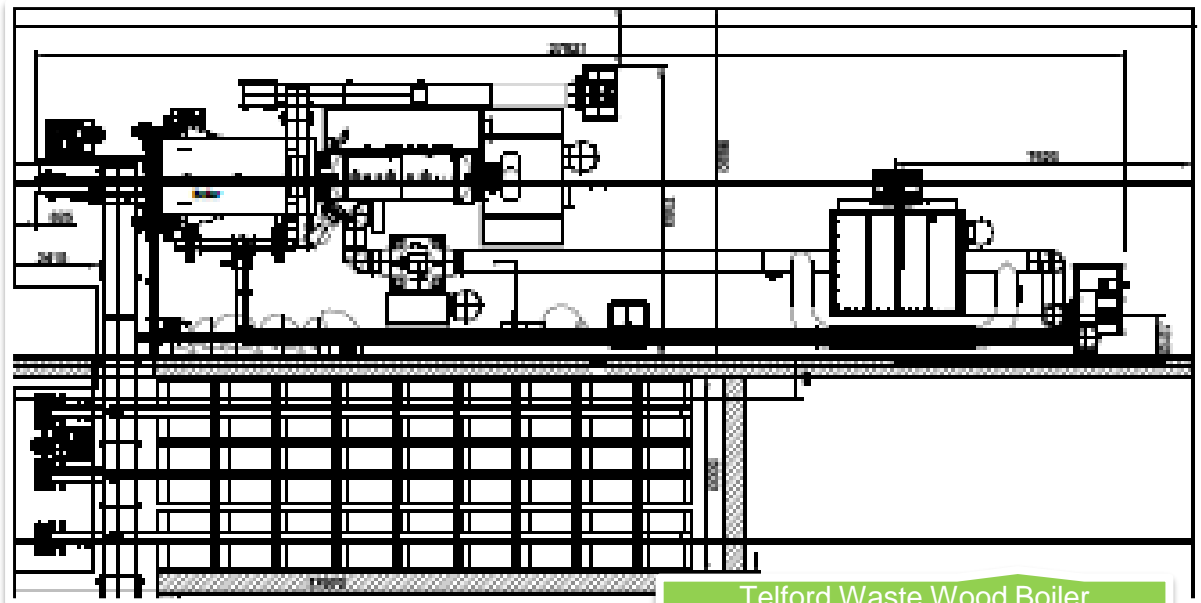


Non-Technical Summary

Issue 1.0

Produced for Sullivan Projects Ltd (c/o Besblock Ltd)

Document Reference Besblock-0



Telford Waste Wood Boiler
Development





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1.0 INTRODUCTION

This Non-Technical Summary sets out the considerations and operational details relevant to the operation of a biomass boiler at Besblock Ltd (hereon referred to as Besblock), Telford. This document details the nature of the site, relevant site infrastructure works, methods of operation and environmental controls. It has been prepared in accordance with the following documents:

- The Environmental Permitting (England and Wales) Regulations 2016, and
- The Industrial Emissions Directive 2010.

The Non-Technical Summary has been prepared in conjunction with the following documents:

- Besblock-1 - Management System
- Besblock-2 - Process Flow Diagram
- Besblock-3 – Environmental Risk Assessment
- Besblock-4 - Air Quality Impact Assessment
- Besblock-5 – Emissions Management and Monitoring Plan

1.1 Site Address

Besblock Ltd.
Halesfield 21
Telford
Shropshire
TF7 4NF

Grid Reference: Easting 371272, Northing: 305234

1.2 Description

Besblock, Halesfield 21, is located within Halesfield industrial estate that connects to the A442 near the village of Madeley, Shropshire. The site is approximately 2.8km south of the town of Telford and 3.2km northeast of the River Severn. The closest city is Wolverhampton which is approximately 21km to the southeast. The site is situated within an industrial area.

1.3 Site Plan

See document – *SP18001-ME-900_p3 Besblocks Site Plan*

1.4 Permits and Licenses

Besblock. is applying for a Part B local authority permit for the operation of a small waste incineration plant (biomass boiler) which comes under Schedule 13A of the Environmental Permitting Regulations 2016.

1.5 Planning Permission

Besblock have submitted a planning application for the biomass boiler development, this is currently being considered by the local authority.

