SPEC NOTE: This master guide specification Section is intended for use when specifying prefinished hardwood flooring.

SPEC NOTE: This master guide specification Section has been produced by a Certified Construction Specifier (CCS), in accordance with the standards and practices recommended by The Construction Specifications Institute. It specifically uses the standardized formats MasterFormat™, SectionFormat™ and PageFormat™ to organize the information.

SPEC NOTE: Optional choices are indicated by using square brackets to surround the optional text, such as [\_\_\_\_\_]. Delete any inappropriate choices, and then remove any remaining square brackets prior to final printing. Where selection is indicated with an [OR] statement, select the appropriate paragraph and delete the inappropriate statement. Delete all SPEC NOTEs and [OR] statements prior to final printing.

DISCLAIMER: The manufacturer has reviewed the product information contained in this guide specification. The information is organized and presented to assist the specification writer working on a construction project to select the appropriate products and to save time in writing the project specification Section. The specification writer is responsible for product selection as well as the use and application of this information and should contact the manufacturer to ensure that all options are available and that the associated specification information is valid and correct.

SECTION 09 64 29

WOOD STRIP AND PLANK FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. [Solid] [and] [Engineered] hardwood flooring.

1.02 RELATED SECTIONS

A. Section [\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_]: [Recessed] Concrete subfloor surface.

B. Section [\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_]: Wood subfloor surface.

C. Section [\_\_\_\_\_-\_\_\_\_\_\_\_\_\_\_]: Adjacent floor finish with edging abutting wood flooring.

1.03 REFERENCES

A. ASTM D226-06: Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.

1.04 PRODUCT DATA

A. Submit Product data as specified in Section [01 33 00][01 00 00][\_\_\_\_\_].

B. Product Data: Indicate floor material and finishes.

1.05 SAMPLES

A. Submit samples as specified in Section [01 33 00][01 00 00][\_\_\_\_\_].

B. Samples: duplicate 12" [300 mm] long samples, illustrating board width, finish, color, and sheen.

1.06 CLOSEOUT SUBMITTALS

A. Submit maintenance data for incorporation into maintenance manual as specified in Section [01 78 00][01 00 00][\_\_\_\_\_].

1.07 MOCK-UPS

A. Construct mock-up as specified in Section [01 43 00][01 00 00][\_\_\_\_\_].

B. Construct mock-up minimum [[100][\_\_\_] ft2 [10 m2]] in size, including one inside corner and one outside corner, base and threshold.

C. Allow [24] [\_\_\_] hours for review of mock-up by [Architect][Engineer] before proceeding with work.

D. Accepted mock-up may remain as part of the Work.

1.08 DELIVERY, STORAGE AND HANDLING

A. Refer to Section [01 60 00][01 00 00][\_\_\_\_\_].

B. Store Products in a fully enclosed, ventilated, clean and dry storage space, located in areas of installation for minimum of 24 hours prior to commencing work.

1.09 ENVIRONMENTAL REQUIREMENTS

A. Do not install Products until wet construction work is completed and ambient air at installation space has moisture content stabilized.

B. Maintain ambient temperature of not less than 65 degrees F [18 degrees C] nor more than 78 degrees F [25 degrees C] from 7 days before installation and maintain relative ±45% during same period.

SPEC NOTE: Specify that the temperature and humidity requirements will be maintained by the Contractor until Owner assumes responsibility for the Project.

C. Maintain minimum temperature of 65 degrees F [18 degrees C] and maintain relative humidity ±45% within area of installation until [final acceptance] [Owner occupancy] [Substantial Performance of the Work].

1.10 WARRANTY

A. Submit manufacturer’s extended warranty [in accordance with General Conditions of Contract] [as specified in Section [\_\_\_\_\_]].

SPEC NOTE: Mirage Classic, Mirage Engineered, Mirage Lock and Mirage TruBalance products with DuraMatt®, DuraMatt X® or NanolinxHD® finish are available with a 3-year Light Commercial and 35-year Residential wear finish warranty. Mirage Classic, Mirage Engineered, Mirage Lock and Mirage TruBalance products with Nanolinx® Commercial finish are available with a 5-year Commercial and 35-year Residential use wear finish warranty. All Mirage Products include a structural lifetime limited warranty. Edit to suit project requirements.

B. Manufacturer’s Warranty: a [3-year Light Commercial and 35-year Residential] [5-year Commercial and 35-year Residential use] wear finish warranty and a structural lifetime limited warranty.

