



DECLARATION OF PERFORMANCE

(In accordance with Regulation (EU) No. 305/2011)

1. Unique identification code of the product type

ESSE IH-ECO

2. Product description

Ironheart

3. Intended use of the product

Residential cookers fired by solid fuel

4. Manufacturer

ESSE Engineering Ltd, Ouzledale Foundry, Long Ing, Barnoldswick, Lancashire, UK, BB18 6BJ

5. Authorised representative

n/a

6. System of assessment

System 3

7. Notified laboratory

The notified laboratory SGS Nederland BV, laboratory No. 0608 performed the determination of the product type on the basis of type testing under system 3 and issued test report Ref. EZKA/2020-01/00032-1

8. Declared performance

	Wood	Ancit
• Harmonised technical specification	EN 12815:2001 +A1:2004	n/a
• Essential characteristics	Performance	n/a
• Fire safety	-	-
- Reaction to fire	A1	n/a
- Distance to combustible materials	Rear: 400mm Sides: 500mm	n/a
- Risk of burning fuel escaping	Pass	n/a
• Emission of combustible product (CO)	0.07%	n/a
• Surface Temperature	Pass	n/a
• Electrical Safety	n/a	n/a
• Cleanability	Pass	n/a
• Maximum operating pressure	n/a	n/a
• Flue gas temperature at nominal heat output	215°C	n/a
• Mechanical resistance (to carry a chimney / flue)	Pass	n/a
• Thermal properties	-	-
- Nominal heat output	7.6 kW	n/a
- Room heating output	7.6 kW	n/a
- Water heating output	n/a	n/a
• Efficiency	80.6%	n/a

9. Conformity

The performance of the product identified in points 1 and 2 is in conformity with the declared performance given in point 8

Signed for on behalf of the manufacturer

Signed

Date

09/06/20

Martin Ashby
Managing Director

R1 06/20

ESSE Engineering Ltd.,

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INFORMATIONS

SUR LE MODÈLE ESSE IRONHEART

Cote d'énergie	UN
Plaque chauffante	Jusqu'à 6 casseroles
Diamètre du conduit de fumée	6 » (150mm)
Convient pour la combustion continue?	Oui
Lavage d'air secondaire préchauffé?	Oui
Approuvé pour une utilisation sur les foyers décoratifs	Oui
Efficacité	80.6%

DIMENSIONS DU FOUR

Largeur	320mm
Hauteur	340mm
Profondeur	440mm

CAPACITÉ DU FOUR

Retour au début	47,8 litres
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OPÉRATION

Production de chaleur dans la pièce	7,3 kW
Grille de chambre de combustion de bûches?	Optionnel
Firebox est conçu pour brûler	bûches de 500 mm
Des événements de pièce supplémentaires sont nécessaires?	2,25 » dia

DÉGAGEMENTS EN COMBUSTIBLES

Côtés	500mm
Arrière	400mm
Couvercle de traversin	416mm

ÉMISSIONS

Monoxyde de carbone	0.07%
Poussière	21
Hydrocarbures	25
Oxydes d'azote (NOX)	90



TEST SUMMARY

The solid fuel appliance

Esse Ironheart

Manufactured by: ESSE Engineering Limited
P.O. Box 4
Long Ing, Barnoldswick Lancs
BB18 6BN, England

Is independently tested by SGS Nederland BV in accordance with the following standards:

EN12815:2001 + EN12815-A1:2004.

The appliance complies with the following characteristics:

Test summary of report EZKA/2020-01/00032-1

Essential characteristic	
Test fuel	Beech
Emission of combustion (related to 13% O ₂)	CO: 861 mg/m ³
	NO _x : 90 mg/m ³
	C _x H _y : 25 mgC/m ³
	Dust: 21 mg/m ³
Thermal output	7.3 kW
Measured energy efficiency	80.6%
Seasonal efficiency	70.6%

The appliance complies with the Ecodesign requirements of Commission Regulation (EU) No.2015/1185, Annex II, Art. 1,2

Date: November 22, 2022

Approved by:


C. Wösten
Industries & Environment
Technical Manager Air Monitoring

SGS Nederland B.V. is a notified testing laboratory under EC number 0608.
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