

Moisture Content, Acclimation and Installation Guidelines for Wood Flooring

Always read and follow the Wood Flooring Vendor Installation Instructions.

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***** Note - the following are General Guidelines for all wood flooring: HVAC system should be operational for 14 days prior to installation maintaining consistent temperature between 60-75 degrees F and relative humidity between 35-55%. Concrete sub floors should be at least 60 days old. Wood flooring to be installed should be placed in the room to be installed in - only place wood flooring into homes that are dry and "weather tight" with windows and doors installed. All "wet" work such as plastering, wallpaper, drywall, painting, plumbing or masonry should be complete and thoroughly dry. Do not install wood flooring over particle board, wafer board, pressed wood or fiberboard.**

VENDOR Product Name Customer Service Number	Installation methods	Concrete Sub floor Maximum Moisture Content Limits	Wood Sub floor Maximum Moisture Content Limits	Acclimation Requirements - Recommendations	Adhesive or Fastener Requirements	Installation Grade Requirements: Above, On or Below Grade	Level and Flatness Requirements	Moisture Barrier and Underlayment Requirements
Bruce 3/4" Solid Plank and Strip 800 233 3823	Nail down	N/A Do not install over concrete sub floor	<= 13% (and no more than 4% moisture difference between wood and sub floor (3% for plank))	Wood flooring must be stored in the room to be installed in for as long as necessary to meet minimum installation requirements for moisture content; moisture content in wood flooring should match moisture content of other wood items in the room - must be within 4% of sub floor moisture content - leave 4" air space under cartons	Use 2" glue coated staple or cleat. If hand nailed (blind), use 6d coated or cut nails	On or above grade only. Do not install in full bathrooms.	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: 6-8 mil poly overlapped 6" and taped to reduce moisture Underlayment: 15# asphalt saturated felt paper (tarpaper)

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Bruce "Coastal Woodlands" 3/8" and 1/2" Engineered Floating Wood 800 233 3823	Glue down or Floating	Calcium Chloride test: 3# in 1000 sq.ft. Tramex Concrete Moisture Encounter meter: 4.5 on upper Scale	<= 13% (and no more than 4% moisture difference between wood and sub floor (3% for plank))	Store the wood flooring in the room to be installed leaving a 4" space under the cartons. Do NOT open cartons until ready to install	For Floating installation: Use EverSeal joint adhesive to glue the joints For Glue Down installation: Use Equalizer flooring adhesive and EverSeal joint adhesive	Okay for all 3 grades. Do not install in full bathrooms.	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: 6-8 mil poly overlapped 6" and taped to reduce moisture Underlayment: Use "Two in One" underlayment.

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Bruce 1/4" or 3/8" Engineered Wood 800 233 3823	Staple or Glue down (Do not staple down Pecan Products)	CC: 3# in 1000 sq.ft. Tramex: 4.5 on upper Scale	<= 13% (and no more than 4% moisture difference between wood and sub floor)	No acclimation required for engineered products	For Staple down: Use 1" minimum glue coated staples For Glue down: Use Bruce Everbond adhesive	Okay for all 3 grades	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: 6-8 mil poly overlapped 6" and taped to reduce moisture Underlayment over wood sub floor: Use 6 mil poly.

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Bruce Natural Reflections Solid Strip 800 233 3823	Staple or Glue down	CC: 3# in 1000 sq.ft. Tramex: 4.5 on upper Scale	<= 13% (and no more than 4% moisture difference between wood and sub floor (3% for plank))	Wood flooring must be stored in the room to be installed in for as long as necessary to meet minimum installation requirements for moisture content; moisture content in wood flooring should match moisture content of other wood items in the room - must be within 4% of sub floor moisture content - leave 4" air space under cartons	For Staple down: Use 1" minimum glue coated staples For Glue down: Use Bruce Equalizer adhesive	On or above grade only	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: 6-8 mil poly overlapped 6" and taped to reduce moisture Underlayment over wood sub floor: Use "Vapor Lock" moisture retardant and overlap joints 6" - tape with duct tape.

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Bruce Naturally Simple Locking Hardwood 800 233 3823	Edge - Lock	CC: 5# in 1000 sq.ft. Tramex: 5.5 on upper Scale	<= 14% (and no more than 4% moisture difference between wood and sub floor (3% for plank))	Store wood flooring in the room to be installed leaving 4" air space under cartons - DO NOT OPEN CARTONS	Use PVA wood glue only when installing under a door jamb	Okay for all 3 grades. Do not install in full bathrooms or powder rooms.	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: use 6-8 mil poly overlapped 6" and taped to reduce moisture Underlayment over wood or concrete sub floor: Use Armstrong "Two in One" Underlayment butt joints and only tape if over concrete sub floor.