1.11 EXTRA MATERIALS

A. Supply extra materials as specified in Section [01 78 00][01 00 00][\_\_\_\_\_].

B. Extra Materials: 65 ft2 [6 m2] or 5%, whichever is the greater, of each Product, color and pattern; clearly marked to identify:

1. Manufacturer’s name,

2. Product’s name,

3. Product color and pattern.

C. Package Products neatly in original containers, to prevent damage.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Manufacturers of prefinished hardwood flooring having Product considered acceptable for use:

1. Mirage Prefinished Flooring [, as distributed by [\_\_\_\_\_]].

2. [\_\_\_\_\_].

3. [\_\_\_\_\_].

B. Substitutions: [no substitutions will be allowed] [refer to [Instructions to Bidders] [and] Section [01 25 00][01 00 00][\_\_\_\_\_]].

SPEC NOTE: Refer to Mirage technical specifications sheets, Mirage Product Chart and maintenance guides for specific information pertaining to individual product features and options. Contact your local Mirage representative for additional information.

2.02 FLOORING MATERIALS

A. Solid Hardwood Flooring: to the following:

1. Species: [Maple] [Red Oak] [White Oak].

2. Grade: [Select & Better] [Exclusive] [Character].

3. Factory Finish: Nanosilica particle composites suspended in UV cured polyurethane; [Semi-gloss] [Cashmere] luster; [Mirage NanolinxHD® ] minimum of 500 taber when tested to ASTM-D-4060 [Mirage Nanolinx® Commercial] minimum of 1500 taber when tested to ASTM-D-4060 [ultra-matte] luster; [Mirage DuraMatt®] minimum of 500 taber when tested to ASTM-D-4060.

SPEC NOTE: Custom stained colors are also available, subject to minimum quantities. Contact your local Mirage representative for specific information.

4. Color: [Natural] [Auburn] [Black Jelly Bean] [Bubble Bath] [Canyon] [Cape Cod] [Carmel] [Carousel] [Charcoal] [Château] [Coffee] [Cold Spring] [Destin] [Driftwood] [Fossil] [Gelato] [Gingerbread] [Golden] [Graphite] [Greystone] [Havana] [Hopscotch] [Hula Hoop] [Isla] [Jump Rope] [Laguna] [Lunar Eclipse] [Mystic Island] [Nevada] [New Haven] [Nordic] [Nougat] [Paddle Ball] [Papyrus] [Park City] [Peppermint] [Platinum] [Praline] [Providence] [Rio] [Rock Cliff] [Rocking Horse] [Roller Coaster] [Sailing Stone] [Sand Castle] [Sandstone] [Savanna] [Seashell] [Sierra] [Snowdrift] [Stardust] [Stillwater] [Treasure] [Tree House] [White Mist] [Custom] [as selected by Consultant].

5. Actual Thickness: 3/4" [19 mm].

6. Board Width: 3-1/4" [83 mm] 4-1/4" [108 mm]. Link to the [Mirage Product Chart](https://www.miragefloors.com/en-us/guides-and-support/)

7. Board Length: Random lengths, ranging from 10" [250 mm] up to a maximum of 76" [1,930 mm] long.

8. Edging: Tongue and groove, Micro-V bevel on 4 sides.

9. Product and Manufacturer’s Name: Mirage Classic by Boa-Franc G.P.

[OR]

SPEC NOTE: 3-5/16" width Engineered Boards are 3/8" [10 mm] thick with a 4 mm species wear layer, feature 5-ply plywood base and board lengths are from 14" [355 mm] up to a maximum of 46" [1,168 mm] long. 5"E width Engineered Boards are 1/2" [13 mm] thick, feature 7-ply plywood base with a 4 mm species wear layer and board lengths are from 17" [432 mm] up to a maximum of 69" [1,752 mm] long. 5" and 6-1/2" width Engineered Boards are 1/2" [13 mm] thick, feature 7-ply plywood base with a 4 mm species wear layer and board lengths are from 20" [508 mm] up to a maximum of 82" [2,083 mm] long. 7" width Engineered Boards are 1/2" [13 mm] thick, feature 7-ply plywood base with a 4 mm species wear layer and board lengths are from 20" [508 mm] up to a maximum of 82" [2,083 mm] long.

1. Engineered Hardwood Flooring: dry sawn hardwood bonded with “Baltic Birch”to a [5-ply, 7-ply & 11-ply] plywood base with Perfect Score Technology; to the following:

1. Species: [Maple] [Red Oak] [Sapele] [Walnut] [White Oak].

2. Grade: [Select & Better] [Exclusive] [Character].

3. Factory Finish: Nanosilica particle composites suspended in UV cured polyurethane; [Semi-gloss] [Cashmere] luster; [Mirage NanolinxHD® ] minimum of 500 taber when tested to ASTM-D-4060 [Mirage Nanolinx® Commercial] minimum of 1500 taber when tested to ASTM-D-4060 [ultra-matte] luster; [Mirage DuraMatt®] minimum of 500 taber when tested to ASTM-D-4060.