1.6 Hours of Operation

The facility will operate continuously from Sunday evening at 21:45 to Saturday at midday. The site will not be open to the general public.

1.6.1 Business Practice

Besblock will utilise Grade C waste wood sourced from local waste processing companies. The biomass boiler requires 0.7 tonnes of fuel input per hour to produce heat to be supplied to an oven used for curing concrete. The biomass boiler is housed within a building located in the central northern portion of the site. The biomass boiler will effectively replace the existing natural gas fuelled boiler which is currently being used to supply the heat to the oven. The primary function of the facility is concrete manufacturing.

2.0 PROPOSED OPERATION

2.1 Biomass Boiler

Besblock proposes to use one Herz Binder 1650kW waste wood boiler at the site. The purpose of the installation is to provide heat for the oven used for concrete curing and to reduce reliance on fossil fuels. The waste wood boiler will be housed in an existing building onsite and will be fed by a direct hydraulic infeed ram to allow constant feed. The site intends to store the fuel within the same building adjacent to the boiler to keep the wood dry. The boiler will be operated in line with the requirements of IED and any permit requirements that are attached to the permit.

2.2 Operational Procedure

Wood fuel is supplied to Besblock by several local waste processing companies that include, but are not limited to, Cartwrights Skip Hire and Waste Disposal and Jack Moody Ltd. These companies will supply Grade C waste wood which will contain a variety of wood, some which may be construction and demolition and municipal and civic amenity sites before processing but it is a suitable biomass fuel for this boiler.

Documentation will be inspected by Besblock operatives to ensure that fuel deliveries onto site are of the correct fuel type. An operative will also conduct a visual inspection of the material arriving onsite to ensure that it meets the requirements set. If small amounts of contamination are identified, then they will be removed manually. Upon passing the visual inspection, the relevant documentation will be signed by the operative, where required, to confirm the acceptance of the material prior to the wood being stored in the fuel storage area.

Wood fuel is input into the boiler through a direct hydraulic infeed ram. This mechanism will provide a constant feed of fuel during boiler operating hours. Heat produced by the boiler is supplied to an oven used for the curing stage of concrete manufacturing. The by-products of the biomass boiler are ash and flue gas. The boiler has an automatic de-ashing auger to remove bottom ash, which is then collected and removed from the site for hazardous disposal. Abatement systems is fitted to the boiler to limit the emissions in flue gases, this includes a SNCR de-NOx system, lime dosing, bag filtration to reduce particulate, NOx and acid production. There will also be a continuous emissions monitoring system for the boiler.

2.3 Fuel Types

Besblock will use Grade C waste wood, sourced from local waste processing companies.

3.0 SENSITIVE RECEPTORS

A desktop study was undertaken to identify all sensitive human receptors in the vicinity of the site that required specific consideration during the preparation of the permit application. The site is located within an industrial estate. The location of the nearest sensitive receptors and their distances and directions from site as displayed below in Table 1. The nearest sensitive ecological receptor is the Lincoln Hill Site of Special Scientific Interest (SSSI) which is located approximately 4.5km to the southwest of the site.

Table 1 - Sensitive Receptor Locations

Receptor	Type	Distance from site	Coordinates (x,y)
Cluster of Houses (Residential)	Human	740m – 970m	370541, 305156
Secal Sheet Metal (industrial)	Human	355m	370945, 305385
Morland Utilities	Human	325m	370956, 305326
CNT Exhibitions	Human	389m	370875, 305313
Piccadilly Precision Engineering	Human	400m	370872, 305326
APH Windows	Human	465m	370803, 305306
Oakley's Fuel Oils	Human	545m	370745, 305369
Go Green Systems	Human	228m	370751, 305316
KR-L	Human	505m	370747, 305332
Bespoke Construction Services	Human	514m	370755, 305225
Pelloby Ltd	Human	510m	370772, 305167
Proframe Manufacturing	Human	500m	370799, 305094
Forbo Flooring UK	Human	300m	370822, 305243
TP Manufacturing t/a Pendock	Human	625m	370679, 305057
CEL Group	Human	610m	370726, 304986
Reflex Flexible	Human	540m	370814, 305002
Ingimex	Human	345m	370941, 305163
WZ Packaging LTD	Human	370m	370982, 305020
AG Machining Services	Human	672m	370696, 304913
AAT Performance Advanced Autocare	Human	630m	370684, 304894
Dylan Hartley	Human	640m	370722, 304904
Mower Mech	Human	660m	370735, 304868
Telford Rewinds	Human	670m	370719, 304874
Premier Inflate	Human	667m	370733, 304862
Hazel's Sandwiches	Human	595m	370834, 304854
Cluster of houses, Cuckoo Green (Residential)	Human	795m – 885m	370571, 304871
Shropshire Fire and Rescue Service	Human	900m	370496, 304798
M R Bathrooms and Fires	Human	900m	370478, 304835

