

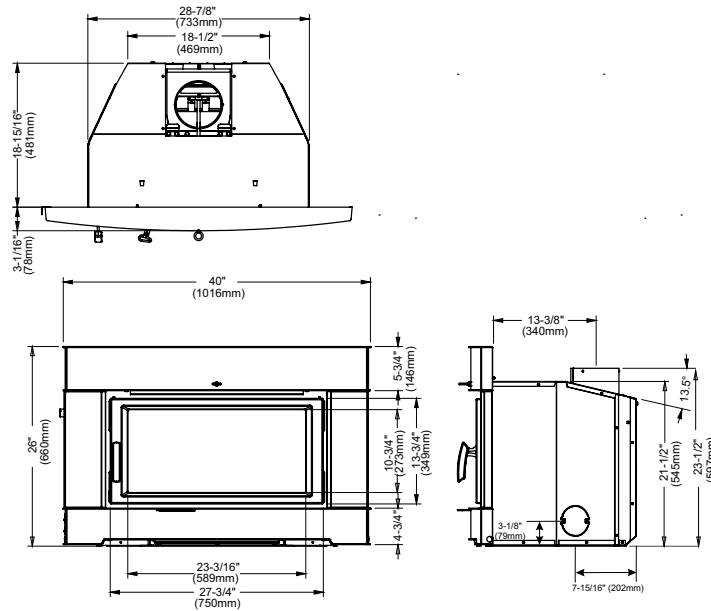
CI2700/HI500 Pro Series™ Wood Fireplace Insert

Model	CI2700/HI500
Cordwood BTU's	78,000 BTU's
Emissions (grams/hr) EPA Certified	1.3 grams/hr
Efficiency (EPA HHV)*	74%
Efficiency (EPA LHV)	79%
Flue Size	6" (152mm)
US Biomass Tax Rebate Eligible	No

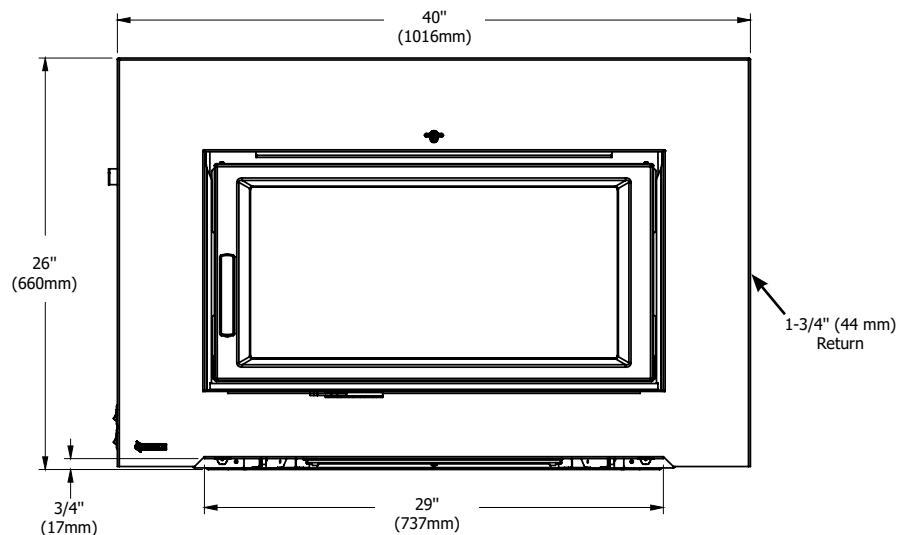
*US Biomass Tax Rebate eligibility is based on the HHV value being greater than or equal to 75%.



