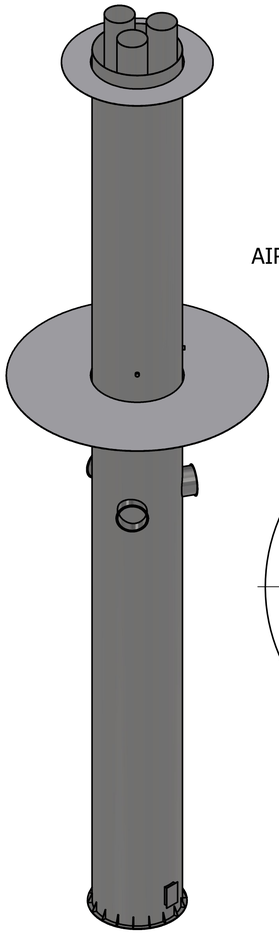
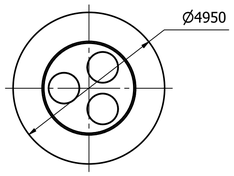
DWG No CN1352 - 1

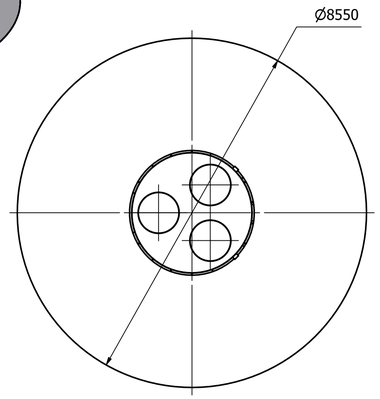
THIRD ANGLE PROJECTION



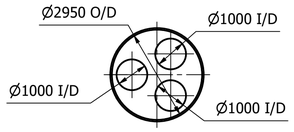
ISOMETRIC VIEW (1 : 100)



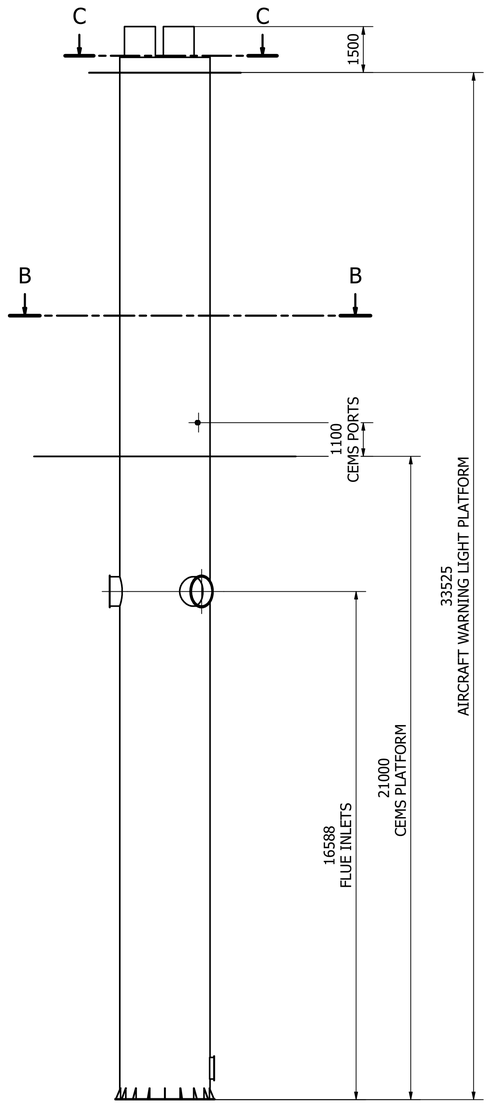
C-C (1 : 100)
AIRCRAFT WARNING LIGHT PLATFORM



