**SECTION 09 21 16 – GYPSUM BOARD ASSEMBLIES**

**PART 1 – GENERAL**

* 1. RELATED SECTIONS

.1 Section 01 33 00 – Submittal Procedures

.2 Section 01 74 21 – Construction/Demolition Waste Management and Disposal

* + 1. REFERENCES

.1 Aluminum Association:

.1 Designation for Aluminum Finishes

.2 American Society for Testing and Materials International (ASTM):

.1 ASTM C475/C475M, Specification for Joint Compound and Joint Tape for Finishing Gypsum Board

.2 ASTM C514, Specification for Nails for the Application of Gypsum Board

.3 ASTM C557, Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing

.4 ASTM C645 Standard Specification for Nonstructural Framing Members

.5 ASTM C840, Specification for Application and Finishing of Gypsum Board

.6 ASTM C954, Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs From 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness

.7 ASTM C1002, Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs

.8 ASTM C1047, Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base

.9 ASTM C1177/C1177M, Specification for Glass Mat Gypsum Substrate for Use as Sheathing

.10 ASTM C1178/C1178M, Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel

.11 ASTM C1280, Specification for Application of Gypsum Sheathing Board

.12 ASTM C1396/C1396M, Standard Specification for Gypsum Board

.13 ASTM C1629/C1629M, Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products & Fiber-Reinforced Cement Panels

.14 ASTM C1658/C1658M, Standard Specification for Glass Mat Gypsum Panels

.15 ASTM D3273, Standard test Method for Resistance to Growth of Mold on the Surface on Interior Coatings in an Environmental Chamber

.16 ASTM C1766 Standard Specification for Factory-Laminated Gypsum Panel Products

.3 Canada Green Building Council (CaGBC):

.1 LEED Canada-NC LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package for New Construction and Major Renovations (including Addendum)

.2 LEED Canada-CI LEED (Leadership in Energy and Environmental Design) Green Building Rating System Reference Guide for Commercial Interiors.

.4 Canadian General Standards Board (CGSB):

.1 CAN/CGSB-51.34- Vapour Barrier, Polyethylene Sheet for Use in Building Construction

.2 CAN/CGSB-71.25- Adhesive, for Bonding Drywall to Wood Framing and Metal Studs

.5 Canadian Standards Association:

.1 CSA S136 – North American Specification for the Design of Cold-Formed Steel Structural Members

.6 Green Seal Environmental Standards (GS):

 .1 GS-11, Paints and Coatings

.7 Gypsum Association:

.1 GA-216, Specification for the Application and Finishing of Gypsum Panel Products

 .2 GA-214, Levels of Finish for Gypsum Panel Products

 .3 GA-253, Application of Gypsum Sheathing

.8 International Organization for Standardization:

.1 ISO 14024– Environmental Labels and Declaration, Type I Environmental Labeling Principles and Procedures

.2 ISO 14025 – Environmental Labels and Declarations, Type III Environmental Declarations Principles and Procedures

.9 Underwriters' Laboratories of Canada (ULC):

.1 ULC-S101, Fire Endurance Tests of Building Construction and Materials

.2 ULC-S102, Surface Burning Characteristics of Building Materials and Assemblies

.3 ULC-S114, Standard Method of Test for Determination of Non-Combustibility in Building Materials

1.3 DELIVERY, STORAGE AND HANDLING

.1 Deliver materials in original packages, containers or bundles bearing manufacturers brand name and identification.

.2 Store materials inside, level, under cover. Keep dry. Protect from weather, other elements and damage from construction operations and other causes.

.3 Handle gypsum boards to prevent damage to edges, ends or surfaces. Protect metal accessories and trim from being bent or damaged.

1.4 SITE ENVIRONMENTAL REQUIREMENTS

.1 Maintain temperature minimum 10 degrees C, maximum 21 degrees C for 48 hours prior to and during application of gypsum boards and joint treatment, and for at least 48 hours after completion of joint treatment.

.2 Apply board and joint treatment to dry, frost free surfaces.

.3 Ventilation: Ventilate building spaces as required to remove excess moisture that would prevent drying of joint treatment material immediately after its application.

1.5 SAMPLES

.1 Submit samples in accordance with Section [01 33 00 - Submittal Procedures].

