

valor[®] H5 1100M

July 2021

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Cement Board & Wall Finishing

Plan the Wall Finish

Non-Combustible Materials Specifications

Non-combustible materials are those which will not ignite and burn. Such materials are those consisting entirely of steel, iron, brick, tile, concrete, slate, glass or plasters, or any combination thereof.

Materials that are reported as passing ASTM E 136, *Standard Test Method for Behavior of Materials in a Vertical Tube Furnace* at 750 °C shall be considered non-combustible materials.

Combustible Materials Specifications

Materials made of or surfaced with wood, compressed paper, plant fibers, plastics, or other material that can ignite and burn, whether flame proofed or not, or plastered or unplastered shall be considered combustible materials.

Non-Combustible Cement Board

The H5 fireplace requires a 1/2" (13 mm) thick non-combustible cement board or equivalent, to be used as a wall surface immediately above the unit—see diagram for minimum coverage.

Extending the cement board well beyond the minimum shown will help avoid cracking due to differential expansion of materials.

Pre-drill cement board with oversized holes and do not over-tighten screws to avoid cracking due to heat expansion.

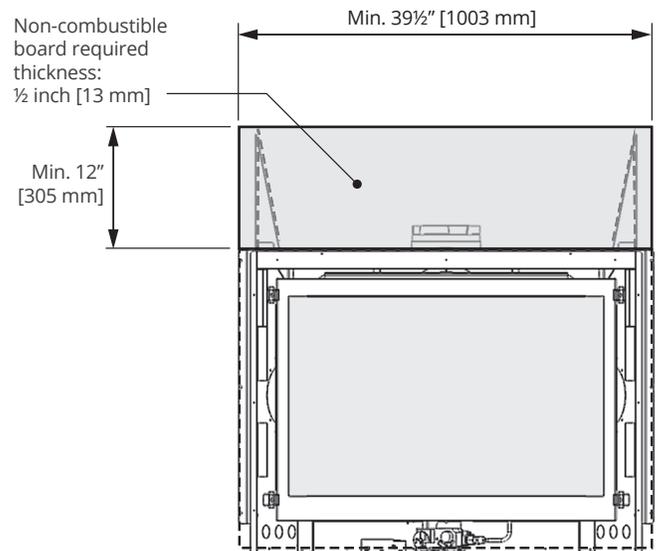
Standard gypsum wall board may be used beyond the perimeter of the cement board although it is preferable not to change materials to help avoid cracking.

Finishing Around Trims

Additional non-combustible material such as tile, etc., may be applied over top of the wall surface or you may choose to leave it finished clean with no tile.

Be aware that a trim is always required and that the wall finish thickness must be taken into account for all installations other than the 1130FFK—Fixed Framing Kit and the 1130CIK—Clean Install Kit.

All the other trims, 1135, 1140v2 and 1184 will accept wall finish tucked under their edge up to approximately 2" thick.



Minimum cement board dimensions



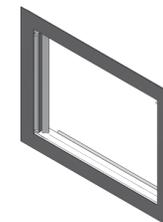
1130CIK
Clean Install Kit



1130FFK
Fixed Framing Kit



1135TSB
3-Sided Trims



1140FSBv2
4-Sided Trims



1184EC Edgemont
Craftsman Trims

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Cracking Wall Finishes

We recommend installing the optional HeatShift System to reduce the wall temperatures and minimize the possibility of cracking wall finishes. See Appendix D - HeatShift System on pages 83-101.

If a clean finish with no tile, etc. is desired, joints in the non-combustible board and the transition to gypsum board will require special attention if future cracking is to be controlled.

Shrinkage and differential movement of the framing and non-combustible wall board can transmit cracking through to tiles, etc.

Be aware that temperatures on the non-combustible wall surface above the appliance can exceed 200°F.

Below are some tips on how to best avoid any cracking:

- Allow materials to dry thoroughly before finishing the wall. Cement board has the ability to absorb up to 30 percent of its weight in water and may shrink as much as 1/8" over a 48" length when drying from a saturated condition. Running the fireplace for an extended period before final finishing will help drive out moisture.
- Always pre-drill screw holes through cement board and use screws with self-milling head.
- Always use mesh tape over joints.
- Always stagger joints in wall board.
- Behind joints, double up studs or use studs "on the flat" to add extra support to the joint. Adhesive on the backside of wall board behind any joints can help control differential movement.
- Use multiple, thinner coats of joint compound and allow to dry thoroughly between coats.
- Ensure framing materials are dry.
- After finishing the wall, introduce heat gradually to slowly dry any excess moisture rather than drying too fast.
- Avoid notching cement board or tiles around corners of window opening and instead provide a joint that intersects the corner.
- Avoid using large, one-piece slab of material with a cut-out in the middle as a surround for the fireplace. Expansion above the opening will cause cracking at inside corners. Provide a joint that intersects the inside corner to avoid cracking.

