



CSI | Score

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DIVISION 9 Finishes: SECTION 09 64 2 Wood Gymnasium Flooring
PLAE Score – Maple Wood Flooring

PART 1.0 – GENERAL

1.1 SUMMARY

A. The work of this section includes:

1. PLAE Hard Maple

B. Related Sections: Section(s) related to this section include:

1. Concrete Substrate: Division 3 Concrete Section(s)

2. Membrane Waterproofing: Division 6

1.2 REFERENCES

A. Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title, or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.

B. Deutsches Institut für Normung (DIN):

1. DIN 18032 - Standard Test Method for Vertical Deflection

2. DIN 18032 - Standard Test Method for Area Deflection

3. DIN 18032 - Standard Test Method for Force Reduction

4. DIN 18032 - Standard Test Method for Ball Rebound

5. DIN 18032 - Standard Test Method for Slip Resistance, Force Reduction, Ball Rebound

1.3 SYSTEM DESCRIPTION

A. Performance Requirements: Provide maple flooring system, which has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage, or failure.

1.4 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit product data, including manufacturer's guide specifications product sheet, for specified products.

C. Shop Drawings: Submit shop drawings showing layout, profiles, and product components, including anchorage, accessories, finish colors, patterns, and textures.

D. Digital Samples: Submit one sample of specified system, if requested by architect.

E. Quality Assurance Submittals: Submit the following:



1. Manufacturer's Instructions: Manufacturer's installation instructions.

G. Closeout Submittals: Submit the following:

1. Operation and Maintenance Data: Operation and maintenance data for installed products in accordance with Division 1 Closeout Submittals (Maintenance Data and Operational Data) Section. Include methods for maintaining installed products and precautions against cleaning materials and methods detrimental to finishes and performance.
2. Warranty: Warranty documents specified herein.

1.5 QUALITY ASSURANCE

A. Qualifications:

1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
2. Manufacturer's Qualifications: Manufacturer capable of providing field service representation during construction and approving application method.

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

B. Pre-installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions, manufacturer's instructions, and manufacturer's warranty requirements. Comply with Division 1 Project Management and Coordination (Project Meetings) Section

1.6 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirements Sections.

B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

C. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

D. Storage and Protection: Store materials at temperature and humidity conditions recommended by manufacturer and protect from exposure to harmful weather conditions.

1.7 PROJECT CONDITIONS

A. The wood flooring specified herein shall not be installed until all masonry, painting, plaster, tile, marble and terrazzo work is completed, and overhead mechanical trades and painters have finished in the wood floor areas. The building shall be enclosed and weathertite.

B. The concrete subfloor shall be determined dry by industry standard testing procedures, free of foreign materials and turned over to the installer (Flooring Contractor) broom clean. Moderate room temperature of 65 degrees (18 degrees Celsius) or more shall be maintained a week preceding and throughout the duration of the work. Humidity conditions within the building shall approximate the humidity conditions that will prevail when the building is occupied.



C. Permanent heat, light and ventilation shall be installed and operating during and after installation, maintaining a range of temperature and humidity compatible with the expected low and high moisture content of the flooring. The wood moisture content range is determined by the Flooring Installer based on the facility's mechanical controls and/or geographical location.

D. Flooring must be stored in a dry, well-ventilated area, not in contact with masonry, to acclimate to building conditions and shall be installed at moisture content compatible with the normally expected environmental range of temperature and relative humidity achieved while the facility is occupied.

E. General Contractor shall lock floor area after floor is finished to allow proper curing time. If general contractor or owner requires use of gym after proper curing time, he shall protect the floor by covering with non-marring Kraft paper or red rosin paper with taped joints until acceptance by owner of complete gymnasium floor.

F. Working conditions as described above shall be followed. Variations and substitutions shall be submitted for approval to the architect who shall advise PLAE of the same.

1.8 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Submit, for owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to and not a limitation of, other rights owner may have under contract documents.

Specifier Note: Coordinate paragraph below with manufacturer's warranty requirements.

1. Warranty Period: (Specify term) years commencing on date of substantial completion.

1.9 MAINTENANCE

A. Extra Materials: Deliver to owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 1 Closeout Submittals (Maintenance Materials) Section.

Specifier Note: Revise paragraph below specifying size and percentage as required for project.

