

SECTION 01 10 00 - SUMMARY

- 1.1 PROJECT CONSISTS OF CONSTRUCTION OF A NEW VERIZON RETAIL STORE, INCLUDING ALL FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL AND STRUCTURAL WORK. PROJECT WILL BE CONSTRUCTED UNDER ONE CONTRACT. GENERAL CONTRACTOR SHALL HAVE FULL USE OF PREMISES FOR CONSTRUCTION OPERATIONS DURING CONSTRUCTION PERIOD.
1.2 THE CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH ALL LOCAL AUTHORITIES' REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE PERFORMANCE OF ANY NOISE OR DISTURBING CONSTRUCTION TECHNIQUES OR PROCEDURES DURING HOURS PERMITTED BY THE BUILDING MANAGER. SAFETY PROCEDURES AND OPERATION OF GAS COVERED EQUIPMENT.
1.3 THE CONTRACTOR SHALL COOPERATE WITH THE LANDLORD AND TENANTS OF ADJACENT SPACES IN SCHEDULING WORK IN ORDER TO CAUSE THE LEAST INCONVENIENCE TO PERSONNEL AND PROPERTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SECURITY REQUIRED WHILE WORKING IN ADJACENT SPACES.
1.4 CODES AND MATERIALS FOR WORK, MATERIALS, AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH ALL ORDINANCES, STATE AND LOCAL BUILDING CODES. CONTRACT DOCUMENTS.
1.5 SEPARATE CONTRACTS: OWNERS REPRESENTATIVE WILL AWARD SEPARATE CONTRACTS FOR CERTAIN CONSTRUCTION AT PROJECT SITE. THESE OPERATIONS WILL BE CONDUCTED SIMULTANEOUSLY WITH WORK UNDER THIS CONTRACT. THESE CONTRACTS WILL INCLUDE BUT NOT BE LIMITED TO:
A. CASEWORKER CONTRACT: THE CONTRACTOR SHALL BE RESPONSIBLE TO FURNISH AND INSTALL THE MILLWORK PACKAGE. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH MILLWORK CONTRACTORS.
B. SECURITY GRILLE AND EQUIPMENT: A SEPARATE CONTRACT WILL BE AWARDED TO FURNISH AND INSTALL THE SECURITY GRILLE. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH SECURITY GRILLE CONTRACTOR.
C. POS EQUIPMENT AND CABLING: A SEPARATE CONTRACT WILL BE AWARDED TO FURNISH AND INSTALL THE POS EQUIPMENT. G.C. TO PROVIDE CONDUIT & POWER NECESSARY FOR THE POS EQUIPMENT. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH THE OWNER'S REPRESENTATIVE FOR THIS SYSTEM.
D. TELEPHONE EQUIPMENT: A SEPARATE CONTRACT WILL BE AWARDED TO FURNISH AND INSTALL THE TELEPHONE EQUIPMENT. G.C. TO PROVIDE CONDUIT AND POWER ONLY. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH THE OWNER'S REPRESENTATIVE FOR THIS SYSTEM.
E. SECURITY SYSTEM AND EQUIPMENT: A SEPARATE CONTRACT WILL BE AWARDED TO FURNISH AND INSTALL THE SECURITY SYSTEM EQUIPMENT. G.C. TO PROVIDE CONDUIT AND POWER NECESSARY FOR INSTALLATION OF SYSTEM. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH THE OWNER'S REPRESENTATIVE FOR THIS SYSTEM.
F. FIRE ALARM SYSTEM AND EQUIPMENT: WILL BE INCLUDED AS PART OF THE GC CONTRACT TO MOUNT, FURNISH AND INSTALL THE FIRE ALARM SYSTEM AND EQUIPMENT. G.C. TO PROVIDE CONDUIT AND POWER NECESSARY FOR INSTALLATION OF SYSTEM. THE GENERAL CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH THE OWNER'S REPRESENTATIVE FOR THIS SYSTEM.
G. FIRE PROTECTION: THE CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH THE OWNER'S REPRESENTATIVE FOR THE FIRE ALARM SYSTEM.
H. FIRE PROTECT: THE CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH THE OWNER'S REPRESENTATIVE FOR THE FIRE ALARM SYSTEM.
I. FIRE PROTECT: THE CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH THE OWNER'S REPRESENTATIVE FOR THE FIRE ALARM SYSTEM.
1.6 THE CONTRACTOR SHALL COORDINATE ALL WORK OF HIS CONTRACT WITH THE LANDLORD AS REQUIRED FOR TRASH REMOVAL.
PART 2 PRODUCTS (NOT USED)

