

Commissioning Report for Biomass Gasification Boilers

| <u>Details of Installer</u> |
|---|
| Name: (If Different From Commissioner) |
| SEAI Registered ID: (If available) |

| <u>Details of Commissioner</u> |
|--------------------------------|
| Name of Commissioner: |
| SEAI Registered ID: |

Installation Details

Name of Homeowner: _____

Installation Address

Phone:
(If available) _____

Greener Homes Scheme
Grant Approval Ref No: _____

Description of System:

Model Identification:

SEAI Reference Code: SEI-W _____ Model _____

Manufacturer: _____ Serial No. (if avail.) _____

Make: _____

| |
|--|
| <p>All Information requested is Mandatory Failure to provide all information requested will result in this report being returned by SEAI</p> |
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Installation Details

Date of Completion _____/_____/_____

Pre-existing heating system? Yes No

Age of Dwelling _____ years

Dwelling floor area _____ m²

Is the system for:

- Space heating only
- space and water heating

(1) Size of System

Rated Peak Capacity _____ kW

Please provide details (drawings/calculations/other) of correct sizing of system

Buffer Storage: Yes

Volume: _____ Litres (m³)

(2) Commission Data (Appliance should be commissioned at 100% firing rate);

CO₂ _____% Flue Gas Temp. _____ °C

CO _____ ppm Draught _____ Pa

Boiler Combustion Efficiency Test Result _____ %

Boiler firing rate of test _____ %

(3) Air Supply (Refer to TGD Part J)

Combustion Air:

- fan assisted
- natural draught

Direct Air Supply to Appliance Yes No

Permanent Ventilation opening/s _____ in²/mm²
(Delete as appropriate)

(4) Fuel

Fuel Feed System Safety _____
(water quench, air lock, etc.)

(5) Hearth (Refer to TGD Part J)

Thickness _____ cm

Area protruding around boiler _____ cm

Distance from combustible material _____ cm

(6) Chimney/Flue (Refer to TGD Part J)

Existing/new _____

Diameter (cm) _____

Height (m) (above roof/eaves) _____

Distance from Adjacent Buildings (m) _____

Construction

- Twin Wall Yes No
- Stainless Steel
- Masonry
- Other _____

Distance from combustible material _____ cm

Ash Removal options _____

Comments:

| Installation points to be checked | | | |
|---|-----------------|------------|-----------------|
| 1. Installation | Complete | N/A | Comments |
| a) Appliance air supply complies with Building Regulation Technical Guidance Document J | | | |
| b) Constructional Hearth complies with Building Regulation Technical Guidance Document J | | | |
| c) Hearth supports stove / boiler & chimney independently | | | |
| | | | |
| 2. Chimney and appliance flue pipe | Complete | N/A | Comments |
| a) Size of flue complies with Building Regulation Technical Guidance Document J: | | | |
| b) Flue outlet position complies with Building Regulation Technical Guidance Document J | | | |
| c) Flue pipe material complies with Building Regulation Technical Guidance Document J | | | |
| d) Flue pipe separation from combustible material complies with Building Regulation Technical Guidance Document J | | | |
| e) Chimney construction complies with Building Regulation Technical Guidance Document J | | | |
| f) Chimney separation from combustible material complies with Building Regulation Technical Guidance Document J | | | |
| g) Joints and seams of the flue pipes properly sealed to avoid flue gas leakage in the room? | | | |
| h) Chimney sweeping position / debris collection space adequate | | | |
| i) Existing chimney swept | | | |
| j) Chimney visually checked and smoke tested | | | |
| | | | |
| 3. Controller and Electrical Work | Complete | N/A | Comments |
| a) Electrical wiring correctly installed | | | |
| b) Class 1 electrical equipment is earthed | | | |
| c) All wiring is supported and routed correctly | | | |
| d) Temperature sensors and control system installed correctly | | | |
| | | | |
| 4. Boiler and system pipes/vessels | Complete | N/A | Comments |
| a) System is sealed | | | |
| b) System is open vent | | | |
| c) System pressure has been correctly set | | | |
| d) Overflow from safety valve sent to the drainage | | | |
| e) Pressure relief valve and circulating pump operating correctly: | | | |
| f) No valve between boiler and safety valve | | | |
| g) Fill and Expansion cistern complies with BS 5449 | | | |
| h) Hot water pipes insulated properly | | | |
| i) Method of system drainage from lowest point present | | | |
| j) Can heat from new appliance flow through existing appliance and/or vice versa | | | |
| k) Safety controls are independent of other systems (e.g. gas or oil boiler) | | | |

| 5. System heat dissipation | Complete | N/A | Comments |
|---|----------|-----|----------|
| a) System has buffer storage | | | Volume |
| b) System heat dissipation capacity adequate | | | |
| 6. Commissioning and Handover | Complete | N/A | Comments |
| a) Commissioning of Biomass system completed and ready for hand-over | | | |
| b) Maintenance instructions and schedules provided to customer/end user | | | |
| c) Customer/end user has been instructed in correct operation of system | | | |
| d) System documentation and operating manual supplied to end user | | | |
| e) Warranty documentation provided to customer | | | |
| f) End user has been fully informed of correct fuel for system and relevant storage information | | | |

I hereby undertake that the **Wood Gasification Heating System** referenced above has been commissioned by me, in accordance with the prescribed commissioning report above and that I am satisfied that all of the installation points specified have been correctly followed / checked. I further declare that:

- the design and sizing of the heating system is appropriate for the requirements of the house. Calculations supporting the design and sizing are available on request;
- the particular heating system is of merchantable quality, fit for the purpose intended and free from defects;
- the installation was carried out with the degree of skill and care that is required by good, competent, workmanlike procedures, in accordance with recognised good practice and relevant national and European norms and regulations,
- the instructions of the manufacturer, and any statutory requirements and regulations, relating to the manufacture, packaging, distribution, supply, sale and purchase of such heating systems have been adhered to at all times;
- the system complies with all relevant health and safety regulations and requirements;
- the householder has been provided with all the necessary system documentation, corresponding in all respects with the system installed, and has been shown how to correctly operate the heating system
- the householder has been provided with a schedule of required maintenance noting any particular warranty conditions.
- the building is an **existing dwelling** which was first occupied prior to 30th June 2008

| | |
|--|--|
| Signed by Commissioner | |
| Name in Block Capitals | |
| Date | |
| Date of Actual System Commissioning (If different to signature) | |
| Completion of all fields is Mandatory. Failure to provide all information requested will result in this report being returned by SEAI | |