Cuckoo Oak	Human	938m	370437, 304830
Anchor Chilcott Gardens	Human	1000m	370652, 304471
Cluster of Houses, Greenwood Close	Human	955m	370626, 304569
Petrofer UK	Human	725m	370826, 304681
Harcourt business park	Human	795m	370752, 304669
SES Sterling	Human	805m	370794, 304600
RTITB	Human	670m	370922, 304677
Zapi UK	Human	745m	370909, 304601
Prestige Business Forms	Human	775m	370914, 304564
West Pennine Trucks	Human	825m	370894, 304521
Pirates and Princesses, Apes Spa, Digraph Transport Supplies	Human	825m	370824, 304553
Cedar Court, Road and Race Telford, Telford Turbos	Human	890m	370786, 304499
Precision Carbide Tools	Human	895m	370837, 304463
Swanstone	Human	880m	370825, 304487
Auto Recode	Human	884m	370902, 304449
The Chair Group, Sulzer, CBL Supplies, Telford Fabrications, Fenton Plant Machines	Human	925m	370891, 304409
Occupational Health Centre	Human	870m	370917, 304442
Edgmond Foods	Human	995m	370796, 304365
Unknown Warehouse	Human	930m	370950, 304379
Ambroplastics, G& J Civils	Human	870m	371008, 304420
Tamlex	Human	860m	371107, 304390
The Chair People	Human	887m	371120, 304384
WEEE Reuse It, AO Recycling	Human	708m	371083, 304569
Brinton's Carpets	Human	560m	371140, 304702
Auto Mechanical & Gailey Recovery	HUman	112m	371203, 305170
BML Hayley	Human	144m	371253, 305096
Tollgate Products	Human	220m	371154, 305060
Wrekin Shell Mouldings	Human	295m	371183, 304971
Freemans of Telford	Human	280m	371107, 305036
SW Group Logistics	Human	332m	371100, 304974
Club 0-5	Human	345m	371153, 304922

Go Green Managed Services	Human	335m	371181, 304870
Electric Centre	Human	400m	371154, 304873
Games Lore	Human	340m	371224, 304888
Halesfield Auto Sales, 213 Automotive, GTE Transport, Bubbles Hand Car Wash	Human	455m	371208, 304802
Furrows Halesford	Human	477m	371205, 304776
National Windscreens	Human	465m	371288, 304790
If Solutions	Human	445m	371364, 304822
Budget Gas	Human	112m	371196, 305336
Cartwrights Waste Disposal Service	Human	195m	371289, 305415
STA Vehicle Centres	Human	260m	371276, 305514
J Peate Auto Services	Human	255m	371345, 305506
MSM Hire	Human	300m	371358, 305533
Stove and Chimney Direct	Human	352m	371367, 305590
Kemberton Car Sales and McCormick's Car and Commercial Services	Human	460m	371329, 371329
Massive Racing	Human	308m	371324, 305544
Halesfield Day Nursery Centre	Human	350m	371339, 305593
Halesfield Community Recycling Centre	Human	382m	371499, 305562
Tarmac	Human	445m	371403, 305674
Hazlegrove Superleague	Human	507m	371382, 305749
Evo Commercials	Human	555m	371401, 305823
Spacecare	Human	530m	371437, 305762
Cobra Seats	Human	590m	371482, 305805
Eurofit Autocentres Telford, A C S Engineering, Solar Inks, Computer Support Service	Human	665m	371512, 305877
All Glass Systems	Human	735m	371563, 305930
Independent Polymer Technology	Human	780m	371546, 305976
SMP Security Solutions, Holloway Control Systems	Human	670m	371484, 306006