SECTION 01 30 00 - ADMINISTRATIVE REQUIREMENTS

- A. PROCEDURES: CONTRACTOR SHALL REVIEW AND APPROVE SUBMITTALS PRIOR TO SUBMITTING TO OWNER'S REPRESENTATIVE. CONTRACTOR SHALL INFORM OWNER'S REPRESENTATIVE IN WRITING AT THE TIME OF SUBMISSION, OF ANY PROVISIONS FROM CONTRACT DOCUMENTS.
1. CONTRACTOR'S SUBMITTALS REPRESENTS THAT FIELD MEASUREMENTS, FIELD CONSTRUCTION CRITERIA, MATERIALS, CATALOG NUMBERS AND SIMILAR DATA HAVE BEEN DETERMINED AND VERIFIED BY CONTRACTOR.
2. SHOP DRAWINGS: SUBMIT TWO FRONTS. SUBMIT SHOP DRAWINGS FOR CUSTOM PRODUCTS AND PRODUCTS NOT FULLY DEFINED BY PRODUCT DATA.
B. PRODUCT DATA: SUBMIT NUMBER REQUIRED BY CONTRACTOR PLUS TWO OR OWNER'S REQUEST. INDICATE ITEM TO BE USED WHEN DATA FOR MORE THAN ONE PRODUCT OR OPTION IS INCLUDED. SUBMIT PRODUCT DATA FOR EACH STOCK MANUFACTURED ITEM.
C. MANUFACTURER'S FIELD SERVICES: SUBMIT TWO COPIES.
D. COORDINATION: COORDINATE USE OF PREMISES AND ACCESS TO SITE UNDER DIRECTION OF OWNER. COORDINATE WORK TO ACHIEVE EFFICIENT AND CONSTRUCTION SEQUENCING.
1. MAKE PROVISIONS FOR OWNER-INSTALLED ITEMS AND FOR WORK UNDER SEPARATE CONTRACTS.
2. VERIFY CHANGING CHARACTERISTICS OF INTERRELATED OPERATING EQUIPMENT ARE COMPATIBLE. COORDINATE WORK HAVING INTERDEPENDENT RESPONSIBILITIES FOR INSTALLING, CONNECTION TO, AND PLACING SUCH EQUIPMENT IN SERVICE.
3. COORDINATE SPACE REQUIREMENTS AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK, CONCEAL PIPES, DUCTS, AND WIRING INSTALLED IN FINISHED AREAS. COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISHERS.
PART 3 EXECUTION
1. REPRESENTATIVE SHALL:
a. OBSERVE FIELD CONDITIONS, INCLUDING CONDITIONS OF SURFACES, OBSERVE QUALITY OF WORKMANSHIP AND METHODS OF INSTALLATION.
b. PROVIDE RECOMMENDATIONS FOR INSTALLATION AND WORKMANSHIP.
c. START, TEST, AND ADJUST EQUIPMENT AS REQUIRED. SUBMIT WRITTEN REPORT OF OBSERVATIONS TO OWNER'S PROJECT MANAGER.
d. MOCK-UPS: CONSTRUCT FIELD SAMPLES AND MOCK-UPS ON SITE AS REQUIRED.
2. TESTING LABORATORY SERVICES: TESTING SHALL BE AN APPROVED TESTING LABORATORY AS REQUIRED BY SPECIFICATIONS AND APPLICABLE CODES.
1. REQUIRED TESTING AND RETESTING WILL BE PAID BY CONTRACTOR.
2. FURNISH MATERIALS AND SAMPLES FOR TESTS AND ADJUST TESTING LABORATORY AS REQUIRED BY SPECIFICATIONS AND APPLICABLE CODES.

SECTION 01 40 00 - QUALITY REQUIREMENTS

- A. GENERAL QUALITY CONTROL: MAINTAIN QUALITY CONTROL OVER SUPPLIERS, MANUFACTURERS, PRODUCTS, SERVICES, SITE CONDITIONS, AND WORKMANSHIP. TO PRODUCE WORK OF SUPERIOR QUALITY. MANUFACTURER'S FIELD SERVICES: WHEN SPECIFIED IN OTHER SPECIFICATION SECTIONS, MANUFACTURER OR SUPPLIER SHALL HAVE QUALIFIED PERSONNEL TO PROVIDE ON-SITE OBSERVATIONS AND RECOMMENDATIONS.
1. REPRESENTATIVE SHALL:
a. OBSERVE FIELD CONDITIONS, INCLUDING CONDITIONS OF SURFACES, OBSERVE QUALITY OF WORKMANSHIP AND METHODS OF INSTALLATION.
b. PROVIDE RECOMMENDATIONS FOR INSTALLATION AND WORKMANSHIP.
c. START, TEST, AND ADJUST EQUIPMENT AS REQUIRED. SUBMIT WRITTEN REPORT OF OBSERVATIONS TO OWNER'S PROJECT MANAGER.
d. MOCK-UPS: CONSTRUCT FIELD SAMPLES AND MOCK-UPS ON SITE AS REQUIRED.
2. TESTING LABORATORY SERVICES: TESTING SHALL BE AN APPROVED TESTING LABORATORY AS REQUIRED BY SPECIFICATIONS AND APPLICABLE CODES.
1. REQUIRED TESTING AND RETESTING WILL BE PAID BY CONTRACTOR.
2. FURNISH MATERIALS AND SAMPLES FOR TESTS AND ADJUST TESTING LABORATORY AS REQUIRED BY SPECIFICATIONS AND APPLICABLE CODES.

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

- A. GENERAL: PROVIDE TEMPORARY CONTROLS TO FACILITATE AND TEMPORARY CONTROLS AS REQUIRED TO COMPLETE PROJECT IN ACCORDANCE WITH CONTRACT DOCUMENTS, CONFORM TO REQUIREMENTS OF APPLICABLE AUTHORITIES.
1. CONTACT GOVERNING AUTHORITIES TO ESTABLISH EXTENT OF UNDERLAYMENT AND CONTROL REQUIREMENTS.
B. TEMPORARY POWER: PROVIDE POWER SERVICE AND LIGHTING REQUIRED FOR OPERATIONS. LOCATE BRANCH WIRING AND DISTRIBUTION BOXES TO ALLOW SERVICE AND LIGHTING BY MEANS OF CONSTRUCTION-TYPE POWER CORDS.
C. TEMPORARY WATER AND SANITARY SERVICES: PROVIDE AND MAINTAIN REQUIRED DRINKING WATER AND SANITARY FACILITIES WITH ENCLOSURES.
D. NOISE, DUST, AND ODOOR CONTROL: PROVIDE MATERIALS AND EQUIPMENT NECESSARY TO COMPLY WITH LOCAL REGULATIONS FOR NOISE, DUST, AND ODOOR CONTROL.
E. BARRIERS: PROVIDE AS REQUIRED TO PROTECT ADJACENT PROPERTIES FROM DAMAGE FROM OPERATIONS AND AS REQUIRED BY GOVERNING AUTHORITIES.
1. PROVIDE BARRICADES AS REQUIRED BY LOCAL GOVERNING AUTHORITIES AND/OR LANDLORD IN ACCORDANCE WITH ALL CODES, CRITERIA, AND DETAILS.