1.6 WASTE MANAGEMENT AND DISPOSAL

.1 Separate and recycle waste materials in accordance with Section [01 74 21 -Construction/Demolition Waste Management and Disposal].

.2 Collect and separate for disposal [paper] [plastic] [polystyrene] [corrugated cardboard] packaging material [in appropriate on-site] for recycling in accordance with Waste Management Plan.

.3 Do not dispose of unused paint and caulking materials into sewer systems, into lakes, streams, onto ground or in other locations where it will pose health or environmental hazard.

**PART 2 - PRODUCTS**

2.1 MATERIALS

.1 Standard board: to ASTM C1396/C1396M, GREENGUARD Gold Certified, 12.7 mm thick, [\_\_\_\_\_\_] mm width x maximum practical length, ends square, edges tapered.

**Easi-Lite® by CertainTeed Gypsum**

 Low Carbon Standard board: to ASTM C1396/C1396M, GREENGUARD Gold Certified, 12.7 mm thick, [\_\_\_\_\_\_] mm width x maximum practical length, ends square, edges tapered.A1-A3 GWP reduced by ≥35%:

 **Easi-Lite® CarbonLow™ by CertainTeed Gypsum**

.2 Fire-Rated board: to ASTM C1396/C1396M, GREENGUARD Gold Certified,

Type X, 15.9 mm thick, standard width x maximum practical length, ends square, edges tapered.

**Type X by CertainTeed Gypsum**

 Low Carbon Fire-Rated board: to ASTM C1396/C1396M, GREENGUARD Gold Certified, Type X, 15.9 mm thick, standard width x maximum practical length, ends square, edges tapered. A1-A3 GWP reduced by ≥35%:

**Type X CarbonLow™ by CertainTeed Gypsum**

.3 Fire-Rated board: to ASTM C1396/C1396M, GREENGUARD Gold Certified,

Type C, [12.7 mm] [and][or] [15.9 mm] thick, 1220 mm x maximum practical length, ends square, edges tapered.

**Type C by CertainTeed Gypsum**

.4 Mould & Mildew resistant board: to ASTM C1396/C1396M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges tapered.

**M2Tech® Gypsum Board by CertainTeed Gypsum**

 Low Carbon Mould & Mildew resistant board: to ASTM C1396/C1396M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges tapered. A1-A3 GWP reduced by ≥35%:

 **M2Tech® CarbonLow™ Gypsum Board by CertainTeed Gypsum**

.5 Impact Resistant board: to ASTM C1396/C1396M, Surface Abrasion Classification Level 3 to ASTM D4977, Indentation Resistance Classification level 1 to ASTM D5420, Soft Body Classification Level 3 to ASTM E695, Hard Body Classification Level 3 to ASTM C1629, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, Type X, 15.9 mm thick, 1220 mm wide x maximum practical length, ends square, edges tapered.

**Extreme Impact by CertainTeed Gypsum**

NOTE: Installation of Impact Resistant Gypsum Board requires steel studs complying with ASTM C645 and shall be not less than 33 mils (0.836 mm) (“20 ga.”) design thickness and shall be in accordance with CSA-S136 and ASTM C645.

.6 Abuse resistant board: to ASTM C1396/C1396M, Surface Abrasion Classification Level 3 to ASTM D4977, Indentation Resistance Classification level 1 to ASTM D5420, Soft Body Classification Level 2 to ASTM E695, Hard Body Classification Level 2 to ASTM C1629, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, Type X, 15.9 mm thick,1220 mm wide x maximum practical length, ends square, edges tapered.

**Extreme Abuse by CertainTeed Gypsum**

NOTE: Installation of Abuse-Resistant Gypsum Board requires steel studs complying with ASTM C645 and shall be not less than 33 mils (0.836 mm) (“20 ga.) design thickness and shall be in accordance with CSA-S136 and ASTM C645.

.7 Abuse resistant board to ASTM C1396/C1396M, Surface Abrasion Classification Level 2 to ASTM D4977, Indentation Resistance Classification level 1 to ASTM D5420, Soft Body Classification Level 1 (Type C ) or Level 2 (Type X) to ASTM E695, Hard Body Classification Level 1 (Type X only) to ASTM C1629, GREENGUARD Gold Certified [Type C, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], [\_\_\_\_\_\_] mm wide x maximum practical length.

**Abuse Resistant Gypsum Board by CertainTeed Gypsum**

NOTE: Installation of Impact Resistant Gypsum Board requires steel studs complying with ASTM C645 and shall be not less than 33 mils (0.836 mm) ( “20 ga.”)design thickness and shall be in accordance with CSA-S136 and ASTM C645.

.8 Acoustical Gypsum Board: to ASTM C1396/C1396M, ASTM C1766/C1766M:Mould Resistance rating of 10 to ASTM D3273: Surface Abrasion Classification Level 3 to ASTM D4977/ Soft Body Classification Level 1 ASTM E695, Indentation Resistance Classification level 1 (Type X only) to ASTM D5420, Soft Body Classification Level 1 (Type X only) to ASTM E695, GREENGUARD Gold Certified [regular,

12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges tapered.

**SilentFX® Quick-Cut™ by CertainTeed Gypsum.**

.9 Flexible Gypsum Board**:** to ASTM C 1396/C 1396M, 6.4 mm thick, 1220 mm wide x maximum practical length, ends square, edges tapered.

**1/4” Flex Board by CertainTeed Gypsum**

.10 Glass mat water-resistant gypsum backing panel: to ASTM C1178/C1178M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], standard width x maximum practical length, ends square, edges square.

**GlasRoc® Tile Backer by CertainTeed Gypsum**

 Low Carbon glass mat water-resistant gypsum backing panel: to ASTM C1178/C1178M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], standard width x maximum practical length, ends square, edges square. A1-A3 GWP reduced by ≥35%:

**GlasRoc® Tile Backer CarbonLow™ by CertainTeed Gypsum**

.11 Glass mat moisture-resistant interior gypsum panel: to ASTM C1658, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges tapered.

**GlasRoc® Interior by CertainTeed Gypsum**

 Low Carbon glass mat moisture-resistant interior gypsum panel: to ASTM C1658, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges tapered. A1-A3 GWP reduced by ≥35%:

**GlasRoc® Interior CarbonLow™ by CertainTeed Gypsum**

**.**12 Shaft liner board: to ASTM C1396/C1396M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, Type X, 25 mm thick, 610 mm wide x maximum practical length, ends square, edges beveled.

**M2Tech® Shaftliner by CertainTeed Gypsum**

.13 Glass mat weather-resistant shaft liner panel: to ASTM C1658/C1658M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, Type X, 25 mm thick, 610 mm wide x maximum practical length, ends square, edges beveled.

**GlasRoc® Shaftliner by CertainTeed Gypsum**

.14 Glass mat gypsum sheathing panel: to ASTM C1177/C1177M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges square.

**GlasRoc® Sheathing by CertainTeed Gypsum**

 Low carbon glass mat gypsum sheathing panel: to ASTM C1177/C1177M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges square. A1-A3 GWP reduced by ≥35%:

**GlasRoc® CarbonLow™ Sheathing by CertainTeed Gypsum**

.15 Exterior gypsum soffit panel: to ASTM C1177/C1177M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges square.

**GlasRoc® Sheathing by CertainTeed Gypsum**

**GlasRoc® Interior by CertainTeed Gypsum**

 Low carbon glass mat gypsum sheathing panel: to ASTM C1177/C1177M, Mould Resistance rating of 10 to ASTM D3273, GREENGUARD Gold Certified, [regular, 12.7 mm thick] [and][or] [Type X, 15.9 mm thick], 1220 mm wide x maximum practical length, ends square, edges square.A1-A3 GWP reduced by ≥35%:

 **GlasRoc® Sheathing CarbonLow™ by CertainTeed Gypsum**

**GlasRoc® Interior CarbonLow™ by CertainTeed Gypsum**

.16 Metal furring runners, hangers, tie wires, inserts, and anchors: to [\_\_\_\_\_\_].

.17 Drywall furring channels: 0.5 mm core thickness galvanized steel channels for screw attachment of gypsum board.

.18 Resilient clips: 0.5 mm base steel thickness galvanized steel for resilient attachment of gypsum board.

.19 Nails: to ASTM C514.

.20 Steel drill screws: to ASTM C1002.

.21 Stud adhesive: to [CAN/CGSB-71.25] [ASTM C557].

.22 Laminating compound: as recommended by manufacturer, asbestos-free.

.23 Casing beads, corner beads, and edge trim: to ASTM C1047, copolymer, 0.5 mm base edge thickness, one piece length per location. GREENGUARD Gold Certified. **No-Coat® Drywall Corner by CertainTeed Gypsum**

.24 Casing beads, corner beads, control joints and edge trim: to ASTM C 1047, [ABS] [PVC] [Zinc] [metal, [zinc-coated by hot-dip process] [zinc-coated by electrolytic process] [aluminum coated] [phosphatized]], [0.5] mm base thickness, perforated flanges, one piece length per location.

.25 Cornice cap: [12.7] mm deep x partition width, of [[1.6] mm base thickness galvanized sheet steel, prime painted] [extruded aluminum, minimum [2.5] mm thick, clear anodized to Aluminum Association designation AA [\_\_\_\_\_\_]]. Include splice plates for joints.

.26 Shadow mould: [35] mm high, snap-on trim, of [[0.6] mm base steel thickness galvanized sheet pre-finished in satin enamel] [extruded PVC plastic] [extruded rubber], [black] [white] colour.

.27 Sealants: in accordance with Section [07 92 00 - Joint Sealing].

.28 Acoustical sealant: [\_\_\_\_\_\_].

.29 Polyethylene: to CAN/CGSB-51.34, Type 2.

.30 Smart Vapour Retarder: 2 mm thick polyamide.

**MemBrain™ Smart Vapour Retarder by CertainTeed.**

.31 Insulating strip: rubberized, moisture resistant [3] mm thick [cork] [closed cell neoprene] strip, [12] mm wide, with self-sticking permanent adhesive on one face, lengths as required.

.32 Joint compound: to ASTM C475/C475M, GREENGUARD Gold Certified.

 **CertainTeed® All-Purpose Joint Compound by CertainTeed Gypsum**.

.33 Mould & Mildew resistant Joint Compound: to ASTM C475/C475M, GREENGUARD Gold certified. **CertainTeed® Mold-Resistant Lite Joint Compound by CertainTeed Gypsum**.

.34 Setting Compound: to ASTM C475/C475M, GREENGUARD Gold certified. **CertainTeed® Lite Sand Plus Setting Compound by CertainTeed Gypsum**

.35 High Density Setting Compound: to ASTM C475/C475M.

 **High Density 90 Setting Compound by CertainTeed Gypsum**

.36 Mould & Mildew resistant Setting Compound: to ASTM C475/C475M, mould resistance rating of 10 to ASTM D3273, GREENGUARD Gold certified.

**M2Tech® Setting Compound** **by CertainTeed Gypsum**

.37 Joint Tape: for use with joint compounds. GREENGUARD Gold Certified.

**Marco® Spark-Perf Paper Tape by CertainTeed Gypsum**

.38 Fibreglass Joint Tape: for use with setting or joint compounds, GREENGUARD Gold Certified.

**FibaFuse® Paperless Drywall Tape by CertainTeed Gypsum**

2.2 FINISHES

.1 Texture finish: **CertainTeed® Wall and Ceiling Texture by CertainTeed Gypsum**

.2 Level 5 finish: **CertainTeed® brand Level V Wall & Ceiling Primer/Surfacer by CertainTeed Gypsum.**

**PART 3 - EXECUTION**

3.1 ERECTION

.1 Do applications and finishing of gypsum board in accordance with ASTM C840 and/or GA-216 except where specified otherwise.

.2 Do application of gypsum sheathing in accordance with ASTM C1280 and/or GA-253.

.3 Erect hangers and runner channels for suspended gypsum board ceilings in accordance with ASTM C840 except where specified otherwise.

.4 Support light fixtures by providing additional ceiling suspension hangers within 150 mm of each corner and at maximum 600 mm around perimeter of fixture.

.5 Install work level to tolerance of [1:1200].

.6 Frame with furring channels, perimeter of openings for access panels, light fixtures, diffusers, grilles, [\_\_\_\_\_\_].

.7 Install [19 x 64] mm furring channels parallel to, and at exact locations of steel stud partition header track.

.8 Furr for gypsum board faced vertical bulkheads within and at termination of ceilings.

.9 Furr above suspended ceilings for gypsum board fire and sound stops and to form plenum areas as indicated.

.10 Install wall furring for gypsum board wall finishes in accordance with ASTM C840, except where specified otherwise.

.11 Furr openings and around built-in equipment, cabinets, access panels, [\_\_\_\_\_\_], on four sides. Extend furring into reveals. Check clearances with equipment suppliers.

.12 Furr duct shafts, beams, columns, pipes and exposed services where indicated.

.13 Erect drywall resilient furring transversely across [studs] [joists] [between the layers of gypsum board], spaced maximum [600] mm on centre and not more than 150 mm from ceiling/wall juncture. Secure to each support with [[38] mm common nail] [[25] mm drywall screw].

.14 Install 150 mm continuous strip of 12.7 mm gypsum board along base of partitions where resilient furring installed.

3.2 APPLICATION

.1 Do not apply gypsum board until bucks, anchors, blocking, sound attenuation, electrical and mechanical work are approved.

.2 Apply [single] [double] layer gypsum board to [wood] [metal] furring or framing using [screw fasteners] [stud adhesive] [for first layer], [laminating adhesive] [screw fasteners] [for second layer]. [Maximum spacing of screws 300 mm on-centre].

.1 Single-Layer Application:

.1 Apply gypsum board on ceilings prior to application of walls in accordance with ASTM C840.

.2 Apply gypsum board vertically or horizontally, providing sheet lengths that will minimize end joints.

.2 Double-Layer Application:

.1 Install gypsum board for base layer and exposed gypsum board for face layer.

.2 Apply base layer to ceilings prior to base layer application on walls; apply face layers in same sequence. Offset joints between layers at least 250 mm.

.3 Apply base layers at right angles to supports unless otherwise indicated.

.4 Apply base layer on walls and face layers vertically with joints of base layer over supports and face layer joints offset at least 250 mm with base layer joints.

.3 Apply [single] [double] layer gypsum board to [concrete] [concrete block] surfaces, where indicated, using laminating adhesive.

.1 Comply with gypsum board manufacturer's recommendations.

.2 Brace or fasten gypsum board until fastening adhesive has set.

.3 Mechanically fasten gypsum board at top and bottom of each sheet.

.4 Exterior Soffits and Ceilings: Install exterior gypsum board perpendicular to supports; stagger end joints over supports. Install with 6 mm gap where boards abut other work.

.5 Apply water-resistant gypsum board [where [wall tiles] [coating] to be applied] [and] [adjacent to [slop sinks] [janitors closets] [\_\_\_\_\_\_]]. Apply water-resistant sealant to edges, ends, cutouts that expose gypsum core and to fastener heads. [Do not apply joint treatment on areas to receive tile finish.]

.6 Apply [12] mm diameter bead of acoustic sealant continuously around periphery of each face of partitioning to seal gypsum board/structure junction where partitions abut fixed building components. Seal full perimeter of cutouts around electrical boxes, ducts, [\_\_\_\_\_\_], in partitions where perimeter sealed with acoustic sealant.

.7 Apply board using [stud adhesive on furring or framing] [laminating adhesive on base layer of gypsum board].

.8 Install ceiling boards in direction that will minimize number of end-butt joints. Stagger end joints at least 250 mm.

.9 Install gypsum board on walls vertically to avoid end-butt joints. At stairwells and similar high walls, install boards horizontally with end joints staggered over studs, except where local codes or fire-rated assemblies require vertical application.

.10 Install gypsum board with face side out.

.11 Do not install damaged or damp boards.

.12 Locate edge or end joints over supports. Stagger vertical joints over different studs on opposite sides of wall.

3.3 INSTALLATION

.1 Erect accessories straight, plumb or level, rigid and at proper plane. Use full-length pieces where practical. Make joints tight, accurately aligned and rigidly secured. Miter and fit corners accurately, free from rough edges. Secure [at [150] mm on centre] [using contact adhesive for full length].

.2 Install casing beads around perimeter of suspended ceilings.

.3 Install casing beads where gypsum board butts against surfaces having no trim concealing junction and where indicated. [Seal joints with sealant.]

.4 Install insulating strips continuously at edges of gypsum board and casing beads abutting metal window and exterior doorframes, to provide thermal break.

.5 Install shadow mould at gypsum board/ceiling juncture [as indicated]. Minimize joints; use corner pieces and splicers.

.6 Construct control joints of [preformed units] [two back-to-back casing beads] set in gypsum board facing and supported independently on both sides of joint.

.7 Provide continuous polyethylene dust barrier behind and across control joints.

.8 Locate control joints [where indicated] [at changes in substrate construction] [at approximate [10] m spacing on long corridor runs] [at approximate [15] m spacing on ceilings].

.9 Install control joints straight and true.

.10 Construct expansion joints [as detailed], at building expansion and construction joints. Provide continuous dust barrier.

.11 Install expansion joint straight and true.

.12 Install cornice cap where gypsum board partitions do not extend to ceiling.

.13 Fit cornice cap over partition, secure to partition track with two rows of sheet metal screws staggered at [300] mm on center.

.14 Splice corners and intersections together and secure to each member with 3 screws.

.15 Install access doors to electrical and mechanical fixtures specified in respective sections.

.1 Rigidly secure frames to furring or framing systems.

.16 Finish face panel joints and internal angles with joint system consisting of joint compound, joint tape and taping compound installed according to manufacturer's directions and feathered out onto panel faces.

.17 Gypsum Board Finish: finish gypsum board walls and ceilings to following levels in accordance with GA-214, Levels of Finish for Gypsum Panel Products:

.1 Levels of finish:

.1 Level 0: No tapping, finishing or accessories required.

.2 Level 1: Embed tape for joints and interior angles in CertainTeed® joint compound. Surfaces to be free of excess joint compound; tool marks and ridges are acceptable.

.3 Level 2: Embed fibre mesh tape for joints and interior angles in CertainTeed® setting compound and apply one separate coat of CertainTeed® setting compound over joints, angles, fastener heads and accessories; surfaces free of excess setting compound; tool marks and ridges are acceptable.

.4 Level 3: Embed tape for joints and interior angles in CertainTeed® joint compound and apply two separate coats of CertainTeed® joint compound over joints, angles, fastener heads and accessories; surfaces smooth and free of tool marks and ridges.

.5 Level 4: Embed tape for joints and interior angles in CertainTeed® joint compound and apply three separate coats of CertainTeed® joint compound over joints, angles, fastener heads and accessories; surfaces smooth and free of tool marks and ridges.

.6 Level 5: Embed tape for joints and interior angles in CertainTeed® joint compound and apply three separate coats of CertainTeed® joint compound over joints, angles, fastener heads and accessories; apply a thin skim coat of CertainTeed® joint compound or CertainTeed® Level V to entire surface; surfaces smooth and free of tool marks and ridges.

.18 Finish corner beads, control joints and trim as required with two coats of CertainTeed® joint compound and one coat of CertainTeed® taping compound, feathered out onto panel faces.

.19 Fill screw head depressions with CertainTeed® joint and taping compounds to bring flush with adjacent surface of gypsum board, to be invisible after surface finish is completed.

.20 Sand lightly to remove burred edges and other imperfections. Avoid sanding adjacent surface of board.

.21 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for surface finish.

.22 Apply one coat of white primer sealer over surface to be textured. When dry apply textured finish in accordance with manufacturer's instructions.

.23 Mix CertainTeed® joint compound slightly thinner than for joint taping.

.24 Apply thin coat to entire surface using trowel or drywall broad knife to fill surface texture differences, variations or tool marks.

.25 Allow skim coat to dry completely.

.26 Remove ridges by light sanding or wiping with damp cloth.

.27 Provide protection that ensures gypsum drywall work will remain without damage or deterioration at time of substantial completion.

3.4 SCHEDULES
 .1 Construct fire rated assemblies where indicated.

.1 [\_\_\_\_\_\_] hour fire rated partition assembly, ULC Design No. [\_\_\_\_\_\_] or UL/cUL Design No. [\_\_\_\_\_\_].

.2 [\_\_\_\_\_\_] hour fire rated floor/ceiling assembly, ULC Design No. [\_\_\_\_\_\_] or UL/cUL Design No. [\_\_\_\_\_\_].

.3 [\_\_\_\_\_\_] hour fire rated ceiling/roof assembly, ULC Design No. [\_\_\_\_\_\_] or UL/cUL Design No. [\_\_\_\_\_\_].

.4 [\_\_\_\_\_\_] hour fire rated beam protection, ULC Design No. [\_\_\_\_\_\_] or UL/cUL Design No. [\_\_\_\_\_\_].

.5 [\_\_\_\_\_\_] hour fire rated column protection, ULC Design No. [\_\_\_\_\_\_] or UL/cUL Design No. [\_\_\_\_\_\_].