANCE SUBMITTALS: A. TEST REPORTS: CERTIFIED REPORTS FROM INDEPENDENT TESTING LABORATORY SUPPORTING COMPLIANCE OF SPRAYED FIRE-RESISTIVE MATERIALS TO SPECIFIED REQUIREMENTS.

B. CERTIFICATES: 1. DOCUMENTATION OF QUALIFICATIONS SPECIFIED IN QUALITY ASSURANCE ARTICLE OF THIS SECTION. 2. MANUFACTURER'S CERTIFICATION THAT SPRAYED FIRE-RESISTIVE MATERIALS ARE 100 PERCENT ASBESTOS FREE.

C. MANUFACTURER'S INSTRUCTIONS:

1. PRINTED INSTALLATION INSTRUCTIONS FOR THE FOLLOWING: A. SPRAYED FIRE-RESISTIVE MATERIALS.

B. PRIMERS AND ADHESIVES. C. OVERCOATS AND SEALERS.

2. PRINTED PRODUCT SAFETY DATA FOR THE FOLLOWING:

A. PRIMERS AND ADHESIVES. B. OVERCOATS AND SEALERS.

3. PRODUCT STORAGE REQUIREMENTS FOR EACH PRODUCT SPECIFIED IN THIS SECTION.

CHECKING, DUSTING, FLAKING, SPALLING, SEPARATION, OR BLISTERING.

4. CLOSEOUT SUBMITTALS: WARRANTY DOCUMENTS, SPECIFIED IN WARRANTY ARTICLE OF THIS SECTION.

1.5 QUALITY ASSURANCE

1. GENERAL REQUIREMENTS ARE SPECIFIED IN SECTION 01400.

1.6 PROJECT CONDITIONS

1. INSTALLATION OF PRODUCTS OF THIS SECTION UNDER CONDITIONS OTHER THAN THOSE SPECIFIED IN MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS IS PROHIBITED. 2. ENVIRONMENTAL REQUIREMENTS:

A. APPLICATION OF SPRAYED FIRE-RESISTIVE MATERIALS WHEN TEMPERATURE OF SUBSTRATE MATERIAL OR SURROUNDING AIR IS BELOW 40 B. PROVIDE VENTILATION IN AREAS TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS DURING. AND 24 HOURS AFTER. APPLICATION TO CURE

1.7 SEQUENCING SEQUENCE INSTALLATION OF CLIPS, HANGERS, SUPPORTS, SLEEVES, AND OTHER ITEMS WHICH PENETRATE SPRAYED FIRE-RESISTIVE

MATERIALS PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES OF THIS SECTION. SEQUENCE INSTALLATION OF DUCTS, PIPING, EQUIPMENT, OR OTHER ITEMS WHICH WOULD INTERFERE WITH APPLICATION OF SPRAYED FIRE-RESISTIVE MATERIALS AFTER COMPLETING CONSTRUCTION ACTIVITIES OF THIS SECTION.

MATERIALS.

MANUFACTURER'S WARRANTY: MANUFACTURER'S STANDARD WARRANTY AGAINST DEFECTS IN PRODUCT MATERIALS, INCLUDING CRACKING,

2.0 PRODUCTS MANUFACTURERS

ACCEPTABLE MANUFACTURER OF SPRAYED FIRE-RESISTIVE MATERIALS IS SPECIFIED IN MATERIALS ARTICLE OF PART 2 OF THIS SECTION. 2. REQUESTS FOR SUBSTITUTION WILL BE CONSIDERED IN ACCORD WITH SECTION 01 62 00.

2.2 MATERIALS

1. SPRAYED FIRE-RESISTIVE MATERIALS:

A. ACCEPTABLE PRODUCT: CAFCO BLAZE-SHIELD II, MANUFACTURED BY ISOLATEK INTERNATIONAL.

B. CHARACTERISTICS: MEDIUM-DENSITY, FACTORY MIXED ASBESTOS FREE CEMENTITIOUS AND MINERAL MATERIALS, DRY-MIXED, CONFORMING TO THE FOLLOWING REQUIREMENTS: 1. LISTED IN ASTM E119 AND UL 263 FOR FIRE RATINGS FROM 1 TO 4 HOURS.

