Guide Specification

PART 1 – GENERAL 09 50 00 - Ceilings

* 1. SUMMARY

1. All labor to fabricate and deliver the concealed suspended ceiling system along with “Linear Planks” and required accessories
   1. RELATED WORK IN OTHER SECTIONS
2. Finished partitions, wall, and other ceiling structural elements
3. Integrated assembly including but not limited to lighting fixtures, speakers, electrical cables, and related connections
4. Mechanical and/or plumbing services, sprinklers, smoke detectors HVAC systems and related accessories
5. Surface paint finishes and any other acoustical elements outside of this scope
   1. REFERENCES
6. ASTM C423: Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
7. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials
8. CAN/ULC-S102-10: Standard Method of Test for Surface Burning Characteristics of building Materials and Assemblies
9. U.S. Green Building Council, LEED Building Design and Construction, Version 4.1
   1. QUALITY ASSURANCE
10. Manufacturer must have the capacity to manufacture the specified product to meet the qualified defined standard and quality.
11. Any product substitution request including the overall design, product performance, dimensional changes, mounting and finishes must be submitted to all stakeholders including the architect within 10 working days prior to the latest proposal due date
12. Dimensional tolerances and size variation of nominal 1/8” (3mm) will be expected due to the nature of wood products
13. Planks must have anti-microbial finish
14. The manufacturer must be able to certify the wood products with FSC standard, principles, and criteria for forest stewardship with chain of custody certification
15. Planks must be independently certified to conform to California Department of Public health (CDPH) Standard Method v1.2: Private Office and School Classroom.
16. The Planks panel must be tested in accordance with ASTM E84 surface burning characteristics by a third-party acceptable testing facility as a finished composite material with Class A (FS=25 or less – SD=450 or less) performance
17. All specified wood wall and ceiling Planks with acoustical absorption characteristics must be tested in accordance with ASTM C423 and ASTM E795-16 as indicated by an authorized testing organization acceptable to authorities having jurisdiction. Approved testing organization must be independent of the manufacturer
18. The installer shall be experienced in the installation of acoustical wood ceilings
    1. SUBMITTALS
19. Submit product data, including but not limited to:
    1. Manufacturer's product data sheet, acoustical and fire performance test reports, and installation instructions
    2. Material Safety Data Sheets (MSDS) for all materials used
    3. Three (3) sets of samples for each finished product prepared on sample size corresponding to the height and width of the specified Baffle and 11” long.
    4. FSC certificate, CDPH low emitting materials certification, and Declare label
20. Submit a complete set of shop drawing(s), RCP, layout, showing all necessary dimensions, interferences, discrepancies, and notes for the architect approval. Must be subsequently field verified by the installers
    1. DELIVERY, STORAGE, AND HANDLING
21. All crate sizes, weights, unloading options, scheduled delivery and unloading of suspension system in original unopened packages must be coordinated with the single source manufacturer prior to fabrication to be stored in fully enclosed on-site acclimatized storage, protected against damage from moisture, direct sunlight, and other mistreatment
22. Installation will only occur after materials have been acclimatized for a minimum of 72 hours in climate-controlled site condition between 60-90 degrees Fahrenheit (15.5-32 degrees Celsius) inclusive that meet the optimum moisture content and relative humidity requirements of 25% to 55% as per North American Architectural Woodwork Standards
23. Wood products must be handled and installed by persons wearing clean light-weight gloves

* 1. WARRANTIES

1. Manufacturer shall provide a warranty against defects in materials and workmanship for a period of one (1) year, commencing upon substantial completion of the project
2. Installer shall provide a separate warranty covering the installation work for a period of one (1) year, commencing upon substantial completion of the project

PART 2 – PRODUCTS

1. Basis of Design: MCM Acoustical. 6860 Rexwood Road, Mississauga, ON L4V 1L8 Canada. [info@mcmacoustical.com](mailto:info@mcmacoustical.com) 905-670-3733
2. Product: LINEAR PLANKS
3. Veneer Option: Quarter cut, Flat cut, Book match, Slip match, etc.
4. Plank Construction: Natural wood veneer to be laminated on 5/8” fire rated medium density fiberboard (MDF). Standard plank width is 2” (51mm) otherwise width should be specified. Standard length corresponds to standard T-bar spacing of 4’ (1.2m) or 8’ (2.4m) otherwise length should be specified
5. Suspension System: Planks provided loose and installed progressively with provided steel mounting clips into heavy duty T-bar grid. All suspension hardware beyond the mounting clips including the T-bar, hanger wires, rods, braces, and moldings to be provided by others as per ASTM standards

PART 3 – EXECUTION

1. Installation shall not begin until all substrates and the ceiling layout is properly prepared to conform with reflected ceiling plans and approved shop drawings
2. It is the contractor’s responsibility to provide required support to install suspension system without interference with other elements and perimeters
3. The workspace must be fully enclosed to maintain the ambient environment as per section 1.6 of this specification.
4. The suspension system installation and engaging the wood Linear Planks must comply with all local codes and regulations, manufacturer's installation instructions, and approved shop drawings