- F. CLEANING: CONTROL ACCUMULATION OF WASTE MATERIALS AND RUBBISH. AS CONTAINERS BECOME FULL, DISPOSE AT OFF-SITE. LOCATIONS ACCEPTABLE TO APPLICABLE AUTHORITIES.
G. SIGNS: NOTIFY TO APPROVAL OF OWNER'S REPRESENTATIVE. STORAGE LIMIT ON-SITE FOR EACH TYPE OF WASTE. SIGNS MUST BE APPROVED IN WRITING BY OWNER. PROVIDE ADDITIONAL WEATHER-TIGHT, SECURED, OFF-SITE STORAGE IF REQUIRED.
H. REMOVE AND CLEANING: REMOVE CONSTRUCTION FACILITIES, CLEAN AND REPAIR.
I. CONTRACT AMOUNT: BASED ON MATERIALS AND PRODUCTS LISTED IN CONTRACT DOCUMENTS, MATERIALS AND PRODUCTS BY OTHER MANUFACTURERS NOT LISTED SHALL NOT BE USED WITHOUT WRITTEN APPROVAL.
D. PRODUCTS: COMPONENTS SUPPLIED IN QUANTITY SHALL BE INTERCHANGEABLE. PROVIDE NEW MATERIALS UNLESS OTHERWISE NOTICED OR SPECIFIED.
E. INSTALLATION: INSTALL ITEMS PLUMB, LEVEL, AND IN CORRECT RELATION TO ADJACENT PRODUCTS. SECURE IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSSES, VIBRATION, AND RACKING.
PART 3 - EXECUTION
3.1 EXAMINATION
A. EXAMINE SUBSTRATES, WITH INSTALLER PRESENT, FOR CONDITIONS AFFECTING PERFORMANCE.
1. PROCEED WITH APPLICATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
3.2 PREPARATION
A. GENERAL: PREPARE AND CLEAN SUBSTRATE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. TREAT NONMOVING SUBSTRATE CRACKS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT CRACKS FROM TELEGRAPHING (REFLECTING) THROUGH FINISH.
2. FILL SUBSTRATE Voids TO PREVENT UNDERLAYMENT FROM LEAKING.
B. CONCRETE SUBSTRATES: MECHANICALLY REMOVE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, LAITANCE, GLAZE, EFFLORESCENCE, CURING COMPOUNDS, FORM-RELEASE AGENTS, DUST, OIL, GREASE, OIL, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND.
1. MOSTLY TESTING: PERFORM AN HYDROB CALIBRATION ONLY AFTER SUBSTRATES DO NOT EXCEED A MAXIMUM MOISTURE VAPOR EMISSION RATE OF 3 LB OF WATER/1000 SQ FT (3.0 G/G) AT WATER 100% RH IN 24 HOURS.
C. WOOD SUBSTRATES: MECHANICALLY FASTEN LODGE BOARDS AND PAVES TO ELIMINATE SUBSTRATE MOVEMENT AND BUCKLES. SAND TO REMOVE COATINGS THAT MIGHT IMPAIR UNDERLAYMENT BOND AND REMOVE SANDING DUST.
1. INSTALL UNDERLAYMENT REINFORCEMENT RECOMMENDED IN WRITING BY MANUFACTURER.
D. METAL SUBSTRATES: MECHANICALLY REMOVE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, RUST, FOREIGN MATTER, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND. APPLY CORROSION-RESISTANT COATING COMPATIBLE WITH UNDERLAYMENT IF RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
E. CERAMIC SUBSTRATES: FOR CERAMIC TILE, QUARRY TILE, AND TERRAZZO SUBSTRATES, REMOVE WAXES, SEALANTS, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND, AND PREPARE SURFACES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
F. ADHESION TESTS: AFTER SUBSTRATE PREPARATION, TEST SUBSTRATE FOR ADHESION WITH UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
3.3 APPLICATION
A. GENERAL: MIX AND APPLY UNDERLAYMENT COMPONENTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. CLOSE AREAS TO TRAFFIC DURING UNDERLAYMENT APPLICATION.
2. COORDINATE APPLICATION OF COMPONENTS TO PROVIDE OPTIMUM UNDERLAYMENT-TO-SUBSTRATE AND INTERLARD ADHESION.
3. AT SUBSTRATE EXPANSION ISOLATION, AND OTHER MOVING JOINTS, ALLOW JOINT OF SAME WIDTH TO CONTINUE THROUGH UNDERLAYMENT.
B. APPLY PRIMER OVER PREPARED SUBSTRATE AT MANUFACTURER'S RECOMMENDED SPREADING RATE.
C. CURE UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PREVENT CONTAMINATION DURING APPLICATION AND CURING PERIODS.
E. DO NOT INSTALL FLOOR COVERINGS OVER UNDERLAYMENT UNTIL AFTER THE CURE PERIOD RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
REMOVE AND REPLACE UNDERLAYMENT AREAS THAT EVIDENCE LACK OF BOND WITH SUBSTRATE, INCLUDING AREAS THAT EMIT A "HOLLOW" SOUND WHEN TAPPED.