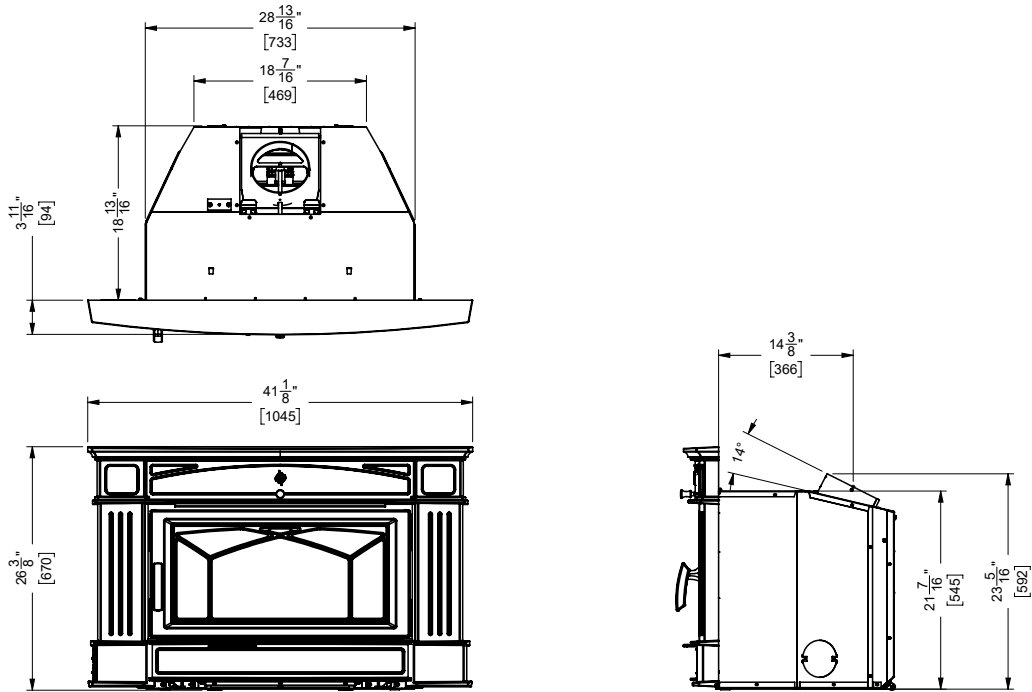
DIMENSIONS - CONTEMPORARY FACEPLATE - CI2700



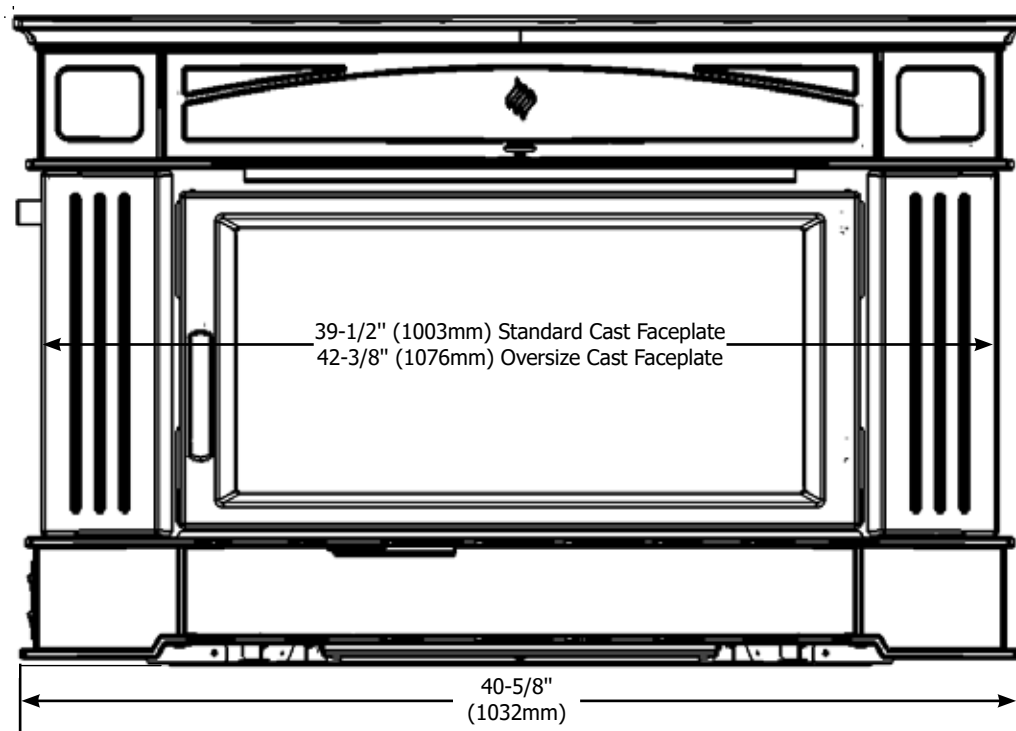
DIMENSIONS - LOW PROFILE FACEPLATE - CI2700



