Product Specifications

Description:	7 ply laminated birch wood panel 6 exterior grade glue lines Solid core – no voids
Size:	4' x 5'
Thickness:	9mm (3/8")
Weight:	1.5lb/square foot
Packaging:	44 panels per pallet
Grade:	EG/LWP (exterior grade / laminated wood panel)
Nail Pull Through:	647lb (ASTM D1037)
Flexural Strength:	14,375psi (ASTM C1185)
Fastener Holding Power:	520lb (ASTM D1037)
Light Commercial Floor Rated (ASTM C627)	

Lifetime Warranty
Contact Halex or the distributor for details.

The Halex Corporation is a leading global floor supply manufacturer headquartered in Pomona, California.

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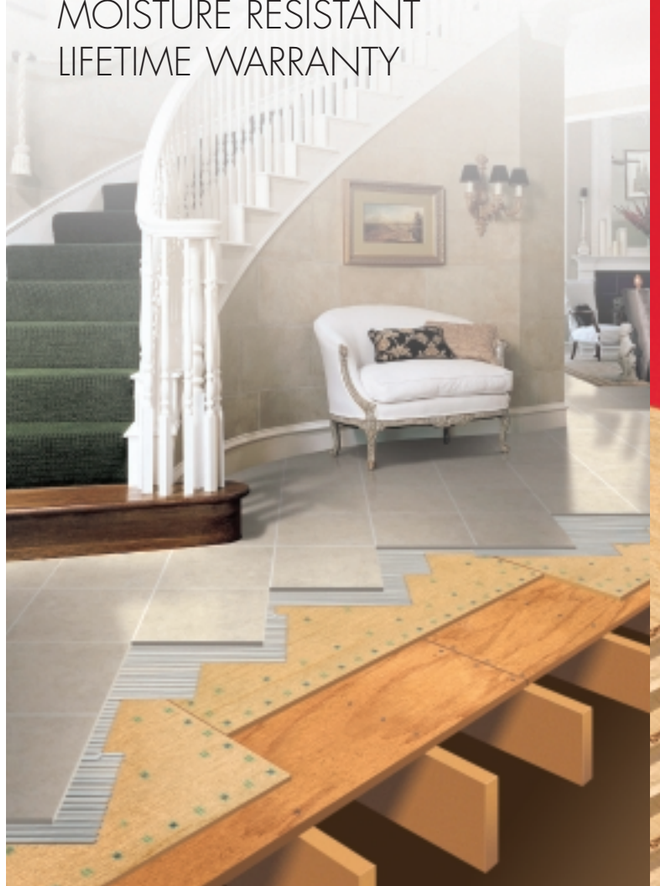
HALEX

Ceramic Tile Flooring Underlayment

High Strength Engineered Laminated Wood Panel

STRONGER
FASTER
40% LIGHTER
DURABLE
MOISTURE RESISTANT
LIFETIME WARRANTY



Ceramic Tile Flooring Underlayment

High Strength Engineered Laminated Wood Panel

STRONGER than traditional cement backerboards. More than 6 times more flexural strength. Fastener holding power is 3 times stronger.

FASTER No thinset required under Halex. No joint taping is required.

40% LIGHTER than cement boards.

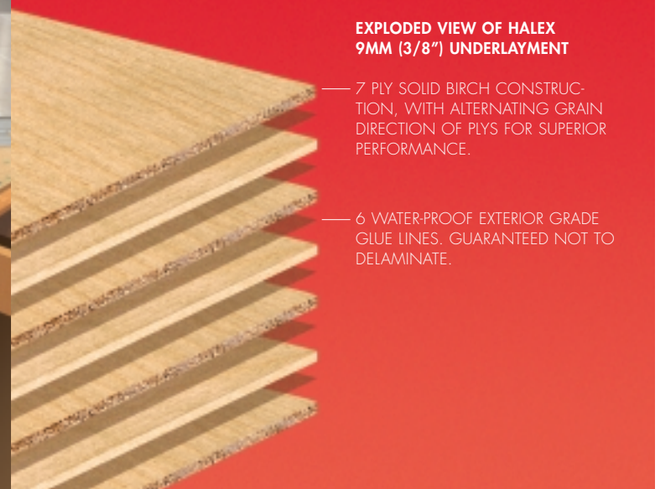
33% LARGER than traditional 3'x5' tile underlayments. Less joints, the source of many problems.

DURABLE Corners and edges will not chip or break. No abrasive debris or silica dust.

MOISTURE RESISTANT Water proof exterior grade glue guaranteed not to delaminate.

LIFETIME WARRANTY Won't buckle, warp or delaminate. No core voids.

TCA HANDBOOK METHOD LISTED
Meets and exceeds ASTM C627 residential and light commercial ratings.