SECTION 01 60 00 - PRODUCT REQUIREMENTS

- A. CONTRACT AMOUNT: BASED ON MATERIALS AND PRODUCTS LISTED IN CONTRACT DOCUMENTS, MATERIALS AND PRODUCTS BY OTHER MANUFACTURERS NOT LISTED SHALL NOT BE USED WITHOUT WRITTEN APPROVAL.
D. PRODUCTS: COMPONENTS SUPPLIED IN QUANTITY SHALL BE INTERCHANGEABLE. PROVIDE NEW MATERIALS UNLESS OTHERWISE NOTICED OR SPECIFIED.
E. INSTALLATION: INSTALL ITEMS PLUMB, LEVEL, AND IN CORRECT RELATION TO ADJACENT PRODUCTS. SECURE IN PLACE WITH POSITIVE ANCHORAGE DEVICES DESIGNED AND SIZED TO WITHSTAND STRESSSES, VIBRATION, AND RACKING.
PART 3 - EXECUTION
3.1 EXAMINATION
A. EXAMINE SUBSTRATES, WITH INSTALLER PRESENT, FOR CONDITIONS AFFECTING PERFORMANCE.
1. PROCEED WITH APPLICATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
3.2 PREPARATION
A. GENERAL: PREPARE AND CLEAN SUBSTRATE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. TREAT NONMOVING SUBSTRATE CRACKS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT CRACKS FROM TELEGRAPHING (REFLECTING) THROUGH FINISH.
2. FILL SUBSTRATE Voids TO PREVENT UNDERLAYMENT FROM LEAKING.
B. CONCRETE SUBSTRATES: MECHANICALLY REMOVE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, LAITANCE, GLAZE, EFFLORESCENCE, CURING COMPOUNDS, FORM-RELEASE AGENTS, DUST, OIL, GREASE, OIL, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND.
1. MOSTLY TESTING: PERFORM AN HYDROB CALIBRATION ONLY AFTER SUBSTRATES DO NOT EXCEED A MAXIMUM MOISTURE VAPOR EMISSION RATE OF 3 LB OF WATER/1000 SQ FT (3.0 G/G) AT WATER 100% RH IN 24 HOURS.
C. WOOD SUBSTRATES: MECHANICALLY FASTEN LODGE BOARDS AND PAVES TO ELIMINATE SUBSTRATE MOVEMENT AND BUCKLES. SAND TO REMOVE COATINGS THAT MIGHT IMPAIR UNDERLAYMENT BOND AND REMOVE SANDING DUST.
1. INSTALL UNDERLAYMENT REINFORCEMENT RECOMMENDED IN WRITING BY MANUFACTURER.
D. METAL SUBSTRATES: MECHANICALLY REMOVE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, RUST, FOREIGN MATTER, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND. APPLY CORROSION-RESISTANT COATING COMPATIBLE WITH UNDERLAYMENT IF RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
E. CERAMIC SUBSTRATES: FOR CERAMIC TILE, QUARRY TILE, AND TERRAZZO SUBSTRATES, REMOVE WAXES, SEALANTS, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND, AND PREPARE SURFACES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
F. ADHESION TESTS: AFTER SUBSTRATE PREPARATION, TEST SUBSTRATE FOR ADHESION WITH UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
3.3 APPLICATION
A. GENERAL: MIX AND APPLY UNDERLAYMENT COMPONENTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. CLOSE AREAS TO TRAFFIC DURING UNDERLAYMENT APPLICATION.
2. COORDINATE APPLICATION OF COMPONENTS TO PROVIDE OPTIMUM UNDERLAYMENT-TO-SUBSTRATE AND INTERLARD ADHESION.
3. AT SUBSTRATE EXPANSION ISOLATION, AND OTHER MOVING JOINTS, ALLOW JOINT OF SAME WIDTH TO CONTINUE THROUGH UNDERLAYMENT.
B. APPLY PRIMER OVER PREPARED SUBSTRATE AT MANUFACTURER'S RECOMMENDED SPREADING RATE.
C. CURE UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PREVENT CONTAMINATION DURING APPLICATION AND CURING PERIODS.
E. DO NOT INSTALL FLOOR COVERINGS OVER UNDERLAYMENT UNTIL AFTER THE CURE PERIOD RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
REMOVE AND REPLACE UNDERLAYMENT AREAS THAT EVIDENCE LACK OF BOND WITH SUBSTRATE, INCLUDING AREAS THAT EMIT A "HOLLOW" SOUND WHEN TAPPED.

SECTION 01 62 00 - SUBSTITUTIONS AND PRODUCT OPTION

- A. SUBSTITUTIONS AND PRODUCT OPTIONS: PROVIDE PRODUCTS INDICATED, SPECIFIED OR APPROVED. REQUESTS FOR SUBSTITUTIONS OF OTHER PRODUCTS WILL BE CONSIDERED IF SUBMITTED IN WRITING.
1. CONVEY COATINGS: PROVIDE SPECIFIED PRODUCTS AND MANUFACTURERS. SUBMIT REQUEST FOR SUBSTITUTION FOR PRODUCTS AND MANUFACTURERS NOT SPECIFICALLY NAMED. SUBSTITUTIONS INVESTIGATE PROPOSED SUBSTITUTIONS AND DETERMINE IF EQUIVALENT TO SPECIFIED PRODUCTS. SUBMITTALS SHALL INCLUDE COST OR THE BENEFITS FOR THE SUBSTITUTION. REQUESTS FOR SUBSTITUTIONS THAT ARE MORE COST BENEFIT IS JUSTIFICATION FOR REJECTION.
2. CONTRACTOR'S REPRESENTATION: SUBSTITUTION REQUESTS ARE A REPRESENTATION THAT CONTRACTOR HAS INVESTIGATED PROPOSED PRODUCTS, HAS DETERMINED THEY MEET OR EXCEEDS SPECIFIED PRODUCTS, AND WAIVES CLAIMS FOR ADDITIONAL COSTS THAT SUBSEQUENTLY BECOME APPARENT.
4. APPROVALS: OWNER'S REPRESENTATIVE AND PROJECT ARCHITECT WILL JUDGE THE ACCEPTABILITY. THE OWNER'S REPRESENTATIVE AND PROJECT ARCHITECT RESERVES THE RIGHT TO REJECT PROPOSED SUBSTITUTION BASED ON INSUFFICIENT INFORMATION. USE ONLY SUBSTITUTIONS APPROVED IN WRITING.

SECTION 01 77 00 - PROJECT CLOSEOUT

- 1.1 THIS SECTION INCLUDES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR CONTRACT CLOSE-OUT, INCLUDING, BUT NOT LIMITED TO INSPECTION PROCEDURES, PROJECT RECORD DOCUMENTS, OPERATION AND MAINTENANCE MANUALS, WARRANTIES, INSTRUCTIONS OF THE CONSTRUCTION MANAGER AND OTHER PROJECT RECORDS.
1.2 PROJECT RECORDS DOCUMENTS, WARRANTIES AND OPERATION AND MAINTENANCE MANUALS: PROVIDE IN ACCORDANCE WITH CONSTRUCTION REQUIREMENTS.
PART 2 PRODUCTS (NOT USED)
PART 3 EXECUTION
3.1 CLEANING: THE CONTRACTOR SHALL TURN OVER THE PROJECT IN A FINAL CLEANING TWO CONSECUTIVE NIGHTS BEFORE SITE OPENING. PROVIDE A FINAL CLEANING OF 7 CLEANING. SITE TO BE A SPARKLE CLEAN TURNOVER.
A. CLEANING SHALL INCLUDE, BUT NOT BE LIMITED TO:
1. FLOOR SURFACES
2. WALL SURFACES
3. CEILING SURFACES
4. WOOD AND METAL SURFACES
5. SIGNS
6. CABINETS, INCLUDING SHELVES, BASES, VALANCES, FILLERS AND END PANELS
7. AND PRESENTATION ITEMS, PROPS AND TRADE FIXTURES
8. NON-SALES AREA SHELVING, STORAGE, PLATFORMS, ETC.
9. LIGHT FIXTURES INCLUDING GAN, TRIM, TRACKS AND TRACK HEADS
10. MECHANICAL SYSTEMS AND MECHANICAL DUCTWORK
CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ALL AREAS OUTSIDE OF THE LEASE SPACE THAT HAVE BEEN USED IN CONNECTION WITH HIS WORK. COMPLY WITH REQUIREMENTS OF THE LANDLORD.
C. THE G.C. SHALL ENSURE THE FACILITY IS RE-CLEANED TO THE APPROVAL OF THE STORE PERSONNEL) THE EVENING BEFORE THE OPENING.
D. THE G.C. SHALL PROVIDE, BY AN OWNER'S APPROVED SECURITY COMPANY DURING THE FIXTURING, CLEANING AND PROJECT CLOSE-OUT PROCESS.