DIMENSIONS - STANDARD CAST FACEPLATE AND OFFSET FLUE COLLAR - HI500

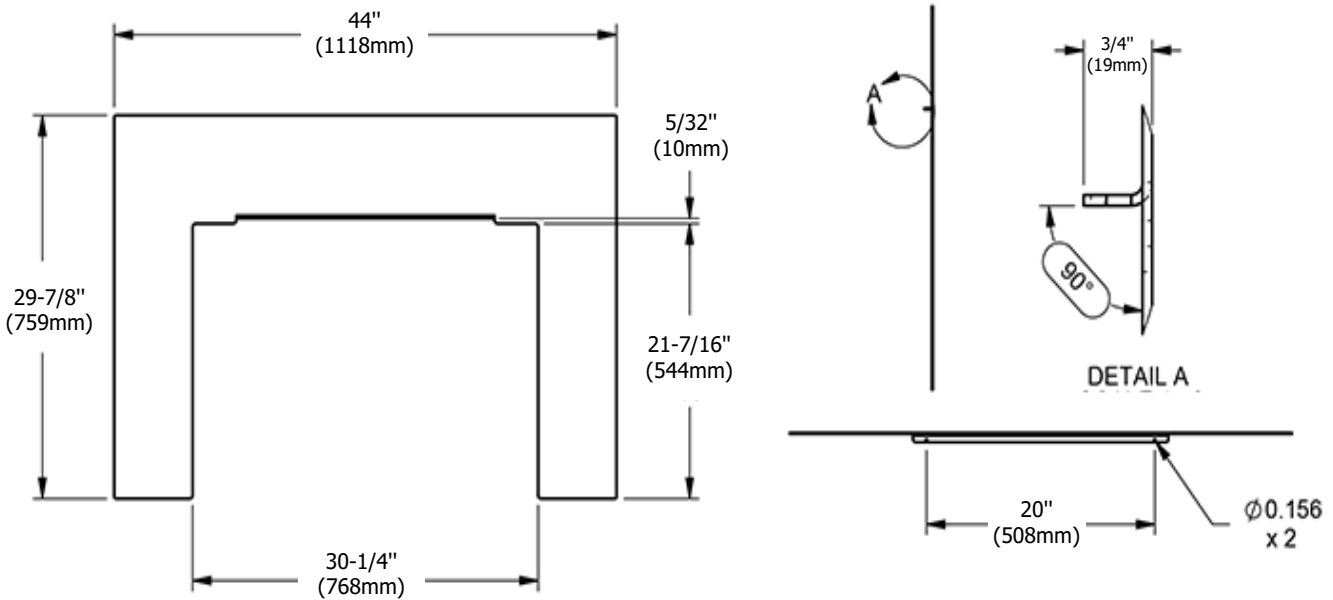


DIMENSIONS - STANDARD CAST FACEPLATE - HI500

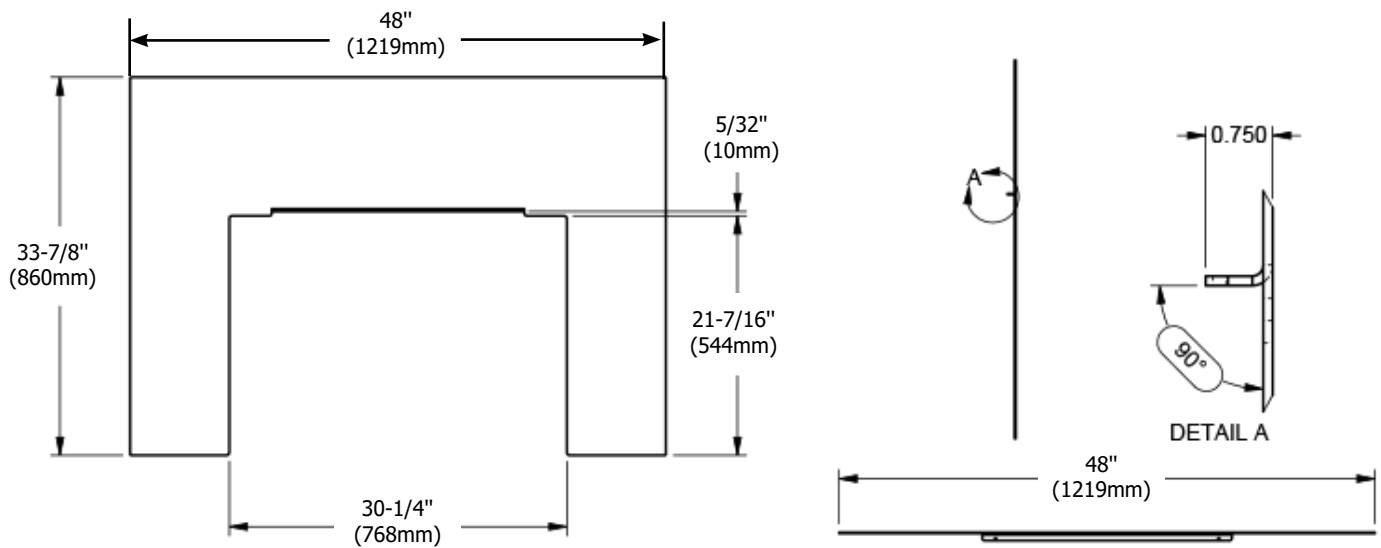


Standard Cast Faceplate shown above
Oversized Cast Faceplate Dimensions: 44" W x 31" H

DIMENSIONS - STANDARD BACKING PLATE



DIMENSIONS - OVERSIZED BACKING PLATE



CLEARANCES-MASONRY AND FACTORY BUILT FIREPLACES

The minimum required clearances to combustible materials when installed into a masonry or factory built fireplace are listed below.

Unit	Adjacent Side Wall (to Side of Door) A	Mantle ** (to Top of Door) B	Top Facing (to Top of Door) C	Side Facing (to Side of Door) D	Minimum Hearth Extension* E	Minimum Hearth Side Extension* F	To Top of Door G
CI2700/ HI500	12-3/16"	21-5/8"	14"	7-3/8"	US 16" Canada 18"	8"	19-1/4"
Measurements A,B,C,D are from top/side of door							

Side and Top facing is a maximum of 1.5" thick.

* Side hearth extension for Canada measured from side of appliance.

* Hearth extension to have minimum: R value of 2.13 or greater.