Halex engineered underlayment is no ordinary plywood!

Halex uses a superior grade European birch that is stronger than wood used in typical plywood. With more plies and more exterior grade glue lines than ordinary plywood, Halex offers an underlayment like no other.

Halex has greater flexural strength than traditional cement boards. This means less deflection between the floor joists that can cause tile and grout cracking.

Halex is fast and easy to install. The superior strength of Halex eliminates the need for thinset between the underlayment and the subfloor. No thinset and tapeless installation saves time and money. A pre-printed fastener pattern makes installation easy.

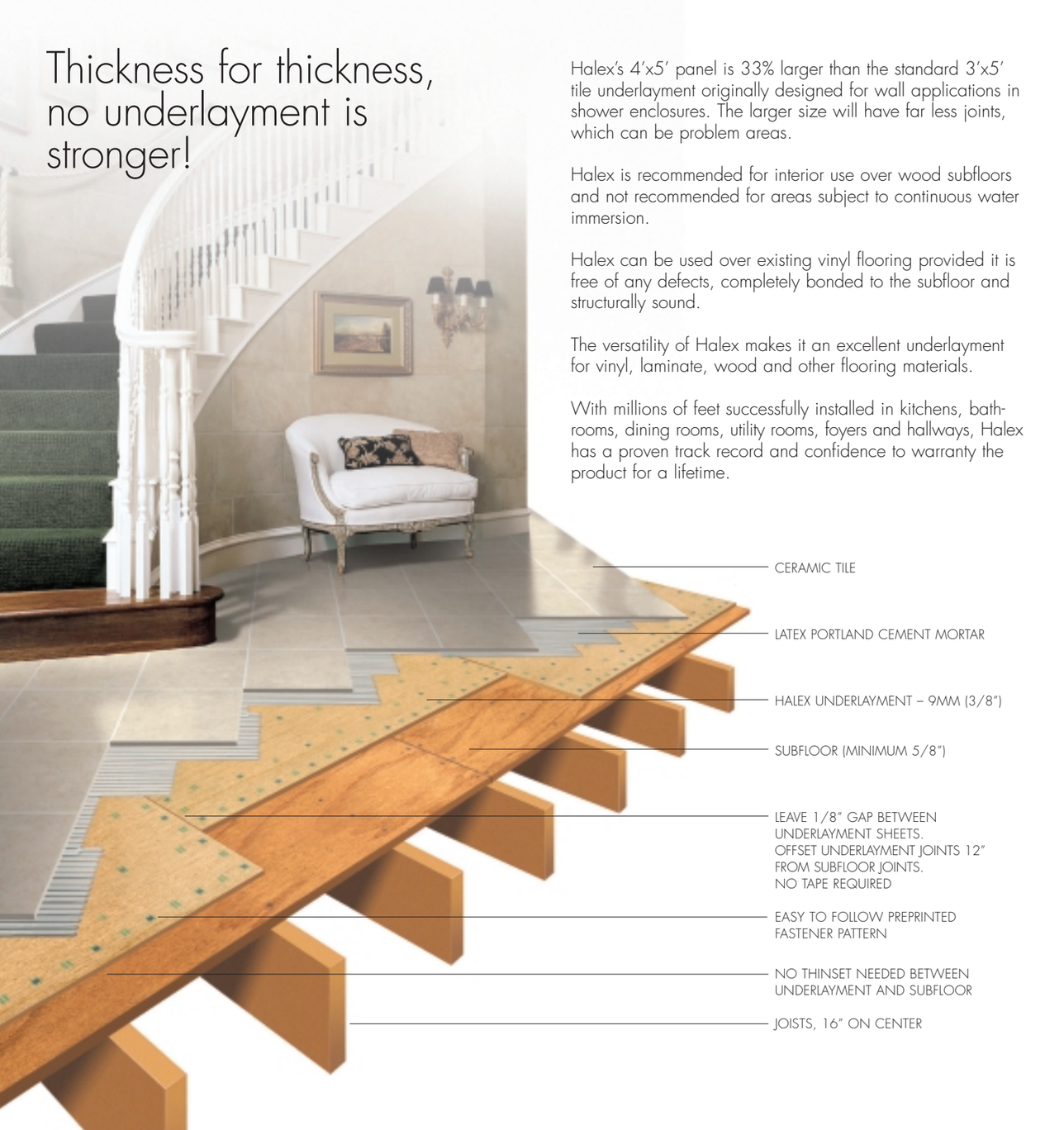
Greater fastener holding power than cement boards or generic plywood helps strengthen the entire floor and decreases the potential of fastener loosening which can lead to squeaks or cracked grout and tile.