2. SURFACE BURNING CHARACTERISTICS WHEN TESTED IN ACCORD WITH ASTM E84 3. COMBUSTIBILITY, WHEN TESTED IN ACCORD WITH ASTM E136: NON-COMBUSTIBLE

4. DRY DENSITY, WHEN TESTED IN ACCORD WITH ASTM E605: 16.5 POUNDS PER CUBIC FOOT. 5. BOND STRENGTH, WHEN TESTED IN ACCORD WITH ANSI/ASTM E736: 399 POUNDS OF FORCE PER SQUARE FOOT, MINIMUM.

6. DEFLECTION, WHEN TESTED IN ACCORD WITH ASTME759: NO CRACKING, FLAKING, OR DELAMINATION. 7. BOND IMPACT, WHEN TESTED IN ACCORD WITH ASTME760: NO CRACKING, FLAKING, OR DELAMINATION.

8. COMPRESSIVE STRENGTH, WHEN TESTED IN ACCORD WITH ASTME761: 1700 POUNDS OF FORCE PER SQUARE FOOT, MINIMUM.

9. AIR EROSION, WHEN TESTED IN ACCORD WITH ASTME859: 0.000 GRAMS PER SQUARE FOOT, MAXIMUM. 10. CORROSION RESISTANCE, WHEN TESTED IN ACCORD WITH ASTME937: DOES NOT PROMOTE CORROSION OF STEEL. 11. SOUND ABSORPTION, WHEN TESTED IN ACCORD WITH ASTM C423: NOISE REDUCTION COEFFICIENT (NRC) OF 0.75; 1/2 INCH THICK COATING

ONTO DECK AND BEAM. 12.THERMAL CONDUCTIVITY, WHEN TESTED IN ACCORD WITH ASTM C538: R-VALUE OF 3.33. 2. WATER: CLEAN, POTABLE, FREE OF SUBSTANCES WHICH WOULD IMPAIR SPECIFIED PROPERTIES OF INSTALLED SPRAYED FIRE-RESISTIVE

2.3 ACCESSORIES

MATERIALS.

PRIMER ADHESIVE: TYPES SPECIFIED FOR PROJECT SUBSTRATES IN SPRAYED FIRE-RESISTIVE MATERIALS MANUFACTURER'S PRINTED

INSTALLATION INSTRUCTIONS. 2. Overcoat/sealers: Types specified in sprayed fire-resistive materials manufacturer's printed installation instructions.

3. METAL LATH: EXPANDED METAL LATH; 3.4 LB./SQ. YD., GALVANIZED FINISH. 4. 3.0 EXECUTION

3.1 EXAMINATION 1. VERIFICATION OF CONDITIONS:

A. CLIPS, HANGERS, SUPPORTS, SLEEVES, AND OTHER ITEMS WHICH PENETRATE SPRAYED FIRE-RESISTIVE MATERIALS ARE IN PLACE.

B. DUCTS, PIPING, EQUIPMENT, OR OTHER ITEMS WHICH WOULD INTERFERE WITH APPLICATION OF SPRAYED FIRE-RESISTIVE MATERIALS ARE NOT IN PLACE.

C. VOIDS AND CRACKS IN SUBSTRATE ARE FILLED, AND PROJECTIONS ARE REMOVED WHERE SPRAYED FIRE-RESISTIVE MATERIALS ARE SIGHT EXPOSED AS FINISH MATERIAL. D. INSTALLER'S EXAMINATION IS REQUIRED BEFORE BEGINNING INSTALLATION OF PRODUCTS OF THIS SECTION; PROCEDURES FOR CONDUCTING

INSTALLER'S EXAMINATION ARE SPECIFIED IN SECTION 01400.

CONSTRUCTION ACTIVITIES OF THIS SECTION FROM OTHER AREAS.

3.2 PREPARATION 1. PROTECTION OF ADJACENT SURFACES:

FINISH MATERIAL PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES OF THIS SECTION.