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BR-111 3/4" Solid Hardwood 877 356 2687 x1	Nail or Staple Down	N/A Do not install over concrete sub floor	<= 12% (and no more than 4% moisture difference between wood and sub floor)	Open top and both ends of cartons, elevate cartons 4" above sub floor and store wood flooring in the room to be installed for a minimum of 5 days	use 2" Flooring staples or cleats	On or above grade only on wood sub floor	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: use 6 mil poly with joints overlapped and taped Underlayment over wood sub floor: Use 15# felt (and 6 mil poly if needed for additional moisture barrier)

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BR-111 5/16" or 7/16" Solid Hardwood 877 356 2687 x1	Staple or Glue down	CC: 3# in 1000 sq.ft. Tramex: 4.5 on upper Scale	<= 12% (and no more than 4% moisture difference between wood and sub floor)	Open top and both ends of cartons, elevate cartons 4" above sub floor and store wood flooring in the room to be installed for a minimum of 10 days	for Nail Down: on 5/16" Solid - use 1" min glue coated staples on 7/16" Solid - use 1 1/8" min glue coated staples. For Glue down: use Moisture Cured Urethane only such as SIKA Bond T55 - do NOT use water based adhesive	On or above grade only on wood sub floor	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: use minimum 6 mil Poly Film - overlap joints and tape Underlayment over wood sub floor: use min 6 mil poly film - overlap joints 18" and tape; use 15# felt

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BR-111 5/16" Engineered Wood 877 356 2687 x1	Glue down or Floating	CC: 3# in 1000 sq.ft. Tramex: 4.5 on upper Scale	<= 12% (and no more than 4% moisture difference between wood and sub floor)	Open top and both ends of cartons, elevate cartons 4" above sub floor and store wood flooring in the room to be installed for a minimum of 3 days	For Glue Down: use Moisture Cured Urethane <u>only</u> such as SIKA Bond T55 - do NOT use water based adhesive	Okay for all 3 grades	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: use min 6 mil Poly Film- overlap joints and tape Underlayment: for Floating floor over concrete or wood sub floor - use 8 mil poly- overlap joints 18" and tape - cover with 1/8" foam padding - butt joints and tape

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BR-111 Casanova 3/8" Engineered Wood 877 356 2687 x1	Staple, Glue down or Floating	CC: 3# in 1000 sq.ft. Tramex: 4.5 on upper Scale	<= 12% (and no more than 4% moisture difference between wood and sub floor)	Open top and both ends of cartons, elevate cartons 4" above sub floor and store wood flooring in the room to be installed for a minimum of 5 days	For Staple: use 1 1/4" staple For Glue Down: <u>Use Moisture Cured Urethane</u> <u>only</u> such as SIKA Bond T55 - <u>do not use water based adhesive</u>	Okay for all 3 grades	3/16" in 10' 1/8" in 6'	Moisture Barrier under wood sub floor: use min 6 mil Poly Film- overlap joints and tape Underlayment for Floating floor over concrete or wood sub floor - use Armstrong 2 in 1 foam - butt joints and tape Underlayment for Staple Down application: use 6 mil poly- overlap joints 18" and tape

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Mohawk Solid Plank and Strip 888 666 4295	Nail down	N/A Do not install over concrete sub floor	<= 12%	Acclimate the wood flooring in the room to be installed in for 72 hours minimum by opening the cartons , but not removing the flooring materials from the cartons.	use 2" barbed flooring cleat, or 7d or 8d flooring nail or 2" 15 gauge staples with 1/2" crown	On or above grade only on wood sub floor	3/16" in 10' 1/8" in 6'	Moisture Barrier: for crawlspaces - overlap and tape 6 mil poly to cover all earth in crawlspace Underlayment: use 15# felt over sub floor and under wood flooring

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Mohawk Engineered Plank or Strip 888 666 4295	Nail or Staple Down; or Glue down	CC: 3# in 1000 sq.ft. Tramex: 5.0 on upper Scale	<= 14%	Acclimate the wood flooring in the room to be installed in for 48 hours minimum by opening the cartons , but not removing the flooring materials from the cartons.	for Nail Down: use 1 1/2" power cleat for Staple Down: use a 1" staple for Glue down: use Mohawk Urethane wood flooring adhesive	okay for all 3 grades	3/16" in 10' 1/8" in 6'	Moisture Barrier: for crawlspaces - overlap and tape 6 mil poly to cover all earth in crawlspace for concrete sub floor: use 6 mil poly under wood flooring- overlap seams 12" and tape. Underlayment: use Silent Choice over wood sub floor and Silent Choice MG over concrete sub floor

