



GUIDE SPECIFICATION
Section 09 65 43 - Linoleum Sheet Flooring
[Gerflor DLW Linoleum Collection Sheet Flooring](#)

This is an editable document for preparing project specifications for Gerflor DLW Commercial-Linoleum Sheet Collection Flooring.

How to use this Guide Specification:

This is an “edit-out” document with specification language for several project options. Select appropriate text based on the project requirements and delete (edit-out) all other text.

- Specifier notes are shown in blue like this: [Editor Notes](#)
- Locations where language for Project-specific requirements is to be inserted or selected are indicated like this: [\[insert\]](#) or [\[select text\]](#).
- Finally, remove Editor Notes and any unused optional text in the final version of the specification document.

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PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Gerflor DLW Linoleum Collection sheet flooring and assemblies

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.

- B. Manufacturer Certifications:

1. Provide certification that accurately identifies the Original Equipment Manufacturer (OEM) of flooring furnished for this project including manufacturer's name, address and factory location.
 - a. Suppliers of Private-Label flooring for this project must identify themselves as such and fully disclose the OEM information listed above.
 - b. All "manufacturer" requirements in these must be fulfilled by the OEM, including warranties, certifications, qualifications, product data, test results, environmental requirements, performance data, etc.
2. Provide ISO 9001 certification for the OEM of the specified products.
3. Provide ISO 14001 certification for the OEM of the specified products.
4. Provide ISO 50001 certification for the OEM of the specified products.

- C. Drawings: Showing installation details and locations of borders, patterns, locations of any floor inserts and any seams.

- D. Samples:

1. Manufacturer's colour chart for selection of available floors
2. Product samples:
 - a. Samples to be a minimum of 152 mm × 229 mm (6" × 9")

1.3 INFORMATIONAL SUBMITTALS

- A. Qualification Data:

1. For a qualified resilient flooring Manufacturer.

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2. For a qualified resilient flooring Installer.

1.4 CLOSEOUT SUBMITTALS

- A. Submit three copies of the following:
 1. Manufacturer maintenance instructions.
 2. Manufacturer material warranty.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 1. ISO 9001 Certified.
 2. ISO 14001 Certified.
 3. ISO 50001 Certified.
 4. At least ten years active experience in the manufacture and marketing of commercial resilient flooring.
- B. Installer Qualifications:
 1. At least five years experience in the installation of resilient flooring.
 2. Experience on at least five projects of similar size, type and complexity as this project.
 3. Employer of workers for this Project who are competent in techniques required by manufacturer for resilient flooring installation indicated.
- C. Fire Test Characteristics: Determined through testing of identical products in accordance with the CAN/ULC-S102.2 standard, performed by a qualified testing agency, including the classification required by local authorities having jurisdiction.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store flooring and installation materials in protected dry spaces, with ambient temperatures maintained within range recommended by manufacturer, not less than 13 °C (55 °F) nor more than 29 °C (85 °F).
- B. Store the indoor resilient tiles on a smooth flat surface immediately upon delivery to the Project site.

1.7 FIELD CONDITIONS

- A. Product Installation:

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1. Maintain temperatures during installation within range recommended by manufacturer, but not less than 65° F (18° C) in spaces to receive flooring one week before installation, during installation, and maintain after installation.
 2. After installation, maintain temperatures within range recommended by manufacturer, but not less than 65° F (18° C) or more than 85° F (29° C).
 3. Prohibit traffic during flooring installation.
 4. Refer to the adhesive technical data sheet for appropriate time for traffic after installation.
- B. Install flooring only after other finishing work, including painting and overhead work, has been completed.

1.8 WARRANTY

- A. Manufacturer warrants that flooring products are free from manufacturing defects. Refer to product-specific warranty document for additional detail and warranty period.
1. Material warranty must be direct from the product manufacturer.
 2. Material warranties from separate or third-party insurance providers are not valid.
 3. Material warranties from private label distributors are not valid.
 4. Failures include the following:
 - a. Material manufacturing defects.
 5. Warranty Period:
 - a. For materials: 12 years from the date of Substantial Completion.

1.9 ENVIRONMENT AND INDOOR AIR QUALITY

A. LEED® Documentation:

1. LEED v5 MR Credit, Building Product Disclosure & Optimization, Sourcing of Raw Materials: For products having recycled content, indicate percentage by weight of post-consumer and pre-consumer recycled content.
2. LEED v5 EQ Credits: For adhesives and flooring, including a statement of VOC content, FloorScore® certified.