SECTION 03 54 13 - HYDRAULIC CEMENT UNDERLAYMENT

- 1.1 RELATED DOCUMENTS
A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
1.2 SUMMARY
A. SECTION INCLUDES HYDRAULIC-CEMENT-BASED POLYMER-MODIFIED SELF-LEVELING UNDERLAYMENT FOR APPLICATION BELOW INTERIOR FLOOR COVERINGS.
1.3 ALLOWANCES
A. FURNISH AND INSTALL HYDRAULIC-CEMENT-BASED UNDERLAYMENT AS PART OF UNDERLAYMENT ALLOWANCE.
1.4 ACTION SUBMITTALS
A. PRODUCT DATA FOR EACH TYPE OF PRODUCT LISTED.
B. SHOP DRAWINGS INCLUDING:
1. LOCATIONS AND AVERAGE THICKNESS OF UNDERLAYMENT.
2. SURVEY OF SUBSTRATE CONDITIONS.
1.5 INFORMATIONAL SUBMITTALS
A. QUALIFICATION DATA FOR QUALIFIED INSTALLER.
B. PRODUCT CERTIFICATES, SIGNATURES OF MANUFACTURERS AND PRODUCTS Warranties, COMPATIBLE.
1.6 QUALITY ASSURANCE
A. QUALIFICATIONS: INSTALL WHO IS APPROVED BY MANUFACTURER FOR APPLICATION OF UNDERLAYMENT PRODUCTS.
B. TESTING: THIS PROJECT.
C. RECORD-KEEPING: MANUFACTURERS OF UNDERLAYMENT AND FLOOR COVERINGS SYSTEMS CERTIFY IN WRITING THAT PRODUCTS ARE COMPATIBLE.
D. DELIVERY, STORAGE, AND HANDLING
1. MATERIALS TO BE DELIVERED TO PROJECT WITH MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT DETERIORATION FROM MOISTURE OR OTHER ENVIRONMENTAL EFFECTS.
1.8 TEST CONDITIONS
ENVIRONMENTAL LIMITATIONS: COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SUBSTRATE PREPARATION, INCLUDING AMBIENT TEMPERATURE AND HUMIDITY, AND OTHER CONDITIONS AFFECTING UNDERLAYMENT PERFORMANCE.
1. PLACE HYDRAULIC-CEMENT-BASED UNDERLAYMENTS ONLY WHEN AMBIENT TEMPERATURE AT TEMPERATURE OF SUBSTRATES ARE BETWEEN 65 AND 80 DEG F (10 AND 27 DEG C).

SECTION 03 54 13 - HYDRAULIC CEMENT UNDERLAYMENT

- 1.10 COORDINATION
A. COORDINATE APPLICATION OF UNDERLAYMENT WITH REQUIREMENTS OF FLOOR COVERING PRODUCTS AND ADHESIVES, TO ENSURE COMPATIBILITY OF PRODUCTS.
PART 2 PRODUCTS
2.1 HYDRAULIC-CEMENT-BASED UNDERLAYMENTS
A. UNDERLAYMENT: HYDRAULIC-CEMENT-BASED, POLYMER-MODIFIED, SELF-LEVELING PRODUCT THAT CAN BE APPLIED IN MINIMUM UNIFORM THICKNESS OF 1/4 INCH (6 MM) AND THAT CAN BE FEATHERED AT EDGES TO MATCH ADJACENT FLOOR ELEVATIONS.
1. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE PRODUCTS THAT MAY BE INCORPORATED INTO THE BIDDING INCLUDE, BUT ARE NOT LIMITED TO:
a. MAPEI CORPORATION, ULTRAFILL 1 PLUS.
b. APPROVED EQUAL.
2. CEMENT BINDER: ASTM C 150, PORTLAND CEMENT AS DEFINED BY ASTM C 119.
3. FINISH STRENGTH: NOT LESS THAN 4000 PSI (27.6 MPa) AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C 1098/1094.
B. AGGREGATE: WELL-GRADED, WASHED GRAVEL, 1/8 TO 1/4 INCH (3 TO 6 MM); OR COARSE SAND AS RECOMMENDED BY UNDERLAYMENT MANUFACTURER.

- 1. PROVIDE AGGREGATE WHEN RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER FOR UNDERLAYMENT THICKNESS REQUIRED.
2. WATER: POTABLE AND AT A TEMPERATURE OF NOT MORE THAN 60 DEG F (15 DEG C).
C. REINFORCEMENT: FOR UNDERLAYMENT APPLIED TO WOOD SUBSTRATES, PROVIDE GALVANIZED METAL LATH OR OTHER CORROSION-RESISTANT REINFORCEMENT RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
D. PRIMER: PRODUCT OF UNDERLAYMENT MANUFACTURER. RECOMMENDED IN WRITING FOR SUBSTRATE, CONDITIONS, AND APPLICATION INDICATED.
1. PRIMER SHALL HAVE A VOC CONTENT OF 200 G/L OR LESS.
WHEN CALCULATED ACCORDING TO 40 CFR 59, SUPPORT D.
CORROSION-RESISTANT REINFORCEMENT RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER FOR METAL SUBSTRATES.
1. COATING SHALL HAVE A VOC CONTENT OF 250 G/L OR LESS.
WHEN CALCULATED ACCORDING TO 40 CFR 59, SUPPORT D.