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Mohawk Hardwood DuraLoc LS Longstrip 888 666 4295	Edge - Lock or Glue Down	CC: 3# in 1000 sq.ft. Tramex: 5.0 on upper Scale	<= 14%	No acclimation required. Do NOT open cartons. Store cartons in room to be installed in.	for Glue Down installation: use Mohawk Hardwood Flooring Adhesive	okay for all 3 grades	3/16" in 10' 1/8" in 6'	Moisture Barrier: for crawlspaces - overlap and tape 6 mil poly to cover all earth in crawlspace for concrete sub floor: use 6 mil poly under wood flooring- overlap seams 12" and tape. Underlayment: use Silent Choice over wood sub floor and Silent Choice MG over concrete sub floor

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Pergo Wood 800 333 3746	Staple, Glue down or Floating	CC: 3# in 1000 sq.ft. Tramex: 4.0 on upper Scale	<= 14%	unopened cartons in room to be installed in for at least 48 hours (96 hrs. if very dry or very humid climate)	<p>for Staple installation: use nylon coated 3/16" to 1/4" crown, 1" staples</p> <p>for Glue Down installation: use <u>Moisture cured Polyurethane or Polymeric Resin Adhesive</u> (use of 100# roller recommended)</p> <p>for Floating installation: use PVA glue</p>	Okay for all 3 grades	3/16" in 10'	<p>Moisture Barrier under wood sub floor: use 6 mil poly overlapped 8"</p> <p>Underlayment:</p> <p><u>Floating installation over concrete sub floor:</u> use 6 mil poly with joints overlapped 6", then foam underlayment</p> <p><u>Floating installation over wood sub floor:</u> use foam underlayment</p> <p><u>Staple down installation over wood sub floor:</u> use red rosin paper</p>

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Anderson Engineered Wood Flooring 864-833-6250 x156	Staple, Glue down or Floating	CC: 3# in 1000 sq.ft. Tramex: 4.5 on upper Scale	<= 13% (and no more than 4% moisture difference between wood and sub floor)		For Glue down: use Parabond Plank and Parquet adhesive (or A.F.B. "Duck Glue" - Do Not Roll Duck Glue) For Staple Down: for 3/8" products - use 1" min staple for 1/2" products - use 1 1/4" min staple	Okay for all 3 grades	3/16" in 10' 1/8" in 6'	Moisture Barrier: use minimum 6 mil Poly Film and cover all of the earth in the crawl space Underlayment: Staple down over wood sub floor -use 15# felt Floating over concrete sub floor: use 6 mil poly overlap joints 4" and tape with clear plastic tape

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Anderson Solid Wood Flooring 864-833-6250 x156	Nail / Staple down	N/A Do not install over concrete sub floor	<= 12% (moisture difference between wood and sub floor <= 3%)	Open cartons, elevate product 4" above sub floor and acclimate product in dry room to be installed in for at least 72 hours before installation	use minimum 2" staple or barbed cleat	On or above grade only	3/16" in 10' 1/8" in 6'	Moisture Barrier: use minimum 6 mil Poly Film and cover all of the earth in the crawl space Underlayment: Staple down over wood sub floor -use 15# felt Floating over concrete sub floor: use 6 mil poly overlap joints 4" and tape with clear plastic tape

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Bambo Bamboo EZ-Lock Wood Flooring 858 618 4789 x100	Glue-down or Floating	CC: 3# in 1000 sq.ft. Tramex: 4.5 on upper Scale	<= 12% (moisture difference between wood and sub floor <= 4%)	Open cartons, remove packaging, cross-stack planks for air circulation for 5 days prior to installation	For Glue down: use Taylor TUFF-LOK #2071 or Bostik's Best for Floating installation:	okay for all 3 grades	3/16" in 10' 1/8" in 6'	Moisture Barrier: Use minimum 6 mil Poly Film - overlap 6" Underlayment for floating floor: use min 1/8" foam underlayment - butt joints and tape with duct or polyethylene tape

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Bambo Bamboo Solid-Engineered Wood Flooring 858 618 4789 x100	Nail or staple	N/A Do not install over concrete sub floor	<= 12% (moisture difference between wood and sub floor <= 4%)	Open cartons, remove packaging, cross-stack planks for air circulation for 5 days prior to installation	use minimum 1 1/2" to 2" nail or staple	On or above grade only. Do not install in full bathrooms.	3/16" in 10' 1/8" in 6'	Moisture Barrier in crawlspace under wood sub floor: use 6-8 mil poly overlapped 6" and taped Underlayment over wood or concrete sub floor: Use Armstrong "Two in One" Underlayment butt joints and <u>only</u> tape if over concrete sub floor.