1. Quantity: Furnish quantity of maple plank flooring units equal to (specify %) of amount installed.

2. Delivery, Storage, and Protection: Comply with owner's requirements for delivery, storage, and protection of extra materials.

3. Cleaning: Furnish flooring manufacture's approved urethane finish cleaner for initial cleaning and maintenance of the finished floor surface.

PART 2.0 – PROPRIETARY PRODUCTS

2.1 MATERIALS AND ATTRIBUTES

A. Vapor Barrier - 6-mil (0.2mm) polyethylene.

B. Subfloor - Plywood - Factory assembled subfloor panels shall provide nominal 15/32" (12mm) X 4' (1219mm) X 8' (2438mm) UL plywood nailers set 12" on center with 3/8 (10mm)" conical pads attached.



C. Flooring (PLAE Maple)

1. 25/32" (20mm)X2-1/4"(57mm), First, Second or Third Grade, Northern Hard Maple Flooring
2. Optional grades (Specify above or delete) -
 - a. Grades – First Grade, Second Grade, Third Grade

D. Fasteners

1. Flooring - 2" (51mm) barbed cleats or coated staples
2. Subfloor - 1" (25mm) coated staples or nails and PL400 adhesive or equal.

E. Finish Materials - Poloplaz oil modified polyurethane seal and finish.

F. Game Lines - Game line paint shall be compatible with finish

2.2 PLAE Score Flooring

PERFORMANCE	STANDARDS	AVG. TEST RESULTS
Vertical Deflection	DIN 18032	> 2.3mm
Area Deflection	DIN 18032	< 15 percent
Force Reduction	DIN 18032	> 53 percent
Ball Rebound	DIN 18032	> 90 percent

SAFETY CRITERIA

Slip Resistance		
Force Reduction	DIN 18032	0.5 - 0.7
Ball Rebound		

2.2.1 - POLOPLAZ WORLD CLASS GYM FINISH

A. VOC	496 g/L
B. Solid	44.50%
C. % Volatile	N/A
D. Flash Point	103F
E. Dry Time	12 hrs
F. Cure Time	7 days
G. Coverage	500 sf/gal
H. Open Time	15 min
I. Sward Hardness	Pencil 2H
J. Color	Amber

2.2.2 - POLOPLAZ WORLD CLASS GYM SEALER

A. VOC	580 g/L
B. Solids	32%
C. % Volatile	N/A
D. Flash Point	104F
E. Dry Time	8 hours
F. Cure Time	n/a
G. Coverage	500 sf/gal
H. Open Time	15 min
I. Sward Hardness	N/A
J. Color	Amber



2.3 PRODUCT SUBSTITUTIONS

A. Substitutions: No substitutions permitted.

2.4 RELATED MATERIALS

A. Related Materials: Refer to other sections listed in Related Sections paragraph herein for related materials.

2.5 SOURCE QUALITY

A. Source Quality: Obtain maple wood plank flooring from a single manufacturer.

PART 3.0 – EXECUTION

Specifier Note: Revise article below to suit project requirements and specifier's practice.

3.1 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions, and product carton instructions for installation.

3.2 EXAMINATION

A. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.3 PREPARATION

A. Surface Preparation: [Specify applicable product preparation requirements.]

Specifier Note: Coordinate article below with manufacturer's recommended installation details and requirements.

3.4 ERECTION / INSTALLATION / APPLICATION / CONSTRUCTION

A. Recycled Rubber Flooring Installation: Comply with PLAE Installation Manual for installation procedures and techniques for PLAE Achieve Rolls recycled rubber resilient flooring installation.

B. Finish Color/Textures/Patterns: [Specify installation finishes coordinated with finishes specified in Part 2 Products.]

C. Related Products Installation: Refer to other sections listed in Related Sections paragraph herein for related products installation.

3.5 FIELD QUALITY REQUIREMENTS

Specifier Note: Edit paragraph below. Establish number and duration of periodic site visits with owner and manufacturer and specify below. Consult with manufacturer for services required. Coordinate paragraph below with Division 1 Quality Assurance Section and Part 1 Quality Assurance Submittals herein. Delete if manufacturer's field service not required.



3.6 CLEANING

A. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.7 PROTECTION

A. Protection: Protect installed product and finished surfaces from damage during construction.

3.8 SCHEDULES

A. Schedules: [Specify reference to applicable schedules.]

END OF SECTION