Compared to cement boards, Halex is 40% lighter and more durable. Corners and edges will not chip or break and there is no abrasive debris or silica dust left from cutting. Halex is also 33% thinner than traditional 1/2" tile underlayments. The complete flooring assembly is even lighter and thinner when considering that there is no additional layer of thinset between the underlayment and subfloor. This provides greater design flexibility and an easier transition to other flooring.

Unlike generic plywood, Halex's 3/8" thick panels have 7 plies and 6 glue lines. The additional plies and glue lines provide greater strength and dimensional stability because each ply is laid up in cross directions. Each glue line acts as a moisture barrier because Halex is manufactured with waterproof phenolic exterior grade glue. Halex underlayment is moisture resistant and guaranteed not to delaminate.

Each Halex panel is ultrasonically tested to insure that each ply and glue line is 100% defect free. Every panel is then trimmed to exact specifications to guarantee a perfect fitting underlayment system.

Thickness for thickness, no underlayment is stronger!



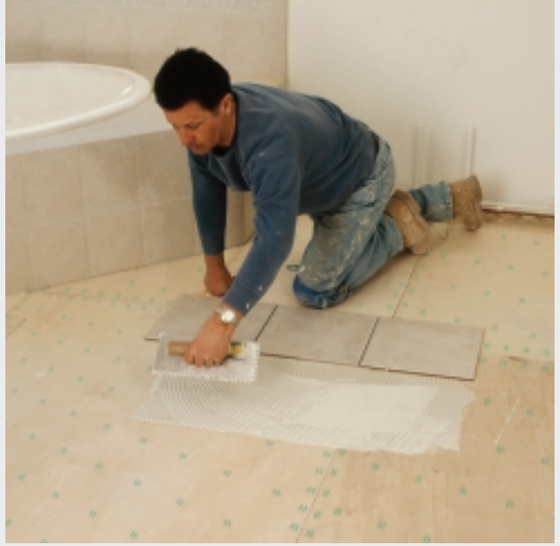
Halex's 4'x5' panel is 33% larger than the standard 3'x5' tile underlayment originally designed for wall applications in shower enclosures. The larger size will have far less joints, which can be problem areas.

Halex is recommended for interior use over wood subfloors and not recommended for areas subject to continuous water immersion.

Halex can be used over existing vinyl flooring provided it is free of any defects, completely bonded to the subfloor and structurally sound.

The versatility of Halex makes it an excellent underlayment for vinyl, laminate, wood and other flooring materials.

With millions of feet successfully installed in kitchens, bathrooms, dining rooms, utility rooms, foyers and hallways, Halex has a proven track record and confidence to warranty the product for a lifetime.



Halex Underlayment Ceramic Tile Installation Instructions

Subfloor
Before installing Halex underlayment, be sure the floor joists and subfloor are structurally sound. We recommend a minimum 5/8" exterior grade plywood subfloor with joist spacing not to exceed 16" on center. The floor must meet or exceed L/360 rating. Homes with crawl spaces must have a vapor barrier to prevent moisture from entering into the joists and sub-floor.

Be sure the subfloor is clean and free of debris. Any uneven subfloor joints should be sanded so that the joints are even.

Underlayment Acclimation
Acclimate the panels 24 hours in the area the panels will be installed and 48 hours in extreme conditions. Separate and store panels vertically to allow air passage on all sides. Acclimation may not be necessary if the storage temperature and humidity level is similar to the job site conditions.

Underlayment Layout
Lay the panels out perpendicular to the floor joists off setting the joints at least 12" from the subfloor joints. Do not allow four corners to meet at one point. Leave a 1/8" inch gap between all panels and between the panels and the walls. Place factory cut edges together and hand cut edges against the wall.

Underlayment Fastening
No thin set is required between the Halex underlayment and the subfloor. No joint taping is required.

Fasten the panels securely to a structurally sound, smooth, clean and dry subfloor using:

- Staples: galvanized or polymer coated 18 gauge chisel point staples with a minimum 1/4" crown or,
- Galvanized ring shank flooring nails:12 gauge, minimum 3/16" diameter head or,
- Galvanized flat head wood screws.

Fasteners should be long enough to penetrate through the underlayment and at least 80–95% of the subfloor, but not protrude through the bottom. Fasten one panel at a time, starting from one side and working to the other. Do not tack the corners first. If using staples or nails, fasten on every fastener mark (4" on center in the field and 2" on center along all edges). When using screws, fasten every 6" on center in the field and 4" on center along all edges. Fasten edges 3/8"–1/2" from the edge. Fasteners should be set flush so they do not protrude above the underlayment.

Setting tile
Before setting tile be sure that the underlayment surface is clean and free of dirt, dust, oily film and foreign matter.

Use EGP latex-portland cement mortar complying with ANSI A118.11 to set the tile and use grout complying with ANSI A118.6, A118.7 or A118.3.