PART 3 - EXECUTION

- 3.1 EXAMINATION
A. EXAMINE SUBSTRATES, WITH INSTALLER PRESENT, FOR CONDITIONS AFFECTING PERFORMANCE.
1. PROCEED WITH APPLICATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
3.2 PREPARATION
A. GENERAL: PREPARE AND CLEAN SUBSTRATE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. TREAT NONMOVING SUBSTRATE CRACKS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT CRACKS FROM TELEGRAPHING (REFLECTING) THROUGH FINISH.
2. FILL SUBSTRATE Voids TO PREVENT UNDERLAYMENT FROM LEAKING.
B. CONCRETE SUBSTRATES: MECHANICALLY REMOVE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, LAITANCE, GLAZE, EFFLORESCENCE, CURING COMPOUNDS, FORM-RELEASE AGENTS, DUST, OIL, GREASE, OIL, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND.
1. MOSTLY TESTING: PERFORM AN HYDROB CALIBRATION ONLY AFTER SUBSTRATES DO NOT EXCEED A MAXIMUM MOISTURE VAPOR EMISSION RATE OF 3 LB OF WATER/1000 SQ FT (3.0 G/G) AT WATER 100% RH IN 24 HOURS.
C. WOOD SUBSTRATES: MECHANICALLY FASTEN LODGE BOARDS AND PAVES TO ELIMINATE SUBSTRATE MOVEMENT AND BUCKLES. SAND TO REMOVE COATINGS THAT MIGHT IMPAIR UNDERLAYMENT BOND AND REMOVE SANDING DUST.
1. INSTALL UNDERLAYMENT REINFORCEMENT RECOMMENDED IN WRITING BY MANUFACTURER.
D. METAL SUBSTRATES: MECHANICALLY REMOVE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, RUST, FOREIGN MATTER, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND. APPLY CORROSION-RESISTANT COATING COMPATIBLE WITH UNDERLAYMENT IF RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
E. CERAMIC SUBSTRATES: FOR CERAMIC TILE, QUARRY TILE, AND TERRAZZO SUBSTRATES, REMOVE WAXES, SEALANTS, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND, AND PREPARE SURFACES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
F. ADHESION TESTS: AFTER SUBSTRATE PREPARATION, TEST SUBSTRATE FOR ADHESION WITH UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
3.3 APPLICATION
A. GENERAL: MIX AND APPLY UNDERLAYMENT COMPONENTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. CLOSE AREAS TO TRAFFIC DURING UNDERLAYMENT APPLICATION.
2. COORDINATE APPLICATION OF COMPONENTS TO PROVIDE OPTIMUM UNDERLAYMENT-TO-SUBSTRATE AND INTERLARD ADHESION.
3. AT SUBSTRATE EXPANSION ISOLATION, AND OTHER MOVING JOINTS, ALLOW JOINT OF SAME WIDTH TO CONTINUE THROUGH UNDERLAYMENT.
B. APPLY PRIMER OVER PREPARED SUBSTRATE AT MANUFACTURER'S RECOMMENDED SPREADING RATE.
C. CURE UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PREVENT CONTAMINATION DURING APPLICATION AND CURING PERIODS.
E. DO NOT INSTALL FLOOR COVERINGS OVER UNDERLAYMENT UNTIL AFTER THE CURE PERIOD RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
REMOVE AND REPLACE UNDERLAYMENT AREAS THAT EVIDENCE LACK OF BOND WITH SUBSTRATE, INCLUDING AREAS THAT EMIT A "HOLLOW" SOUND WHEN TAPPED.

PART 3 - EXECUTION

- 3.1 EXAMINATION
A. EXAMINE SUBSTRATES, WITH INSTALLER PRESENT, FOR CONDITIONS AFFECTING PERFORMANCE.
1. PROCEED WITH APPLICATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
3.2 PREPARATION
A. GENERAL: PREPARE AND CLEAN SUBSTRATE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. TREAT NONMOVING SUBSTRATE CRACKS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS TO PREVENT CRACKS FROM TELEGRAPHING (REFLECTING) THROUGH FINISH.
2. FILL SUBSTRATE Voids TO PREVENT UNDERLAYMENT FROM LEAKING.
B. CONCRETE SUBSTRATES: MECHANICALLY REMOVE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, LAITANCE, GLAZE, EFFLORESCENCE, CURING COMPOUNDS, FORM-RELEASE AGENTS, DUST, OIL, GREASE, OIL, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND.
1. MOSTLY TESTING: PERFORM AN HYDROB CALIBRATION ONLY AFTER SUBSTRATES DO NOT EXCEED A MAXIMUM MOISTURE VAPOR EMISSION RATE OF 3 LB OF WATER/1000 SQ FT (3.0 G/G) AT WATER 100% RH IN 24 HOURS.
C. WOOD SUBSTRATES: MECHANICALLY FASTEN LODGE BOARDS AND PAVES TO ELIMINATE SUBSTRATE MOVEMENT AND BUCKLES. SAND TO REMOVE COATINGS THAT MIGHT IMPAIR UNDERLAYMENT BOND AND REMOVE SANDING DUST.
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E. CERAMIC SUBSTRATES: FOR CERAMIC TILE, QUARRY TILE, AND TERRAZZO SUBSTRATES, REMOVE WAXES, SEALANTS, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND, AND PREPARE SURFACES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
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A. GENERAL: MIX AND APPLY UNDERLAYMENT COMPONENTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. CLOSE AREAS TO TRAFFIC DURING UNDERLAYMENT APPLICATION.
2. COORDINATE APPLICATION OF COMPONENTS TO PROVIDE OPTIMUM UNDERLAYMENT-TO-SUBSTRATE AND INTERLARD ADHESION.
3. AT SUBSTRATE EXPANSION ISOLATION, AND OTHER MOVING JOINTS, ALLOW JOINT OF SAME WIDTH TO CONTINUE THROUGH UNDERLAYMENT.
B. APPLY PRIMER OVER PREPARED SUBSTRATE AT MANUFACTURER'S RECOMMENDED SPREADING RATE.
C. CURE UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PREVENT CONTAMINATION DURING APPLICATION AND CURING PERIODS.
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PART 3 - EXECUTION