B. Indoor Air Quality Certification:

1. Flooring products must be FloorScore® Certified.

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- a. FloorScore® certification proves compliance with the volatile organic compound emissions criteria of the California Section 01350 standard.
- b. FloorScore® certification proves compliance with tDhe testing and product requirements of the California Department of Health Services “Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers.”
- c. FloorScore® documentation must include certificate number for specified product.

C. Manufacturer Certification of Environmental Procedures:

Original Equipment Manufacturer’s (OEM) ISO 14001 certification, valid at time of submission

1.10 COORDINATION

- A. Coordinate layout and installation of flooring with other equipment.

PART 2 - PRODUCTS

2.1 COMMERCIAL SHEET LINOLEUM FLOORING

Editor Note: Select specific Gerflor DLW Linoleum Collection design and description where indicated

- A. Basis-of-Design Manufacture: Description: Gerflor DLW Linoleum Collection is a calendared 2.5mm thick, 2 m (6’6”) wide homogeneous linoleum sheet flooring featuring a marble design with a jute backing. The coloured design is throughout the homogeneous construction and made with natural raw materials including linseed oil, natural tree resins, wood flour, limestone, and coloured pigments. The flooring is protected by a factory applied Neocare® polyurethane surface treatment.

[DLW LINO LANDSCAPE [insert design] 2.5mm thick, 6’6’’ (2m) wide homogeneous linoleum sheet flooring featuring a marble design with a jute backing. The flooring is protected by a factory applied Neocare® polyurethane surface treatment.

[DLW LINO URBAN [insert design] 2.5mm thick, 6’6’’ (2m) wide homogeneous linoleum sheet flooring featuring a marble design with a jute backing. The flooring is protected by a factory applied Neocare® polyurethane surface treatment.

[DLW LINO MOON [insert design] 2.5mm thick, 6’6’’ (2m) wide homogeneous linoleum sheet flooring featuring a marble design with a jute backing. The flooring is protected by a factory that applies Neocare® polyurethane surface treatment.

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Editor Note:

Select one of the following 3 paragraphs to address consideration of additional manufactures:

If no substitutions will be accepted:

- B. Substitution Limitations:
 - 1. No substitutions.

If products from other manufacturers will be considered, insert the manufacture's name and the product name and/or model number:

- B. Other Manufactures: Subject to compliance with all the requirements of this specification, provide products by one of the following:
 - 1. **[Insert flooring manufacturer name]: [Insert flooring product name/model].**

If other manufacturers are allowed to submit requests for approval prior to bid:

- B. Substitution Limitations:
 - 1. All other manufacturers: Submit formal substitution request prior to bid in accordance with Section 012500 - "Substitution Procedures".
 - 2. Approval by Architect of other manufacturers does not relieve Contractor of responsibility to provide products which comply with all requirements of this specification.

C. Product Description: Linoleum Sheet Flooring as per ASTM F2034.

- 1. Overall Thickness: Not less than 2.5 mm (0.1 in)
- 2. Wear-Layer Thickness: 1.0 mm (0.04 in)
- 3. Width: 2 m (6'6") wide
- 4. Length: up to 30 m (98.5 ft)
- 5. Backing: Jute
- 6. Applied Finish: Manufacturer's, factory-applied, permanent UV-cured.
 - a. No-Wax finish: Published product literature identifying factory UV-cured applied finish as, "No-Wax-Just clean and rinse"
 - b. Basis-of-Design Product: Gerflor Neocare®

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7. Colour and Pattern: As selected by owner from manufacturer's standard colours and patterns.
 8. Must comply with requirements of ASTM F2034 Type I 'Standard Specifications for Sheet Linoleum Floor Covering Without Backing'.
 9. Bacteriostatic Performance: ISO 22196 compliant.
 10. 100% REACH Compliant.
 11. Seaming Method: Heat welded or net fit
 12. Adhesive Method: as per Gerflor's installation instructions to ensure proper installation and performance.
- D. Performance Criteria:
1. ASTM F2034 Type I 'Standard Specifications for Sheet Linoleum Floor Covering Without Backing'
 - a. Provide test certificate to show compliance with ASTM F2034.