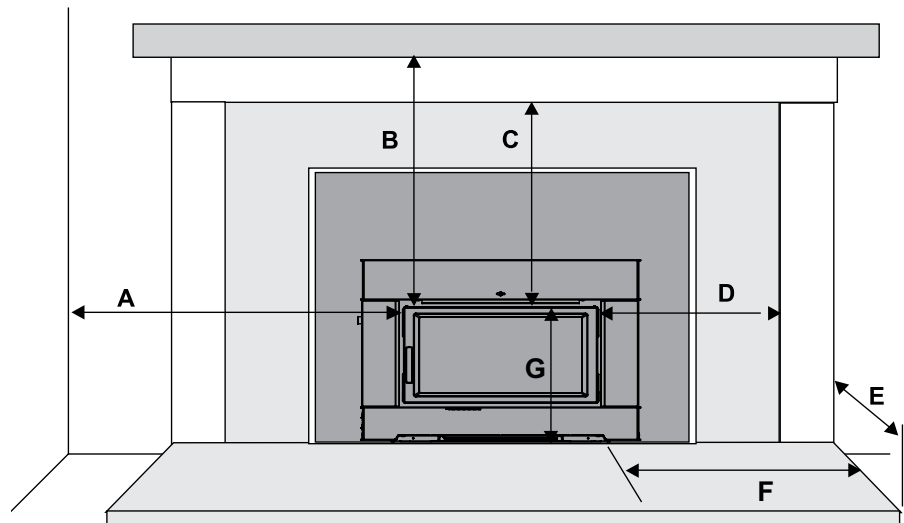
** A non-combustible mantel may be installed at a lower height if the framing is made of metal studs covered with a non-combustible board.

** Max. mantle depth is 10" (254mm).

Thermal floor protection is not required if the unit is raised 6.5" minimum (measured from the bottom of the stove). However, standard ember floor protection is required. It will need to be a non-combustible material that covers 16" (406 mm) in the US and 18" (450 mm) in Canada to the front of the unit and 8" (200 mm) to the sides.

All floor protection must be non-combustible (i.e., metals, brick, stone, mineral fiber boards, etc.) Any organic materials (i.e. plastics, wood paper products, etc.) are combustible and must not be used. The floor protection specified includes some form of thermal designation similar to R-value (thermal resistance) or k-factor (thermal conductivity).

Floor protector listed to UL1618.



Clearance diagram for Installations

Minimum Hearth Extension for the front (E) and sides (F) are measured from the fuel door opening.

HOW TO DETERMINE IF ALTERNATE FLOOR PROTECTION MATERIALS ARE ACCEPTABLE

The specified floor protector should be 3/8" (18mm) thick material with a K - factor of 0.84.

The proposed alternative is 4" (100mm) brick with a C-factor of 1.25 over 1/8" (3mm) mineral board with a K-factor of 0.29.

Step (a):

Use formula above to convert specification to R-value.

$$R = 1/k \times T = 1/0.84 \times .75 = 0.893.$$

Step (b):

Calculate R of proposed system.

4" brick of C = 1.25, therefore

$$R_{brick} = 1/C = 1/1.25 = 0.80$$

1/8" mineral board of k = 0.29, therefore

$$R_{min.bd.} = 1/0.29 \times 0.125 = 0.431$$

Total R = Rbrick + Rmineral board =

$$0.8 + 0.431 = 1.231.$$

Step (c):

Compare proposed system R of 1.231 to specified R of 0.893. Since proposed system R is greater than required, the system is acceptable.

DEFINITIONS

Thermal Conductance:

$$C = \frac{\text{Btu}}{(\text{hr})(\text{ft}^2)(\text{°F})} = \frac{W}{(\text{m}^2)(\text{K})}$$

Thermal Conductivity:

$$k = \frac{(\text{Btu})(\text{inch})}{(\text{hr})(\text{ft}^2)(\text{°F})} = \frac{W}{(\text{m})(\text{K})} = \frac{\text{Btu}}{(\text{hr})(\text{ft})(\text{°F})}$$

Thermal Resistance:

$$R = \frac{(\text{ft}^2)(\text{hr})(\text{°F})}{\text{Btu}} = \frac{(\text{m}^2)(\text{K})}{W}$$

WOOD INSERT SPECIFICATIONS

Your fireplace opening requires the following minimum sizes:

Height: 21-3/4" (552 mm)
Width: 29" (737 mm)
Depth: 19" (483 mm)