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1. INSTALL UNDERLAYMENT REINFORCEMENT RECOMMENDED IN WRITING BY MANUFACTURER.
D. METAL SUBSTRATES: MECHANICALLY REMOVE, ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, RUST, FOREIGN MATTER, AND OTHER CONTAMINANTS THAT MIGHT IMPAIR UNDERLAYMENT BOND. APPLY CORROSION-RESISTANT COATING COMPATIBLE WITH UNDERLAYMENT IF RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
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F. ADHESION TESTS: AFTER SUBSTRATE PREPARATION, TEST SUBSTRATE FOR ADHESION WITH UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
3.3 APPLICATION
A. GENERAL: MIX AND APPLY UNDERLAYMENT COMPONENTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.
1. CLOSE AREAS TO TRAFFIC DURING UNDERLAYMENT APPLICATION.
2. COORDINATE APPLICATION OF COMPONENTS TO PROVIDE OPTIMUM UNDERLAYMENT-TO-SUBSTRATE AND INTERLARD ADHESION.
3. AT SUBSTRATE EXPANSION ISOLATION, AND OTHER MOVING JOINTS, ALLOW JOINT OF SAME WIDTH TO CONTINUE THROUGH UNDERLAYMENT.
B. APPLY PRIMER OVER PREPARED SUBSTRATE AT MANUFACTURER'S RECOMMENDED SPREADING RATE.
C. CURE UNDERLAYMENT ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PREVENT CONTAMINATION DURING APPLICATION AND CURING PERIODS.
E. DO NOT INSTALL FLOOR COVERINGS OVER UNDERLAYMENT UNTIL AFTER THE CURE PERIOD RECOMMENDED IN WRITING BY UNDERLAYMENT MANUFACTURER.
REMOVE AND REPLACE UNDERLAYMENT AREAS THAT EVIDENCE LACK OF BOND WITH SUBSTRATE, INCLUDING AREAS THAT EMIT A "HOLLOW" SOUND WHEN TAPPED.