A. GENERAL REQUIREMENTS FOR PROTECTION OF ADJACENT SURFACES ARE SPECIFIED IN SECTION 01400. B. PROTECT ADJACENT SURFACES AND EQUIPMENT FROM OVERSPRAY, FALL OUT, OR DUSTING. C. ERECT AIRTIGHT TEMPORARY ENCLOSURES HAVING SELF CONTAINED, NON VENTING VENTILATION EQUIPMENT TO ISOLATE AREAS OF

2. SURFACE PREPARATION: A. FILL VOIDS AND CRACKS IN SUBSTRATES, AND REMOVE PROJECTIONS WHERE SPRAYED FIRE-RESISTIVE MATERIALS ARE SIGHT EXPOSED AS

D. SEAL PERIMETER AND OPENINGS IN TEMPORARY ENCLOSURES; SEAL OPENINGS IN DUCTWORK AND PIPES WITHIN TEMPORARY ENCLOSURES.

B. CLEAN SUBSTRATES OF DIRT, DUST, GREASE, OIL, LOOSE MATERIAL, OR OTHER MATTER WHICH MAY AFFECT BOND OF SPRAYED

C. REMOVE INCOMPATIBLE MATERIALS WHICH AFFECT BOND BY SCRAPING, BRUSHING, SCRUBBING, OR SANDBLASTING. D. INSTALL METAL LATH OVER STRUCTURAL MEMBERS IN ACCORD WITH ARCHITECT-ACCEPTED SHOP DRAWINGS.

1. APPLY MATERIALS IN ACCORD WITH ARCHITECT-ACCEPTED SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. 2. APPLY PRIMER ADHESIVE TO PREPARED SUBSTRATES. 3. SPRAY APPLY FIELD-MIXED FIRE-RESISTIVE MATERIALS MIX IN SUCCESSIVE LAYERS TO ACHIEVE THICKNESSES FOR FIRE RATINGS; PROVIDE

3.4 FIELD QUALITY CONTROL

1. TESTS, INSPECTIONS: A. TESTING AGENCY WILL PERFORM TESTS AND INSPECTIONS TO VERIFY COMPLIANCE WITH SPECIFIED REQUIREMENTS, AND, IN THE CASE OF NON COMPLYING MATERIALS, WILL RETEST REPAIRED AREAS AT CONTRACTOR'S EXPENSE.

B. TO CONCEALMENT OF SURFACES COATED WITH SPRAYED FIRE-RESISTIVE MATERIALS, TESTING AGENCY WILL RE-INSPECT INSTALLED SPRAYED FIRE-RESISTIVE MATERIALS FOR INTEGRITY OF FIRE-RESISTIVE COATING.

3.5 ADJUSTING 1. REMOVE NON-COMPLYING SPRAYED FIRE-RESISTIVE MATERIALS; APPLY NEW SPRAYED FIRE-RESISTIVE MATERIALS IN ACCORD WITH SPECIFIED

REQUIREMENTS. 2. REMOVE TEMPORARY ENCLOSURES.

1. GENERAL REQUIREMENTS FOR CLEANING INSTALLED PRODUCTS ARE SPECIFIED IN SECTION 01400.

MONOLITHIC FIRE-RESISTIVE COATING WITHOUT VOIDS, SEAMS, OR STAGING BREAKS.

2. REMOVE EXCESS MATERIALS, OVERSPRAY, DROPPINGS, AND DEBRIS. 3. REMOVE SPRAYED FIRE-RESISTIVE MATERIALS FROM MATERIALS AND SURFACES NOT SPECIFIED TO RECEIVE FIRE-RESISTIVE MATERIALS.

3.7 PROTECTION OF INSTALLED PRODUCTS

1. GENERAL REQUIREMENTS FOR PROTECTING INSTALLED PRODUCTS ARE SPECIFIED IN SECTION 01400.

2. PROTECT SPRAYED FIRE-RESISTIVE MATERIALS EXPOSED TO DAMAGE FROM SUBSEQUENT CONSTRUCTION ACTIVITIES USING TEMPORARY PROTECTIVE BARRIERS.

END OF SECTION 07 81 00

NEW STORE

ATHLETA

GAP INC. STORE DEVELOPMENT 2 FOLSOM STREET SAN FRANCISCO, CA 94105

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TITLE SHEET:

SPECIFICATIONS

SHEET NUMBER: