

# **UNIVERSITY OF TORONTO**

---

## **ADDENDUM 4 – SUMMARY OF REVISIONS TO CONSULTANT ISSUED ARCHITECTURAL SPECIFICATIONS**

### **33 URSULA FRANKLIN – MATH OFFICE RENOVATION**

33 URSULA FRANKLIN STREET  
TORONTO, ONTARIO  
**UNIVERSITY PROJECT NUMBER: P164-24-165**

**DATE ISSUED: MAY 21, 2026**

**CONSULTANT:**  
**UNIVERSITY, PLANNING, DESIGN AND CONSTRUCTION –  
DESIGN AND ENGINEERING**

---

**Part 1            General**

**1.1            ADDENDUM FORM**

- .1        This Addendum forms part of the Contract Documents and modifies the Bidding Documents dated April 22, 2026 as previously issued, with amendments and additions noted below.
- .2        This addendum summary consists of:
  - .1        Addendum 4 Summary pages
  - .2        Attached specification sections and revisions to specification changes as listed in 1.2  
CHANGES TO THE CONSULTANT'S ARCHITECTURAL SPECIFICATIONS

**1.2            CHANGES TO THE CONSULTANT'S ARCHITECTURAL SPECIFICATIONS**

- .1        Delete Section 09 65 10 - Resilient Flooring, dated April 22, 2026, and replace with Section 09 65 10 - Resilient Flooring, dated May 21, 2026.
- .2        Delete Section 09 84 11 - Acoustic Wall Treatment, dated April 22, 2026, and replace with Section 09 84 11 - Acoustic Wall Treatment, dated May 21, 2026.
- .3        Delete Section 12 24 00 - Window Roller Shades, dated April 22, 2026, and replace with Section 12 24 00 - Window Roller Shades, dated May 21, 2026.

**END OF ADDENDUM 4 SUMMARY – CONSULTANT ARCHITECTURAL SPECIFICATIONS**

**Part 1            General**

**1.1            SECTION INCLUDES**

- .1      Resilient vinyl sheet flooring.
- .2      Resilient vinyl composite tile flooring.
- .3      Resilient vinyl base.
- .4      Resilient vinyl transitions accessories

**1.2            RELATED SECTIONS**

- .1      Section 03 54 00 - Self-leveling Underlayment
- .2      Section 06 41 11 - Architectural Cabinetwork
- .3      Section 08 11 13 - Standard Metal Doors, Frames and Sidelites
- .4      Section 09 21 16 - Gypsum Board Assemblies: Wall materials to receive application of base.
- .5      Section 09 68 13 - Tile Carpeting

**1.3            REFERENCES**

- .1      ASTM E84-15a - Standard Test Method for Surface Burning Characteristics of Building Materials.
- .2      ASTM F1066-04(2014) e1 - Standard Specification for Vinyl Composition Floor Tile.
- .3      ASTM F1861-08(2012)e1 - Standard Specification for Resilient Wall Base.
- .4      ASTM F1913-04(2014) - Standard Specification for Vinyl Sheet Floor Covering Without Backing.
- .5      CAN/ULC-S102.2-10 - Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings and Miscellaneous Materials and Assemblies.
- .6      ISO 10581 Homogeneous vinyl floor covering

**1.4            SUBMITTALS FOR REVIEW**

- .1      Section 01 30 00: Submission procedures.
- .2      Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, patterns and colours available.
- .3      Shop Drawings: Indicate seaming plan, borders and patterns.
- .4      Samples:
  - .1      Submit two (2) samples, 300 x 300 mm in size illustrating colour and pattern for each floor material for each colour specified.
  - .2      Submit two (2) 300 mm long samples of base and transition strip material for each colour specified.

**1.5 SUBMITTALS FOR INFORMATION**

- .1 Section 01 30 00: Submission procedures.
- .2 Installation Data: Manufacturer's special installation requirements including special procedures, perimeter conditions requiring special attention .

**1.6 CLOSEOUT SUBMITTALS**

- .1 Section 01 78 39 and Section 01 92 00: Submission procedures.
- .2 Operation and Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

**1.7 MAINTENANCE MATERIAL SUBMITTALS**

- .1 Section 01 78 40: Maintenance and extra material requirements.
- .2 Extra Stock Materials to Turn Over to University:
  - .1 Provide half roll (20 m2) flooring sheet
  - .2 6100 Lin mm of base of each base and transition material specified.
  - .3 Leave 1 carton of tile for each 93 m2 (1000 sq ft) or less of each colour of vinyl tile installed, for University's future use. Label cartons as to contents and indicate areas where tiles were used.

**1.8 QUALITY ASSURANCE**

- .1 Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum five (5) years documented experience.
- .2 Installer Qualifications: Company specializing in performing the work of this section with minimum five (5) years documented experience and approved by the manufacturer.

**1.9 REGULATORY REQUIREMENTS**

- .1 Conform to applicable code for flame/smoke rating requirements to CAN/ULC-S102.2 .

**1.10 DELIVERY, STORAGE, AND PROTECTION**

- .1 Section 01 60 00: Transport, handle, store, and protect products.
- .2 Protect roll materials from damage by storing .

**1.11 SITE CONDITIONS**

- .1 Ambient Conditions:
  - .1 Store materials for three (3) days prior to installation in area of installation to achieve temperature stability.
  - .2 Maintain ambient temperature required by adhesive manufacturer three (3) days prior to, during, and twenty-four (24) hours after installation of materials.

**1.12 WARRANTY**

- .1 Provide the Vinyl Composite Tile Limited 5-year Warranty, starting on the date of Ready for Takeover.

- .2 Provide the Sheet Vinyl Flooring Limited 20-year Warranty, starting on the date of Ready for Takeover.

## **Part 2 Products**

### **2.1 MANUFACTURERS – VINYL SHEET FLOORING**

- .1 Tarkett; Product: IQ Eminent.
- .2 Substitutions: Refer to Section 01 60 00 .

### **2.2 MATERIALS - VINYL SHEET FLOORING**

- .1 RF1 Vinyl Sheet without Backing:
  - .1 Meets performance standards of ASTM F1913, Standard Specification for Vinyl Sheet Floor Covering without Backing
  - .2 ISO 10581 Homogeneous vinyl floor covering.
  - .3 Binder content ISO 10581 Type I
  - .4 Commercial classification ISO 10874 34 Very Heavy
    - .1 Tarkett; Product:
      - .1 IQ Eminent 819 Dark Grey CG
      - .2 Colour and pattern through total thickness.

### **2.3 MATERIALS – VINYL COMPOSITE TILE WITH VINYL BASE**

- .1 VCT1 Vinyl Composite Tile: Meets the performance requirements of ASTM F 1066, Standard Specification for Vinyl composition Tile, Class 2 (Through pattern) and Class 1 (Solid Colour).
  - .1 Tarkett; Product: Tarkett VCT II: 557 Shooting Star
  - .2 Total Thickness: 3 mm.
- .2 VCT2 Vinyl Composite Tile: DELETED.
- .3 VCT3 Vinyl Composite Tile: DELETED.
- .4 VCT4 Vinyl Composite Tile DELETED.
- .5 VCT5 Vinyl Composite Tile: DELETED.

### **2.4 MATERIALS – VINYL BASE**

- .1 Manufacturers:
  - .1 Johnsonite; Product: Johnsonite Traditional Cove Wall Base TV:
    - .1 Height: 4" (102 mm)
    - .2 Thickness: 1/8" (3.175 mm)
    - .3 Colour: 63 Burnt Umber B
- .2 Substitutions: Refer to Section 01 60 00.

## **2.5 ACCESSORIES**

- .1 Subfloor Filler: type recommended by adhesive material manufacturer.
- .2 Primers and Adhesives: Waterproof; types recommended by flooring manufacturer.
  - .1 Manufacturer's Adhesives for Vinyl Composite Tile, as recommended for existing floor substrate type and condition:
    - .1 Tarkett 100 Clear Thin Spread Adhesive Porous & Non-porous Substrate: 250-300 sq. ft./gal.
    - .2 Tarkett 975 Two-Part Polyurethane Adhesive Porous & Non-porous Substrate: 225-250 sq. ft. per gallon
    - .3 Tarkett 996 Two-Part Epoxy Adhesive Porous & Non-porous Substrate: 225-250 sq. ft. per gallon
    - .4 Tarkett 901 SpraySmart Adhesive Coverage: Porous & Non-porous Substrate: 200 sq. ft. per container (1,200 sq. ft. per carton)
  - .2 Manufacturer's Adhesives for Sheet Vinyl Flooring, as recommended for existing floor substrate type and condition:
    - .1 Tarkett 925 Adhesive Coverage: Porous Substrate: 250-300 sq. ft./gal. Non-porous Substrate: 250-300 sq. ft. per gallon
    - .2 Tarkett 975 Two-Part Urethane Adhesive Coverage: Porous & Non-porous Substrate: 225-250 sq. ft. per gallon
    - .3 Tarkett 996 Two-Part Epoxy Adhesive Coverage: Porous & Non-porous Substrate: 225-250 sq. ft. per gallon
    - .4 Tarkett RollSmart Adhesive Coverage: Porous & Non-porous Substrate: 350 - 400 sq. ft. per gallon (3/8" Nap Paint Roller used with a paint tray)
    - .5 Tarkett Cold Weld Liquid Coverage: 175 – 200 lf. per. 4.5oz. tube
- .3 Edge Strips: Flooring material, colour as selected by Consultant:
  - .1 At floor finish transition strip between vinyl sheet flooring and carpet tile:
    - .1 Product: Johnsonite, CTA-XX-H.
  - .2 At floor finish transition strip between existing vinyl composite tile flooring and carpet tile:
    - .1 Product: Johnsonite, CTA-XX-H.
  - .3 At floor finish transition strip between vinyl composite tile flooring and vinyl composite tile flooring:
    - .1 Product: Johnsonite, CTA-XX-N.
- .4 Sealer and Wax: Types recommended by flooring manufacturer.

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Section 01 70 00: Verify existing conditions before starting work.
- .2 Verify concrete floors are dry to a maximum moisture content of 7%, and exhibit negative alkalinity, carbonization, or dusting.

- .3 Verify floor and lower wall surfaces are free of substances that may impair adhesion of new adhesive and finish materials.

### **3.2 PREPARATION**

- .1 Remove sub-floor ridges and bumps. Fill minor or local low spots, cracks, joints, holes, and other defects with sub-floor filler to achieve smooth, flat, hard surface.
- .2 Prohibit traffic until filler is cured.
- .3 Vacuum clean substrate.
- .4 Apply primer to floor and base surfaces.

### **3.3 INSTALLATION - SHEET FLOORING**

- .1 Install sheet flooring to manufacturer's written instructions.
- .2 Spread only enough adhesive to permit installation of materials before initial set.
- .3 Set flooring in place, press with heavy roller to attain full adhesion.
- .4 Lay flooring with joints and seams in accordance with seaming plan and to produce minimum number of seams.
- .5 Install sheet flooring parallel to length of room. Provide minimum of one third (1/3) full roll width. Double cut sheet; provide continuously heat welded seal .
- .6 Terminate flooring at centreline of door openings where adjacent floor finish is dissimilar.
- .7 Install edge strips at unprotected or exposed edges, and where flooring terminates.
  - .1 Secure resilient strips by adhesive.
- .8 Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.
- .9 Install flooring in pan type floor access covers. Maintain floor pattern.
- .10 At movable partitions install flooring under partitions without interrupting floor pattern.
- .11 Install edge strips where indicated. Fit joints tightly.

### **3.4 INSTALLATION – VINYL COMPOSITE TILE FLOORING**

- .1 Install tile flooring to manufacturer's written instructions.
- .2 Spread only enough adhesive to permit installation of materials before initial set.
- .3 Set flooring in place, press with heavy roller to attain full adhesion.
- .4 Lay flooring with joints and seams in accordance with seaming plan to produce minimum number of seams.
- .5 Install tile flooring parallel to length width of room. Provide minimum of one third (1/3) full roll width. Double cut sheet; provide continuously heat welded seal joint.
- .6 Terminate flooring at centreline of door openings where adjacent floor finish is dissimilar.
- .7 Install edge strips at unprotected or exposed edges, and where flooring terminates.
  - .1 Secure resilient strips by adhesive.

.8 Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

.9 Install feature strips and base where indicated. Fit joints tightly.

### **3.5 INSTALLATION - BASE**

.1 Fit joints tight and vertical. Maintain minimum measurement of 450 mm between joints.

.2 Mitre internal corners. At external corners, 'V' cut back of base strip to 2/3 of its thickness and fold. At exposed ends, use premoulded units.

.3 Install base on solid backing. Bond tight to wall and floor surfaces.

.4 Scribe and fit to door frames and other interruptions.

### **3.6 CLEANING**

.1 Section 01 70 00: Cleaning installed work.

.2 Remove access adhesive from floor, base, and wall surfaces without damage.

.3 Clean, seal, and wax floor and base surfaces in accordance with manufacturer's written instructions.

### **3.7 PROTECTION OF FINISHED WORK**

.1 Section 01 70 00: Protecting installed work.

.2 Prohibit traffic on floor finish for forty-eight (48) hours after installation.

### **3.8 SCHEDULES**

.1 Refer to Drawings for Room Finish Schedule, Flooring Finish Plan and Details.

.2 Refer to Room Finish Schedule and Drawings for rooms to receive wall base types: resilient base.

END OF SECTION



**Part 1 General**

**1.1 SECTION INCLUDES**

- .1 Acoustic panels, wall mounted.
- .2 Installation and adhesive

**1.2 RELATED SECTIONS**

- .1 Section 09 21 16 - Gypsum Board Assemblies: Wall support construction for acoustic panel assemblies.

**1.3 REFERENCES**

- .1 ASTM C423-09a - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
- .2 ASTM E84-15a - Standard Test Method for Surface Burning Characteristics of Building Materials.
- .3 CAN/ULC-S102-18 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

**1.4 SYSTEM DESCRIPTION**

- .1 Assembly of components includes shop fabricated acoustic wall mounted fabric panels/tiles.
- .2 Fabric: Flame spread and smoke developed ratings as required by code

**1.5 PERFORMANCE REQUIREMENTS**

- .1 Acoustic Performance:
  - .1 Ceiling Panels shall have noise reduction coefficient values of the following when tested in accordance with ASTM - C423: Noise Reduction Coefficient): NRC 0.65
- .2 Manufactured from flame-retardant fiber as new material to ensure ASTM E84 class A and Can/ULC-S102 Class A fire rating certification.
- .3 Moisture Resistance: High moisture resistance properties.
- .4 Impact Resistance: High impact resistant properties.

**1.6 SUBMITTALS FOR REVIEW**

- .1 Section 01 30 00: Submission procedures.
- .2 Product Data Manufacturer's descriptive literature for panel system, including component item data, physical sizes, and clearances required.
- .3 Shop Drawings: Indicate general room layout showing acoustic panel locations and orientation, reflective and absorptive, required construction and anchorage details, rough openings affected, size and tolerances of openings.
- .4 Samples: Submit two (2) tile samples, for each colour specified.

**1.7 SUBMITTALS FOR INFORMATION**

- .1 Section 01 30 00: Submission procedures.
- .2 Manufacturer's Certificate: Certify that products meet or exceed specified performance requirements.
  - .1 Certify system acoustical and fire resistance performance.
  - .2 Certify that installers have been trained and are qualified to install the components.
- .3 Test Reports:
  - .1 Submit substantiating engineering data, test results of previous tests by independent laboratory which purport to meet performance criteria, and other supportive data.
  - .2 Submit tests reports from a testing laboratory indicating that the components have passed all noted fire resistance requirements and acoustical requirements.

**1.8 CLOSEOUT SUBMITTALS**

- .1 Section 01 78 39 and Section 01 92 00: Submission procedures.

**1.9 QUALITY ASSURANCE**

- .1 Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum five (5) years documented experience.
- .2 Installer Qualifications: Company specializing in performing the work of this section with minimum five (5) years documented experience .

**1.10 REGULATORY REQUIREMENTS**

- .1 Conform to applicable code for fire rated panel construction and combustibility requirements for materials.

**1.11 SITE CONDITIONS**

- .1 Installation of acoustical treatment shall not begin until all wet work is completely dry. These materials are designed for installation under standard occupancy conditions from 15°C (60°F) to 30°C (85°F) at not more than 80% relative humidity in an enclosed building.
- .2 The acoustical contractor shall be responsible for the examination and acceptance of all surfaces and conditions affecting the proper installation of their material, and shall not proceed until all unsatisfactory conditions have been corrected by others.

**1.12 WARRANTY**

- .1 Provide the Manufacturers Limited 2-year Warranty, starting on the date of Ready for Takeover.

**Part 2 Products**

**2.1 MANUFACTURER: ACOUSTIC WALL TILE**

- .1 Hush Acoustics.; Product: HUSH Etched Wall Tiles.
- .2 For substitutions by other acceptable manufacturers offering functionally and aesthetically equivalent products, refer to Section 01 60 00.

## **2.2 COMPONENTS**

- .1 Absorptive Acoustic Wall Panel Construction:
  - .1 Hush Acoustics - Etched #9 - Full Stripe
  - .2 Panel Size: 300 mm x 300 mm
  - .3 Thickness: 12mm
  - .4 Colour Option tagged as shown on the Drawings:
    - .1 Element colours:
      - .1 **Fog in 2nd Floor and 3rd Floor**
  - .5 Product Placement:
    - .1 Walls
    - .2 Install grouped wall tiles with stripe oriented vertically, so that stripe is uniformly oriented vertical between top and bottom of the wall area shown on Drawings
  - .6 Composition: 100% PET (Polyethylene Terephthalate); 60% recycled material
- .2 Adhesive: Construction adhesive as recommended by Acoustic Wall Tile Manufacturer

## **Part 3 Execution**

### **3.1 EXAMINATION**

- .1 Section 01 70 00: Verify existing conditions before starting work.
- .2 Verify that adjacent materials and surfaces are dry, in a dust free environment, free of obstructions, and ready to receive system installation.
- .3 Verify wall construction, painting, is complete prior to installation.

### **3.2 INSTALLATION**

- .1 Install and orient panels as identified on approved shop drawings.
- .2 Install acoustic panels to pattern determined by shop drawings. Orient surface facings of panels to optimize absorption characteristics.
- .3 Razor trim edges on flat work table. Do not razor cut on gypsum board panel surfaces.
- .4 Place and position panels plumb and level. Install panels to manufacturer's instructions:
  - .1 Locate the back of the Wall Tile. (Note: The back of the tile will have no etched patterns or beveled edges).
  - .2 On the back of the Wall Tile, starting at the top corner, apply a bead of adhesive that is approximately 1/4" wide.
  - .3 Continue the bead of adhesive across the width of the Wall Tile.
  - .4 Working quickly, complete the Wall Tile in a back-and-forth pattern.
  - .5 Your Wall Tile is now ready to be installed on the wall in the desired location. (Please note that the Wall Tile should be mounted on the wall within 60 seconds of applying adhesive).
  - .6 With the Wall Tile located on the wall, apply firm pressure evenly over the entire surface of the Wall Tile and hold it in place for a few seconds. The Wall Tile is now installed. Repeat steps 1-6 for all remaining tiles.

**3.3 CLEANING**

- .1 Section 01 70 00: Cleaning installed work.
- .2 Clean finish surfaces and accessories.
- .3 Spot clean, if required, according to manufacturer's instructions using a mild solvent, upholstery shampoo, or foam from a mild detergent.

**END OF SECTION**

**Part 1 General**

**1.1 SECTION INCLUDES**

- .1 Solarfective Teleshade (TS) Series Manual Shading System as basis of design.

**1.2 RELATED SECTIONS**

- .1 Section 09 91 10 - Painting

**1.3 SYSTEM DESCRIPTION**

- .1 Provide for infinite positioning of window shade.
- .2 Noise reduction seals for sound isolation and absorption of mechanism noise.
- .3 Shade Orientation: Shade cloth to roll at window side of roller.
- .4 Solar control shade: fabric:
  - .1 Degree of Openness: 3%.
- .5 Black out shade: fabric:
  - .1 Opaque.
- .6 Provide for smooth and quiet operation.

**1.4 SUBMITTALS FOR REVIEW**

- .1 Section 01 30 00: Submission procedures.
- .2 Product Data: Provide manufacturer's data sheets describing components, accessories, dimensions, tolerances for window openings required, colours and textures.
- .3 Window Treatment Schedule: For all roller shades. Use same room designations as indicated on Drawings, field verified window dimensions, quantities, type of shades, controls, shade band material, color, and include opening sizes and key to typical mounting details.
- .4 Shop Drawings: Indicate dimensions in relation to window jambs, operator details, top rail, anchorage details, hardware and accessory details, conditions between adjacent blinds, required clearances.
- .5 Samples: Submit two (2) sets of 300 mm long samples of shade band material options and aluminum finish color samples representing manufacturer's full range of available colors and patterns. Mark face of material to indicate interior faces
- .6 Verification Samples: For each finish product specified, two complete sets of shade components demonstrating compliance with specified requirements. Shade band material sample and aluminum finish sample as selected, representing actual product, color, and patterns. Mark face of material to indicate interior faces.

**1.5 QUALITY ASSURANCE**

- .1 Manufacturer Qualifications: Company specializing in design and manufacturing of manual with a minimum of 25 years documented experience.
- .2 Installer Qualifications: Company certified by the manufacturer and specializing in installation of shade systems products with minimum 3 years documented experience.

- .3 System Components: Demonstrate that individual components have undergone quality control and testing prior to shipping.
- .4 **CAN/ULC-S 109 (large and small scale)**. Materials tested to match products proposed for use.
- .5 Mock-Up: One of each type of roller shade assembly specified for evaluation of mounting, appearance, and accessories.
- .6 Locate mock-up in windows designated by Architect.
- .7 Do not proceed with remaining work until mock-up is accepted by Architect.
- .8 Approved mock-ups may become part of the completed Work if undisturbed at time of Substantial Completion.

#### **1.6 PRE-INSTALLATION MEETINGS**

- .1 Convene a minimum two weeks prior to commencing Work of this section. Meeting to be attended by Contractor, Architect, system installer, factory authorized manufacturer's representative, and representative of all trades related to the system installation.
- .2 Review installation procedures and coordination required with related Work.
- .3 Inspect and make notes of job conditions prior to installation

#### **1.7 DELIVERY, STORAGE, AND HANDLING**

- .1 Deliver products in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.
- .2 Store fabric, tube, and motor units flat on a flat horizontal surface to prevent sagging and deformation/twisting of contents, until ready for installation.
- .3 Store products in a clean, dry space in original manufacturer's packaging in accordance with manufacturer's written instructions until ready for installation.

#### **1.8 SEQUENCING**

- .1 Ensure locating templates and information required for installation of products re furnished to affected trades in time to prevent interruption of construction progress.
- .2 Ensure products are supplied to affected trades in time to prevent interruption of construction progress.

#### **1.9 PROJECT CONDITIONS**

- .1 Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- .2 Do not install shade units until interior painting, wet work, ceilings, window pockets, and mechanical/electrical work above window site is complete before installation.

#### **1.10 CLOSEOUT SUBMITTALS**

- .1 Section 01 78 39 and Section 01 92 00: Submission procedures.
- .2 Operation and Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning.

**1.11 WARRANTY**

- .1 For all hardware including shade brackets, metal extrusions, and manual clutches: twenty-five (25) years.
- .2 Fabrics Used as Part of Shade System; for interior use only, regardless of whether fabrics are rated for outdoor/exterior use:
- .3 Phifer Fabrics: 10 years.

**1.12 EXTRA MATERIALS**

- .1 See Section 01 60 00 - Product Requirements.
- .2 Extra maintenance materials of 1 complete window shade system that match products installed, packaged with protective covering for storage, and identified with labels describing contents.

**Part 2 Products**

**2.1 MANUFACTURERS**

: Solarfactive as distributed by Elite Pro Shading Systems™

**.1 Acceptable Manufacturers:**

**.1 Basis for design: Solarfactive as distributed by Elite Pro Shading Systems™**

**.1 Contact:**

Elite Pro Shading Systems™

1 Applewood Crescent, Unit 1, Concord,

Ontario, Canada L4K 4K1

Phone: 1-800-387-3566 | (+1) 905-660-0049

[jcarione@eliteproshading.com](mailto:jcarione@eliteproshading.com)

<https://www.eliteproshading.com/solarfactive>

Contact:

Joe Carione, Sales Director

437-522-6180

[jcarione@eliteproshading.com](mailto:jcarione@eliteproshading.com)

**.2 Altex: Provide Window Roller Shade Product equivalent quality, performance and aesthetic to Basis of Design.**

**.1 Contact:**

7-171 Marycroft Avenue, Woodbridge, ON, L4L 5Y3

Website: <https://www.altexdesign.com/en/architectural-offer/>

e-mail: [info@altex.ca](mailto:info@altex.ca)

Phone: 905-660-3117, Toll Free 1-888-836-6980

.3 Sun Glow Window Covering Products of Canada Ltd: Provide Window Roller Shade Product equivalent quality, performance and aesthetic to Basis of Design.

.1 Contact:  
50 Hollinger Road, Toronto, ON M4B 3G5  
Website: <https://mysunglow.com/partner-with-us/architects/>  
e-mail: [info@mysunglow.com](mailto:info@mysunglow.com)  
Phone: 416-266-3501, + 1 800-668-1728 (Toll-Free)

.2 Substitutions: Refer to Section 01 60 00.

.3 Products specified in this section to be provided by a single manufacturer.

## 2.2 COMPONENTS

### .1 MANUAL TS SERIES SHADE SYSTEM:

.1 Elite Pro Solarfactive Teleshade TS Series Shading System: System shall be a smooth operating chain and sprocket roller shade system sunscreen type contained in a factory assembled shade cassette unit. Provide the following shade system configuration types in the locations indicated on the Drawings:

.1 Roller Shade Type: Manual Teleshade 4 single Cassette. Cassette size 3 1/16 inches D by 3 15/16 inches H.

.2 Single Shade: roller shade band consisting of a Sunscreen material inside the shade cassette unit. Each roller shade shall be independently controlled by pull chain as specified. Shadeband materials as specified.

### .2 MANUAL TS SERIES SHADE SYSTEM:

.1 Elite Pro Solarfactive Teleshade TS Series Shading System: System shall be a smooth operating chain and sprocket roller shade system sunscreen type contained in a factory assembled shade cassette unit. Provide the following shade system configuration types in the locations indicated on the Drawings:

.1 Roller Shade Type: SF-T9A: Manual Teleshade 4 Dual Cassette. Cassette size 5 5/16 inches D by 6 3/16 inches H.

.2 Dual Teleshade: roller shade band consisting of a Sunscreen material and Blackout inside the shade cassette unit. Each roller shade shall be independently controlled by pull chain as specified. Shadeband materials as specified.

### .2 Chain Operation:

.1 Clutchless, Easy-Lift Action, chain operated with infinite positioning, the shade could be closed at any point across its length of travel. Left hand, right hand or both sides operation available as standard and factory installed into the shade cassette unit.

.2 Manual Teleshade shall include a "manual override" requirement that allows the shade to be pulled down by the hem bar without using the chain or damaging the shade system.

.3 For each shade, provide Solarfactive Chain Guard, in compliance to the latest Corded Window Covering Regulations under the Canada Consumer Product Safety Act (SOR/2019-97).

### .3 Assembly:

.1 Fully factory assembled and pre-tested shade cassette unit consisting of two end brackets, chain installed as required, shade tube, extruded aluminum fascia, hembra, fabric shade material, regular or reverse roll of



- shade material, and cassette mounting attachment brackets for on-site installation. Brackets for the shade cassette unit shall be adjustable to level the unit for building irregularities and to minimize light gap above the shade cassette unit. Provide shade cassette unit ready for installation using attachment brackets fabricated from aluminum, included with each unit.
- .2 Attachment Brackets: T5 6005 Aluminum Brackets shall be designed and fabricated to allow for simple direct installation of the shade cassette unit to the building structure, as follows shall be standard and offered by the manufacturer:
- .1 Mounting Type 1: Outside Face of Mullions, back mounted or optional ceiling mounted
- .3 Removal of shade cassette unit shall not require disassembly of the shade unit or roller shade tube
- .4 End Bracket within Cassette Unit: 3 inches by 3-3/4 inches (77 by 96 mm), zinc plated steel, end bracket shall be two-piece molded ABS construction with 2-1/2 inches (64 mm) diameter nylon drive sprocket pop-riveted onto the bracket. Brackets color shall co-ordinate with the fascia color.
- .4 Shade Tube: Extruded T5 6005 aluminum shade tube shall be 1/16 inch (1.52mm) thick, complete with continuous screw fins 3/16 inch (4.82 mm) high; for strength and drive capabilities when attached to the nylon sprocket. Fins shall be spaced equidistant on tube and placed according to the weight and sizing characteristics necessary for the intended shade to be supported. Manufacturer to select tube with sufficient diameter size so deflection caused by weight of shade material and shade size is not visible and good performance is assured.
- .5 Fascia and End Caps: Extruded T6 6063 or 6360 aluminum fascia with front towards room interior, shall be 1/16 inch (1.7 mm) thick, complete with two continuous screw flutes, anodized, powder coated or custom painted. Attachment of fascia is to be two-part process: first, a friction fit of fascia into cassette shade unit, then step two is mechanical by a hidden/concealed screw lock-down of fascia to cassette shade unit. Fascia shall be secured by eight #6, 3/4-inch screws to the shade cassette unit. Fascia shall be suitable for regular or reverse roll. Reverse fascia with back towards window, is also available as an option. Fascia end caps shall be T6 6063 or 6360 aluminum and fabricated via a press fit and a secure mechanical fastener.
- .1 Fascia and End Cap Colours: Extruded aluminum with plastic end finials.
- .1 Finish: Clear anodized aluminum.
- .6 Shade Drive Assembly:
- .1 Factory set for size and travel of shades; chain installed.
- .2 Unit can be field adjusted from the exterior of the cassette shade unit without having to disassemble the hardware. No field servicing or lubrication of the bi-directional drive assembly is required. Operation and pulling of chain shall be free and without binding inside the assembly and permitting shade to stop at any point that chain is stopped and no longer being pulled.
- .3 Provided with a built-in shock absorber to prevent chain breakage, under normal usage conditions.
- .4 Factory installed upper bead stop to prevent shade from rolling beyond preset upper limit. The lower bead stop is to be installed in field after

- consultation with project Architect. Bead stops can be removed in the field and adjusted as required without disassembly of cassette shade unit. The purpose of bead stops is to prevent shade from being raised or lowered too far thereby preventing damage to shade and/or mechanism.
- .5 Compliant child-safety active-spring-loaded tensioning chain retainer supplied with all cassette shade units with one retainer per chain drive. Design is to be as specified by Window Covering Materials Association (WCMA).
- .6 Manufacturer shall include and fabricate with roller shade, a Lift Assist Mechanism (LAM), sized according to shade weight and consisting of a spring device installed in the roller shade tube. The Manufacturer shall install a LAM spring on all very large or heavy shades.
- .7 Drive Chain: shall be No. 10 Stainless Steel bead chain formed in a continuous loop. Chain with 90-pound tensile strength. Plastic type or Nickel-plate chain is not acceptable.
- .7 Exterior Hembar: Extruded T6 6360 aluminum with plastic end finials, attached in factory to shade band fabric material. Exposed hembar with both ends of hembar sealed.
- .8 Shade band Material Attachment: Attach shade band material to roller shade tube in factory. Manufacturer shall have capability for attachment via double sided tape for insuring shade band material lays flat, or by hidden spline with lightweight small profile plastic extrusion attached to shade band material and inserted into a groove machined into roller tube. Selection of attachment method can be determined by Specifier preference or depending on project requirements and size of finished shade cassette unit. All finished shades must be fabricated with one complete wrap of material minimum, to cover the attachment of the shade and material to the shade tube. This wrap length will vary due to size of shade and size of tube and factory assembly conditions.
- .9 Light Gap:
- .1 All Light Filtering Cassette Shade Units must maintain equivalent and symmetrical light gaps on both sides. Gap width to be 3/4 inch (19.5 mm).
- .2 All BlackOut Shades shall be provided with Room Darkening Side and Bottom Channels: Extruded T6 6063 aluminum channels 2 -3/4 inches (57.15 mm) by 1-1/8 inches (28.575 mm) supplied and installed to reduce light infiltration around the sides of the roller shades. Aluminum Channels to include .45 inch (11.43 mm), Pile/Fuzzy weather stripping to further minimize light infiltration. Provide channels in same finish and colour as for hembar and fascia. Install headbox, side channels, and sill channel with Silicone Sealant (Type D) specified in Section 07 92 00 - Joint Sealants to eliminate light leaks at perimeter of shade system. Colour as selected by Consultant.
- .10 Shade band Assembly Details:
- .1 Shade Cassette Unit manufacturer to assemble roller shade with specified shade band material to fill window opening from sill to head and from jamb to jamb unless project Architect has specified differently.
- .2 Manufacturer shall assemble roller shade with the indicated front side of shade band fabric material facing the interior of the room when roller shade is in down position. Project Architect can specify shade band material reversed, or turned so face is now visible from window, as project needs require.

- .3 All shade band material to hang flat without buckling, puckering, or distortion.
- .4 Manufacturer to provide T6 6061 aluminum battens in standard roller shades as necessary to insure proper rolling of roller shades and for proper tracking. The installing contractor and manufacturer shall fabricate roller shades with a width-to-height ratio that shall not exceed manufacturer's published guidelines. The batten shall be selected at manufacturers discretion based on size of shade and shade band material selected. All locations of seams to be approved by project Architect.
- .5 Manufacturer shall provide Railroaded type shade bands with seams as required to meet size requirements and to match other seams. All locations of seams to be approved by project Architect. Manufacturer shall utilize battens in accordance with their published guidelines to minimize tracking distortion and for proper rolling of the shade band material on the tube.
- .11 **SHADE FABRIC**
  - .1 Light Filtering Fabric:
    - .1 Sheerweave **Style 2410** by Phifer
    - .2 Openness Factor: 3%
    - .3 Colour: **P14 Oyster/Pearl Gray**
    - .4 Composition: **36% Fiberglass, 64% Vinyl on Fiberglass**
    - .5 Mesh Weight: **14.1 oz/yd<sup>2</sup>, (478 g/m<sup>2</sup>)**
    - .6 Acoustical Value: **NRC .20 / SAA .21**
    - .7 Fire Classification: CAN/ULC-S 109 (large and small scale)
  - .2 BlackOut Fabric:
    - .1 Elite Pro Vinyl
    - .2 Openness Factor: BO
    - .3 Colour: **Grey**
    - .4 Composition: Vinyl
    - .5 Fire Classification: CAN/ULC-S 109 (large and small scale)

## **2.3 FABRICATION**

- .1 Provide manual shade chain drive window shade, of:
  - .1 Tension activated lifting mechanism with multi-layer concentric constant tension.
  - .2 Lifting mechanism with a memory tension lock.
  - .3 Shade to not require re-tensioning after removal for cleaning.
  - .4 Internally free-floating mechanism along grooved non-corrosive shaft, and reversible for future alterations and maintenance.
- .2 Factory assemble in a one-piece container, closed on all four sides, with top, back, sides and bottom return of plastic injected-molded end caps.
- .3 Lifting mechanism to accommodate tension modules for maximum shade performance. Provide memory lock for tension modules to retain torque.
- .4 Mounting detail as specified for Shade Type 1 and Shade Type 2.

**Part 3 Execution**

**3.1 EXAMINATION**

- .1 Verify existing conditions before starting work.
- .2 Examine substrate and conditions for installation.
- .3 Beginning of installation means acceptance of substrate and project conditions.

**3.2 INSTALLATION**

- .1 Install units and their accessories to manufacturer's instructions.
- .2 Install roller shades level, plumb, square, and true. Allow proper clearances for window operation hardware.
- .3 Install the following items to conceal roller and operating mechanism. Do not use exposed fasteners:
  - .1 Fascia.
  - .2 Closure panels.
  - .3 Endcaps.
- .4 Install headbox, side channels, secured according to manufacturer's instructions.
- .5 Position shades level, plumb, and at proper height relative to adjacent construction. Secure with fasteners recommended by manufacturer.
- .6 Securely screw end plugs to conceal exposed cut aluminum of exterior hem bar.
- .7 Securely anchor units plumb and level, using hardware and accessories to provide smooth operation without binding.

**3.3 INSTALLATION TOLERANCES**

- .1 Maximum variation of gap at window opening perimeter: 6 mm per 2.4 m
- .2 Maximum offset from level: 3 mm.
- .3 Use manufacturer's edge clearance requirements for shades where the width-to-height ratio exceeds 1:3.

**3.4 ADJUSTING**

- .1 Adjust units for smooth operation.
- .2 Adjust shade and shade cloth to hang flat without waves, folds, or distortion.
- .3 Replace any units or components which do not hang properly or operate smoothly.

**3.5 CLEANING**

- .1 Section 01 74 00: Cleaning installed work.
- .2 Touch up damaged finishes and repair minor damage in a manner to eliminate evidence of repair. Remove and replace work that cannot be satisfactorily repaired.
- .3 Clean exposed surfaces and edges/ends, including metal and shade cloth, using non-abrasive materials and methods recommended by manufacturer. Remove and replace work which cannot be satisfactorily cleaned.

**3.6 CLOSEOUT ACTIVITIES**

- .1 Demonstration: Demonstrate operation method and instruct Owner's personnel in the proper operation and maintenance of the window shade assembly.

**END OF SECTION**