2.2 ACCESSORIES

- A. Trowelable Leveling and Patching Compound: Latex-modified, hydraulic-cement-based moisture insensitive formulation approved by the flooring manufacturer.
- B. Adhesives: Water-resistant type recommended by flooring manufacturer for substrate and conditions indicated.
- C. Basis-of-Design Product: Gerflor Gerfix 313 Linoleum Adhesive
 - a. Coverage Type: Full-spread application or full surface application
 - b. Adhesive compatible with substrates having a relative humidity of up to 90% (as per ASTM F2170).
- D. Basis-of-Design Product: Gerflor Gerfix 196
 - a. Coverage Type: Full-spread application or full surface application.
 - b. Adhesive compatible with substrates having a relative humidity of up to 98% (as per ASTM F2170).
- E. Heat Welding Rod: As supplied by indoor flooring manufacturer. Colour shall blend with resilient flooring colour.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify the Following:

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1. The area in which the indoor resilient tile flooring will be installed is dry, weather-tight and in compliance with specified requirements.
2. Permanent heat, lighting and ventilation systems are installed and operable.
3. Other work, including overhead work, that could cause damage, dirt, dust or otherwise interrupt installation has been completed or suspended.
4. No foreign materials or objects are present on the substrate and that it is clean, porous, and ready for preparation and installation.
5. If required, verify MVER and RH levels as per adhesive specifications. That the moisture vapor emission rate or substrate relative humidity is within the specified ranges if applicable.
6. The concrete slab surface pH level is within the specified range.
7. The concrete slab surface deviation is no greater than 4.8 mm within 3 m (3/16 in within 10 ft) as described in ASTM F710.
8. The concrete slab complies with ACI 302.2R for concrete design including use of a low-permeance vapor barrier directly beneath the concrete subfloor with sealed penetrations.

3.2 PREPARATION

- A. Prepare substrates according to manufacturer's written recommendations to ensure proper adhesion of resilient flooring system.
- B. Concrete Substrates: Prepare according to ASTM F710.
 1. Verify that substrates are dry and free of sealers, curing compounds and other additives. Remove coatings and other substances that are incompatible with adhesives using mechanical methods to create porosity as recommended by manufacturer.
 2. Alkalinity Testing: Proceed with installation if the pH readings are within the specifications given by the adhesive manufacturer.
- C. Moisture Testing: If applicable, perform ASTM F2170 relative humidity test and proceed with installation only after substrates meet the relative humidity limits of the selected adhesive. Or perform ASTM F1869 calcium chloride test and proceed with installation only after substrates are below the maximum moisture-vapor-emission rate of the selected adhesive. Where only one test protocol can be performed, ASTM F2170 is preferred.
- D. Use a trowel-applied, cement-based patching and levelling compound with the same moisture tolerance as the adhesive to fill depressions, holes, and other irregularities in substrate. For dormant cracks and saw cuts refer to manufacturer's installation instructions.
- E. Place flooring and installation materials into spaces where they will be installed at least 48 hours before installation. Install flooring materials only after they have reached the same temperature as space where they are to be installed.

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- F. Mechanically prepare the surface of the concrete slab in accordance with ASTM F710.
- G. Sweep and then vacuum substrates immediately before installation. After cleaning, examine substrate for moisture, alkaline salts, grit, dust or other contamination. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 LINOLEUM SHEET FLOORING INSTALLATION

A. General:

- 1. Comply with linoleum sheet flooring manufacturer's installation instructions.
- 2. Take necessary precautions to minimize noise, odors, dust, and inconvenience during installation.
- 3. Extend flooring into toe spaces, door reveals, closets, and similar openings unless otherwise indicated.

B. Lay out flooring in accordance with manufacturer's recommendations.

3.4 CLEANING AND PROTECTION

A. Perform cleaning 72 hours after completing resilient flooring installation:

- 1. Remove marks from flooring surfaces.
- 2. Sweep and then vacuum flooring.
- 3. Damp-mop flooring with neutral cleaner (pH below 11) to remove soiling.
- 4. Do not use steam cleaners unless approved by the manufacturer.
- 5. Never use high pH strippers or abrasive pads.

B. Protect flooring from abrasions, indentations, and other damage from subsequent operations and placement of equipment, during remainder of construction period.

END OF SECTION