SPEC NOTE: Custom stained colors are also available, subject to minimum quantities. Contact your local Mirage representative for specific information.

4. Color: [Natural] [Aspen] [Auburn] [Black Jelly Bean] [Bubble Bath] [Canyon] [Cape Cod] [Carmel] [Carousel] [Charcoal] [Château] [Coffee] [Cold Spring] [Destin] [Driftwood] [Florence] [Fossil] [Gelato] [Gingerbread] [Golden] [Graphite] [Greystone] [Havana] [Hermosa] [Hopscotch] [Hula Hoop] [Isla] [Jump Rope] [Key Largo] [Laguna] [Lunar Eclipse] [Maui] [Morro Bay] [Mystic Island] [Nevada] [New Haven] [Nordic] [Nougat] [Paddle Ball] [Papyrus] [Park City] [Peppermint] [Platinum] [Praline] [Providence] [Rio] [Rock Cliff] [Rocking Horse] [Roller Coaster] [Sailing Stone] [Sand Castle] [Sandstone] [Savanna] [Seashell] [Sierra] [Snowdrift] [Stillwater] [Treasure] [Tree House] [White Mist] [Custom] [as selected by Consultant].

5. Actual Thickness: 3/8" [10 mm] 1/2" [13 mm].

6. Board Width: 3-5/16" [84 mm] 5" [127 mm] 6-1/2" [165 mm] 7" [178 mm].

 Link to the [Mirage Product Chart](https://www.miragefloors.com/en-us/guides-and-support/)

7. Board Length: 6 assorted lengths per box, ranging from [14" [355 mm] up to a maximum of 46" [1,168 mm]] [17" [432 mm] up to a maximum of 69" [1,752 mm]] [20" [508 mm] up to a maximum of 82" [2,083 mm]] long.

8. Edging: Tongue and groove, Micro-V bevel on 4 sides.

9. Product and Manufacturer’s Name: Mirage Engineered by Boa-Franc G.P.

 [OR]

A. Glueless Engineered Hardwood Flooring (Lock): dry sawn hardwood bonded with high density fiber [HDF] core and RightlocTM locking system [Välinge System] and backing veneer to the following:

1. Species: [Maple] [Red Oak] [White Oak].

2. Grade: [Exclusive] [Character].

3. Factory Finish: Nanosilica particle composites suspended in UV cured polyurethane; [Semi-gloss] [Cashmere] luster; [Mirage NanolinxHD® ] minimum of 500 taber when tested to ASTM-D-4060 [ultra-matte] luster; [Mirage DuraMatt®] minimum of 500 taber when tested to ASTM-D-4060.

SPEC NOTE: Custom stained colors are also available, subject to minimum quantities. Contact your local Mirage representative for specific information.

4. Color: [Natural] [Auburn] [Black Jelly Bean] [Bubble Bath] [Canyon] [Cape Cod] [Carmel] [Carousel] [Charcoal] [Château] [Coffee] [Cold Spring] [Destin] [Driftwood] [Gelato] [Gingerbread] [Golden] [Graphite] [Greystone] [Havana] [Hopscotch] [Hula Hoop] [Laguna] [Jupe Rope] [Lunar Eclipse] [Mystic Island] [Nevada] [New Haven] [Nordic] [Nougat] [Paddle Ball] [Papyrus] [Park City] [Peppermint] [Platinum] [Praline] [Providence] [Rio] [Rock Cliff] [Rocking Horse] [Roller Coaster] [Sailing Stone] [Sand Castle] [Sandstone] [Savanna] [Sierra] [Snowdrift] [Stardust] [Stillwater] [Treasure] [Tree House] [White Mist] [Custom] [as selected by Consultant].

5. Actual Thickness: 7/16" [11 mm].

6. Board Width: 4-5/16" [109 mm] 5" [125 mm] 6-1/2" [163 mm]. Link to the [Mirage Product Chart](https://www.miragefloors.com/en-us/guides-and-support/)

7. Board Length: 6 assorted lengths per box, ranging from [14" [355 mm] up to a maximum of 46" [1,168 mm]] [17" [422 mm] up to a maximum of 69" [1,752 mm]] [22" [559 mm] up to a maximum of 69" [1,752 mm]] long.