SECTION 05 40 00 COLD-FORMED METAL FRAMING

- 1.1 RELATED DOCUMENTS
A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
SUMMARY
SECTION INCLUDES:
1. SOFFIT FRAMING.
2. RELATED FASTENINGS.
B. RELATED FASTENINGS:
1. FASTENERS: PROVIDE FASTENERS FOR MASONRY BRICK-FORMING AND CONNECTIONS.
2. INTERIOR NON-LOAD-BEARING, METAL-STUD FRAMING AND CEILING-SUSPENSION ASSEMBLIES.
1.3 ACTION SUBMITTALS
A. PRODUCT DATA: FOR EACH TYPE OF COLD-FORMED STEEL FRAMING PRODUCT AND ACCESSORY.
B. SHOP DRAWINGS:
1. INCLUDE LAYOUT, SPACING, SIZES, THICKNESS, AND TYPES OF COLD-FORMED STEEL FRAMING; FABRICATING; FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS.
2. INDICATE REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.
1.4 INFORMATIONAL SUBMITTALS
A. WELDING CERTIFICATES.
1.5 QUALITY ASSURANCE
A. WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO THE FOLLOWING:
1. AWS D1.1: 1.3M "STRUCTURAL WELDING CODE - STEEL"
2. AWS D1.3/D1.3M "STRUCTURAL WELDING CODE - SHEET METAL"
1.6 DELIVERY, STORAGE, AND HANDLING
A. PROTECT COLD-FORMED STEEL FRAMING FROM CORROSION, MOISTURE STAINING, DEFORMATION, AND OTHER DAMAGE DURING DELIVERY, STORAGE, AND HANDLING.
PART 2 PRODUCTS
2.1 PERFORMANCE REQUIREMENTS
A. QUALIFICATIONS: ENGAGE A QUALIFIED PROFESSIONAL ENGINEER, AS DEFINED IN SECTION 01 40 00 "QUALITY REQUIREMENTS," TO DESIGN COLD-FORMED STEEL FRAMING.
B. FABRICATE COLD-FORMED STEEL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.
1. DESIGN LOADS: AS INDICATED ON STRUCTURAL DRAWINGS.
2. DESIGN FRAMING SYSTEMS TO PROVIDE MOVEMENT OF FRAMING MEMBERS LOCATED OUTSIDE THE INSULATE GENERAL PROTECTIVE DAMAGE FROM IMPACT.
3. SHEATHING FAILURE: CONNECTION FAILURE, INCLUDING SHEATHING FASTENERS AND JOINTS, OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO A MAXIMUM AMBIENT TEMPERATURE OF 120 DEG F (50 DEG C).
4. DEFLECT: FRAMING SYSTEMS TO MAINTAIN CLEARANCE AT OPENING TO ALLOW FOR CONSTRUCTION OF DECKINGS AND TO ALLOW FOR THE INSTALLATION OF MECHANICAL AND ELECTRICAL BUILDING SYSTEMS AS FOLLOWS:
1. UPWARD AND DOWNWARD MOVEMENT OF 1/2 INCH (13 MM) MINIMUM.
2. BRACING: BRACING AND BRACING BELOW FRAMING MATERIALS TO BE USED FOR BRICK-VEHICLE BACKUP FRAMING SHALL BE DESIGNED TO MEET THE FOLLOWING:
1. WALLS: AISI B211.
2. HEADS: AISI S212.
3. BRACING: AISI B213.
D. SPECIFICATIONS AND STANDARDS: UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED, COMPLY WITH AISI 900 AND AISI 915.
2.2 COLD-FORMED STEEL FRAMING, GENERAL
STEEL SHEET: ASTM A 1002/A 1003M, STRUCTURAL GRADE, TYPE H, METALLIC COATED, OF GRADE AND COATING WEIGHT AS FOLLOWS:
1. MINIMUM BASIS WEIGHT: 0.02428 INCH (1.09 MM)
2. FLANGE WIDTH: 1-5/8 INCHES (41 MM) MINIMUM.
2.3 SOFFIT FRAMING
A. SOFFIT FRAME: MANUFACTURER'S STANDARD C-H SHAPED STEEL SECTIONS, OF WEB DEPTHS INDICATED, WITH TYPED FINISHES, AND AS FOLLOWS:
1. MINIMUM BASIS WEIGHT THICKNESS: 0.02428 INCH (1.09 MM)
2. FLANGE WIDTH: 1-5/8 INCHES (41 MM) MINIMUM.
2.4 FRAMING ACCESSORIES
A. FABRICATE FRAMING ACCESSORIES FROM STEEL SHEET, ASTM A 1002/A 1003M, STRUCTURAL GRADE, TYPE H, METALLIC COATED, OF SAME GRADE AND COATING WEIGHT USED FOR FRAMING MEMBERS.
B. FABRICATE FRAMING ACCESSORIES FROM CONCRETE, BRICKS, AND CONFIGURATION UNLESS OTHERWISE INDICATED, AS FOLLOWS:
1. SUPPLEMENTARY FRAMING
2. BRACING, BRIDGING, AND SOLID BLOCKING.
3. END CLIPS
4. GUSSET PLATES
5. BRACING BRIDGING AND KNEE BRACES.
2.5 ANCHORS, CLIPS, AND FASTENERS
A. STEEL SHAPES AND CLIPS: ASTM A 36/A 36M, ZINC COATED BY HOT-DIP PROCESS ACCORDING TO ASTM A 1234, 1236.
B. MECHANICAL FASTENERS: PROVIDE CORROSION-RESISTANT, SELF-DRILLING, SELF-TAPPING, STEEL DRILL SCREWS.
1. HEAD TYPE: LOW-PROFILE HEAD BENEATH SHEATHING.
2. MANUFACTURER'S STANDARD SPECIFICATIONS.
C. WELDING ELECTRODES: COMPLY WITH AWS STANDARDS.
2.6 MISCELLANEOUS MATERIALS
A. GALVANIZING REPAIR PAINT: ASTM A 780
B. SHIMS: LOAD BEARING, HIGH-DENSITY MULTI-MONOMER PLASTIC, AND NON-LEACHING; OR COLD-FORMED STEEL OF SAME GRADE AND COATING AS FRAMING MEMBERS SUPPORT MANIFOLD.
C. SEALER GASKETS: CLOSED-CELL NEOPRENE FOAM, 1/4 INCH (6.4 MM) THICK, SELECTED FROM MANUFACTURER'S STANDARD WIDTHS TO MATCH WIDTH OF BOTTOM TRACK OR RIM TRACK MEMBERS.
2.7 FABRICATION
A. FABRICATE COLD-FORMED STEEL FRAMING AND ACCESSORIES PLUMB, SQUARE, AND TRUE TO LINE, AND WITH CORNER AND END CONNECTIONS FASTENED, ACCORDING TO REFERENCED AISI 915 SPECIFICATIONS AND STANDARDS, MANUFACTURER'S WRITTEN INSTRUCTIONS, AND REQUIREMENTS IN THIS SECTION.
1. FABRICATE FRAMING ASSEMBLIES USING JOIG OR TEMPLATES.
2. CUT FRAMING MEMBERS BY SAWING OR SHEARING; DO NOT TORCH CUT.
3. FASTEN COLD-FORMED STEEL FRAMING MEMBERS BY WELDING, SCREW FASTENING, CLINCH FASTENING, PNEUMATIC PIN FASTENING, OR KIVETING AS STANDARD WITH FABRICATOR.
OTHER TYPE OF FRAMING MEMBERS IS NOT PERMITTED.
a. COMPLY WITH AWS D1.3/D1.3M REQUIREMENTS AND PROCEDURES FOR WELDING, APPEARANCE AND QUALITY OF WELDS, AND METHODS USED IN CORRECTING WELDING WORK.
b. LOCATE MECHANICAL FASTENERS AND INSTALL ACCORDING TO SHOP DRAWINGS, WITH SCREEN PENETRATING JOINED MEMBERS BY NO FEWER THAN THREE EXPOSED SCREW HEADS.
4. FASTEN OTHER MATERIALS TO COLD-FORMED STEEL FRAMING BY WELDING, BOLTING, PNEUMATIC PIN FASTENING, OR SCREW FASTENING, ACCORDING TO SHOP DRAWINGS.
B. REINFORCE, STIFFEN, AND BRACE FRAMING MEMBERS TO WITHSTAND HANDLING, DELIVERY, AND ERECTION STRESSSES. LIFT FABRICATED ASSEMBLIES TO PREVENT DAMAGE OR PERMANENT DEFORMATION.
C. FABRICATION TOLERANCES: FABRICATE ASSEMBLIES LEVEL, PLUMB, AND TRUE TO LINE TO A MAXIMUM ALLOWABLE TOLERANCE VARIATION OF 1/8 INCH TO FEET (3.05 MM) AND AS FOLLOWS:
1. CUT, DRILL, AND PUNCH METALS CLEANLY AND ACCURATELY. REMOVE BURRS AND DEBRIS FROM ALL SURFACES.
2. FABRICATE FRAMING MEMBERS WITHIN TOLERANCES NO MORE THAN PLUS OR MINUS 1/8 INCH (3 MM) FROM PLAN LOCATION. CUMULATIVE ERROR SHALL NOT EXCEED MINIMUM FASTENING REQUIREMENTS OF SHEATHING OR OTHER FINISHING MATERIALS.
2. SQUARENESS: FABRICATE EACH COLD-FORMED STEEL FRAMING ASSEMBLY TO A MAXIMUM OUT-OF-SQUARE TOLERANCE OF 1/8 INCH (3 MM).
PART 3 EXECUTION
3.1 EXAMINATION
A. EXAMINE SUPPORTING SUBSTRATES AND ABUTTING STRUCTURAL FRAMING FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TO WITHSTAND DESIGN LOADS AND OTHER CONDITIONS AFFECTING PERFORMANCE OF THE WORK.
B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
3.2 PREPARATION
A. BEFORE SPRAYED FIRE-RESISTIVE MATERIALS ARE APPLIED, ATTACH CONTINUOUS ANGLES, SUPPLEMENTARY FRAMING, OR TRACKS TO STRUCTURAL MEMBERS INDICATED TO RECEIVE SPRAYED FIRE-RESISTIVE MATERIALS.
B. AFTER APPLYING SPRAYED FIRE-RESISTIVE MATERIALS, REMOVE ONLY AS MUCH OF THESE MATERIALS AS NECESSARY TO COMPLETE INSTALLATION OF COLD-FORMED FRAMING WITHOUT REDUCING THICKNESS OF FIRE-RESISTIVE MATERIALS BELOW THAT ARE REQUIRED TO OBTAIN FIRE-RESISTANCE RATING INDICATED. PROTECT REMAINING FIRE-RESISTIVE MATERIALS FROM DAMAGE.
C. INSTALL SEALER GASKETS AT THE UNDERSIDE OF WALL BOTTOM TRACK OR BR REACT TO THE TOP OF FOUNDATION WALL OR SLAB AT STUD OR JOIST LOCATION.

SECTION 05 40 00 COLD-FORMED METAL FRAMING

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