Telford vehicle Services, Adventure Vault	Human	830m	371529, 306045
Midland Computers	Human	870m	371537, 306084
Autoshine and Tinting	Human	825m	371481, 306070
CES Car Parts (Telford)	Human	830m	371492, 306104
Saint-Gobain Weber	Human	860m	371392, 306196
Stokey Plant Hire		905m	371435, 306144
Jayville Engineering	Human	810m	371451, 306049
MAHLE Filter Systems UK	Human	810m	371268, 371268
Moresecure Storage Products	Human	255m	371503, 305413
Mail Solutions UK	Human	240m	371510, 305330
Wintech Testing	Human	350m	371619, 305349
Thermserve	Human	330m	371575, 305369
G Force Express Parcels, Telford Plastics	Human	285m	371559, 305243
Unknown Industrial building	Human	129m	371377, 305334
Precision Colour Printing	Human	47m	371413, 305270
Neumo UK	Human	85m	371293, 305094
Vargus Tooling	Human	188m	371367, 305076
Unknown Residential Buildings	Human	735m	371784, 305866
Greenhous DAF Telford	Human	987m	371680, 304365
The Bond Group	Human	890m	371580, 304413
Protolabs	Human	745m	371449, 304480
Boxwood Café & Catering	Human	820m	371373, 304842
White & Company	Human	890m	371682, 304438
VA Technology	Human	715m	371682, 304620
Elite Precast Concrete Limited	Human	670m	371588, 371588
Classic Acoustics	Human	655m	371344, 304606
DBM Electrical Supplies	Human	700m	371350, 304559
Automotive Addiction	Human	735m	371364, 304526
Veetireco UK	Human	715m	371367, 304546
Tudor Employment Ltd	Human	810m	371290, 304444
LS Engineering, Clearview Security	Human	665m	371308, 304554
M54 Space Centre Telford	Human	755m	371329, 304497
Treadsetters Telford	Human	540m	371325, 304708

Saica Pack	Human	852m	371229, 304403
Harcourt, Bayfield Vehicle Hire	Human	940m	371214, 304312
Hexagon Manufacturing Intelligence	Human	945m	371326, 304307
Nationwide Platforms	Human	880m	371334, 304376
My Workwear, Toprite Worktops	Human	940m	371470, 304323
Pineapple Connect	Human	975m	371481, 304296
Haybrook Industrial Estate	Human	975m	371574, 304307
Link Lockers	Human	500m	371471, 304802
Infoteam International Services	Human	550m	371579, 304800
Lovell Recycling	Human	515m	371679, 304927
Link 51	Human	320m	371480, 304986
Western Power Distribution Telford	Human	420m	371593, 304983
Citadel International Security Services	Human	250m	371311, 305000
Invotec Circuits	Human	260m	371350, 305001
ST Services	Human	495m	371705, 304997
Cargo Express Telford	Human	305m	371510, 371510
NHS Telford and Wrekin CCG	Human	240m	371478, 305084
Corbetts the Galvanisers	Human	215m	371479, 305156
RG74, Q Technical Services, Rex Stevens Transport	Human	500m	371724, 305052
Saftek	Human	480m	371743, 305130
Ore Cross Fit	Human	480m	371748, 305170
Bitec Paint and Refinish Supplies	Human	230m	371512, 305217
Cluster of buildings of mixed/unknown business and industrial use.	Human	410m	371671, 305140
Keysight Technologies	Human	555m	371469, 304738
Severn Valley Motorsport	Human	610m	371442, 304667
Hollingsworth	Human	600m	371584, 304727
West Ridge, Residential Buildings	Human	765m	371764, 304653
Cluster of Houses	Human	785m – 1000m	371014, 305995
Holmer Lake	Human	625m	370888, 305753
Cluster of Houses	Human	685m – 1000m	370680, 305587

Holmer Lake Primary School	Human	815m	370653, 305827
Lake View Residential Care Home	Human	915m	370574, 305828
Madeley Pitmounds, Local Nature Reserve	Environmental	846m	370487, 304991

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