8. Edging: Tongue and groove locking system, Micro-V bevel on 4 sides.

9. Product and Manufacturer’s Name: Mirage Lock by Boa-Franc G.P.

[OR]

1. TRUBALANCE Engineered Hardwood Flooring: dry sawn hardwood bonded with quarter sawn SPF core layer and backing veneer to the following:

1. Species: [Hickory] [Maple] [Red Oak] [Walnut] [White Oak].

2. Grade: [Exclusive] [Character].

3. Factory Finish: Nanosilica particle composites suspended in UV cured polyurethane; [Cashmere] luster; [Mirage NanolinxHD® ] minimum of 500 taber when tested to ASTM-D-4060 [Mirage Nanolinx® Commercial] minimum of 1500 taber when tested to ASTM-D-4060 [ultra-matte] luster; [Mirage DuraMatt®] minimum of 500 taber when tested to ASTM-D-4060.

SPEC NOTE: Custom stained colors are also available, subject to minimum quantities. Contact your local Mirage representative for specific information.

4. Color: [Natural] [Auburn] [Black Jelly Bean] [Bubble Bath] [Canyon] [Cape Cod] [Carmel] [Carousel] [Charcoal] [Château] [Clay Marbles] [Coffee] [Cold Spring] [Desert Rose] [Destin] [Driftwood] [Gelato] [Gingerbread] [Golden] [Graphite] [Greystone] [Havana] [Hopscotch] [Hula Hoop] [Isla] [Jump Rope] [Laguna] [Lunar Eclipse] [Mystic Island] [Nevada] [New Haven] [Nordic] [Nougat] [Paddle Ball] [Papyrus] [Park City] [Peppermint] [Platinum] [Praline] [Providence] [Rio] [Rocking Horse] [Rock Cliff] [Roller Coaster] [Sailing Stone] [Sandstone] [Sand Castle] [Sandy Reef] [Savanna] [Seashell] [Sierra] [Snowdrift] [Stardust] [Stillwater] [Treasure] [Tree House] [White Mist] [Custom] [as selected by Consultant].

5. Actual Thickness: 3/4” [19 mm].

6. Board Width: 5" [127 mm] 6-1/2" [165 mm] 7-3/4” [197 mm]. Link to the [Mirage Product Chart](https://www.miragefloors.com/en-us/guides-and-support/)

7. Board Length: 6 assorted lengths per box, ranging from [20" [511 mm] up to a maximum of 82" [2,083 mm]] [23" [584 mm] up to a maximum of 82" [2,083 mm]] long.

8. Edging: Tongue and groove, Micro-V bevel on 4 sides.

9. Product and Manufacturer’s Name: Mirage TruBalance by Boa-Franc G.P.

1. TRUBALANCE Engineered Hardwood Flooring: Rift & Quartered sawn bonded with quarter sawn SPF core layer and backing veneer to the following:
2. Species: [White Oak].
3. Grade: [Exclusive] [Character].
4. Factory Finish: Nanosilica particle composites suspended in UV cured polyurethane; [ultra-matte] luster; [Mirage DuraMatt®] minimum of 500 taber when tested to ASTM-D-4060.

SPEC NOTE: Custom stained colors are also available, subject to minimum quantities. Contact your local Mirage representative for specific information.

1. Color: [Natural] [Bubble Bath] [Carousel] [Hula Hoop] [Treasure] [Stardust] [Sailing Stone] [Custom] [as selected by Consultant].

5. Actual Thickness: 3/4” [19 mm].

6. Board Width: 5" [127 mm] 6-1/2" [165 mm]. Link to the [Mirage Product Chart](https://www.miragefloors.com/en-us/guides-and-support/)

7. Board Length: 6 assorted lengths per box, ranging from from [20" [508 mm] up to a maximum of 82" [2,083 mm]] long.

8. Edging: Tongue and groove, Micro-V bevel on 4 sides.

9. Product and Manufacturer’s Name: Mirage TruBalance by Boa-Franc G.P.

2.03 ACCESSORIES

A. Subfloor Filler: Premix latex cementitious type.

SPEC NOTE: Mirage Classic: use a moisture barrier for all solid hardwood flooring applications.

B. Moisture Barrier: asphalt saturated felt, to ASTM D226, 15 lb. organic felt.

SPEC NOTE: Mirage Lock: Glueless installation requires Ulti-Mat membrane distributes by Mirage or any other waterproof acoustic membrane recommended by Mirage.

B. [Waterproof Acoustic Membrane: 3/16” [5 mm] or 1/4"[6 mm] acoustic cork membrane]

SPEC NOTE: Mirage Engineered: Consider the benefits of specifying an acoustical underlayment between the subfloor and the floor. Otherwise, delete the following paragraph.