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Cryntel "Surface Source" Engineered Oakwood Plank 800-766-1043	Glue down	CC: 3# in 1000 sq.ft. Tramex: 4.5 on upper Scale If moisture is present, install sheet vinyl flooring using the "full glue down" installation method first as a moisture barrier	<= 10%	Acclimate wood flooring in room to be installed in for 48 hours	Use Parabond "Plank and Parquet" Adhesive	okay for all 3 grades Do not install in bathrooms or laundry rooms.	1/4" in 10'	Moisture Barrier: <u>on Wood sub floor</u> - use min 6 mil poly in crawlspace - overlap joints and cover all earth <u>on Concrete sub floor</u> - use fully adhered sheet vinyl direct glued to sub floor; then install Oakwood wood floor on top of vinyl

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Cryntel Ultimate Kempas / Merbau Solid Wood Flooring 800-766-1043	Nail, Glue Down or Floating	N/A Do not install over concrete sub floor	<= 10%	Acclimate wood flooring in room to be installed in for 5 days with cartons opened, planks removed and flooring criss-cross stacked at least 4" above sub floor	for Nail Down: use for Glue Down: use Parabond Millenium 4002 ONLY for Floating: use White Parabond or equivalent PVAC glue	On or above grade only. Do not install in bathrooms or laundry rooms.	3/16" in 10'	Moisture Barrier: use min 6 mil poly in crawlspace - overlap joints and cover all earth Underlayment: for Floating Floor - use 6 mil poly on top of sub floor, then 1/8" foam

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Cryntel Advantage Bamboo Plank Flooring 800-766-1043	Nail, Glue Down or Floating	Tramex: moisture content reading must be <= 4.5 on upper scale Do NOT install directly over concrete sub floors.	<= 10%	Acclimate wood flooring in room to be installed in for 5 days with cartons opened, planks removed and flooring criss-cross stacked at least 4" above sub floor	For Nail Down: use 6d or 8d flooring nails for Glue Down: use Parabond Urethane adhesive (Parabond Millenium 4002) for Floating: use PVAC (white) glue to edge-glue	On or above grade only. Do not install in bathrooms or laundry rooms. Do NOT install directly over concrete sub floors.	3/16" in 10'	Moisture Barrier: on Wood sub floor - use min 6 mil poly in crawlspace - overlap joints and cover all earth on Concrete sub floor - use fully adhered sheet vinyl direct glued to sub floor; then install Advantage wood floor on top of vinyl Underlayment: for Floating Floor installation over concrete or wood sub floors - use 6 mil poly on top of sub floor, then 1/8" foam

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US Floors Natural Bamboo 800 250 6690	Nail or Glue Down; Floating if >= 6" wide planks	CC: 3# in 1000 sq.ft. Moisture test must be performed and recorded for Warranty	<= 12% (wood flooring and sub floor must be within 3% of each other)	Unpack cartons and stack flooring in small piles to acclimate in room to be installed in for at least 48 hours	For Nail Down: use 2" 16 ga. flooring nail for Glue Down: use Urethane based adhesive only (like Bostik's Best or Bamboo Urethane Adhesive (available SOS) for Floating: use PVAC (white) glue to edge-glue	On or above grade only. Do not install in bathrooms or laundry rooms.	3/16" in 10' 1/8" in 6'	Underlayment: for Floating Floor - use 6 mil poly on top of sub floor, then 1/8" foam on top of poly film

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US Floors Cork Flooring 800 250 6690	Edge - Lock	CC: 3# in 1000 sq.ft. <u>Moisture test must be performed and recorded for Warranty</u>	<= 14%	Unpack cartons and stack flooring in small piles to acclimate in room to be installed in for at least 72 hours	N/A - Edge-Lock	okay for all 3 grades Do not install in bathrooms or laundry rooms.	1/8" in 10'	Moisture Barrier: Cover all crawlspace earth with 6 mil poly film overlapped and taped Underlayment over concrete: use 6 mil poly film - overlap seams 8" and tape

CC:
Calcium Chloride Test
Tramex:
Tramex Concrete Moisture Encounter Meter