B. [Acoustical Underlayment: [Cork] [Acoustic felt] [Polyurethane liquid membrane].]

C. Hardwood Trim: [Round Stair Nosing] [Square Stair Nosing] [Reducer] [T-molding] [Quarter Round] [Threshold] [Carpet Molding]; matching wood species, color and finish as flooring.

D. Adhesive: Moisture cure type, as recommended by flooring manufacturer

SPEC NOTE: Refer to Mirage recommended tools and fasteners chart for information pertaining to nail and staple fasteners.

E. Nails: purpose designed barbed nails for power nailing, [\_\_\_\_\_] long.

F. Staples: purpose designed staples for power stapling, [\_\_\_\_\_] long.

G. Adhesive: as recommended by flooring manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify field conditions are ready to receive work.

SPEC NOTE: Concrete subfloors may have been recessed to a depth required to allow flooring to be flush with finish floor level. Coordinate this requirement with the relevant concrete Section. Mirage Classic and Mirage Engineered floors flatness tolerance is 3/16" per 10’ [5 mm per 3 m]; Mirage Lock tolerance flatness is 3/32" per 7’ [2 mm per 2 m].

B. Verify [concrete subfloor surface] [wood subfloor is properly secured] is smooth and flat to plus or minus [3/16" per 10’ [5 mm per 3 m]] [3/32" per 7’ [2 mm per 2 m]], free of oil, grease, dust, and foreign substance.

C. [Verify concrete subfloor is at least 30 days old, and has a maximum moisture rate of 3 lbs/1,000 ft2/24 hours [1.4 kg/90 m2/24 hours], according to hardwood flooring manufacturer’s recommendations[calcium chloride test]].

D. [Verify wood subfloor has a moisture content not exceeding 12%, and is within 4% of the hardwood flooring’s moisture content.]

E. Beginning of installation implies acceptance of existing conditions.

3.02 PREPARATION

A. Vacuum clean substrate.

B. Use subfloor filler to patch cracks, honeycomb, small holes, and for minor leveling.

SPEC NOTE: A moisture barrier is required for all solid hardwood flooring applications.

C. [Apply moisture barrier over subfloor, set in adhesive with butted edges and offset joints.]

SPEC NOTE: Mirage Engineered hardwood flooring products may require the use of a complete moisture-proofing system (sealer) over a concrete slab-on-grade when other efficient vapor sealing has not been already provided below the slab-on-grade.

D. [Apply moisture-proofing system over concrete slab-on-grade, in accordance with manufacturer’s recommendations.]

3.03 INSTALLATION

SPEC NOTE: Follow manufacturer’s installation instructions supplied in carton of material or check online at [www.miragefloors.com](http://www.miragefloors.com). Select one of the following paragraphs. Adhesive applications are commonly used over concrete slabs. Nailed or stapled down applications require either a 5/8" [16 mm] thick plywood or 23/32" [19 mm] thick OSB subfloor, securely screwed to structure. Always follow Regional Building Code.

A. [Apply adhesive to prepare subfloor in accordance with manufacturer’s instructions. Ensure full adhesive contact to substrate. Conform to manufacturer’s installation guidelines.]

[OR]

A. [Machine nail or staple flooring boards to subfloor in accordance with manufacturer’s instructions. Conform to manufacturer’s installation guidelines.]

[OR]

A. [Assemble Mirage Lock boards together using RightlocTM system in accordance with manufacturer’s instructions. Conform to manufacturer’s installation guidelines.]

SPEC NOTE: Solid hardwood flooring installed over a wood subfloor must be laid perpendicular to the direction of the wood floor joists. Select desired pattern.

B. Lay flooring parallel to walls [and perpendicular or at a 45-degree angle to the direction of the floor joists], to a [herringbone] [basket] [cube] [brick] pattern.

C. Set flooring boards flush and tight.

D. Provide [divider] [reducer] boards [at centerline of door openings] [and] [where flooring terminates with other floor areas].

SPEC NOTE: Specify a 1/4" [6 mm] expansion space for Mirage Engineered hardwood floor applications, and a 1/2" [12 mm] expansion space for Mirage Classic and Mirage Lock hardwood floor applications.

E. Provide [1/4" [6 mm]] [1/2" [12 mm]] expansion space at walls and other interruptions.

3.04 CLEANING

A. Clean flooring surfaces in accordance with manufacturer’s printed instructions. Refer to Section [01 74 00][01 00 00][\_\_\_\_\_].

3.05 PROTECTION

A. Protect flooring until [final acceptance] [Owner occupancy] [Substantial Completion].

SPEC NOTE: Include the following Paragraph for adhesive applications.

B. Prohibit traffic on floor for 24 hours after installation.

END OF SECTION