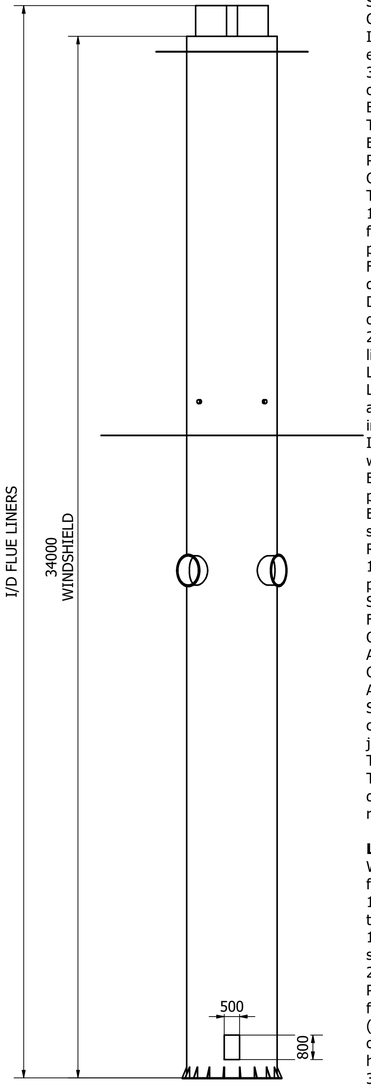
B-B (1 : 75)
CEMS PLATFORM



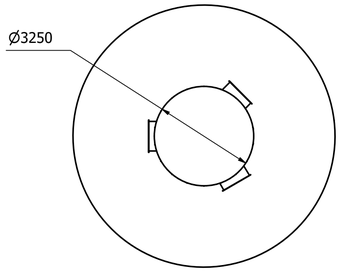
PLAN VIEW (1 : 100)



SIDE VIEW (1 : 100)



FRONT VIEW (1 : 100)



BASE VIEW (1 : 100)

Scope
We offer to supply, deliver, offload and install 1No chimney that is to be self-supporting, and ground mounted.
Design for 25-year life to BS EN 1993-3-2 – Design of steel structures – Part 3-2: Towers, masts and chimneys – Chimneys. Windshield designed for site ambient temperature of 200C and flue liner for a maximum flue gas temperature of 1900C.
34m high x 2950mm O/D windshield constructed in 3No externally flanged (flanges at 12m and 24m agl) sections from 6mm (min') thick S275JR carbon steel plate and c/w galvanised bolts. Accessories from S275J2/S255J0 carbon steel, as necessary.
Chimney to contain and support 3No 35m high x 1000mm I/D flue liners. Noting the reference to economizers we allow the flue liners from 3mm thick grade 304 stainless steel operational requirements.
Base plate assembly.
Template and holding down bolts (bolt basket).
Earthing / lightning protection.
Personnel access door (800mm high x 500mm wide).
Cap plate assembly c/w upstands and cope hoods.
Tuned mass damper (TMD).
1No flanged inlet connection to agreed details to receive flue ducting by others. Inlets about 16.6m agl as per screenshot below received from customer 6/6/25
Flue liners to terminate just below inlet level upon purpose designed support steels.
Drain lines c/w ball valves to low level for piping away by others.
2No emission sampling points and 3No CEMS points per flue liner. Located about 22.1m agl.
Lifting points.
Liners individually insulated with 50mm thick mineral wool at 80kg/m3 density. (No cladding fitted over the insulation).
Internal windshield surfaces cleaned to ST3 and treated with a coat of zinc primer.
External windshield surfaces cleaned to SA2.5 followed by a paint system for ISO 12944 Category C4 Environment, C4 High Durability: 15-25 years to an agreed standard RAL colour but excluding RAL 9006 and RAL 9007
100% visual inspection of welds and lifting lugs dye' penetrant tested.
Structural design calculations
Fabrication drawings.
Quality Plan (If required). O&M Manual (If required).
AP visit and preparation of RAMS.
CE Marking.
Aircraft Warning lights
Supply and install 3No aircraft warning lights near the chimney top. To be c/w cables and a low-level junction box to enable others to connect to a power supply. There is a very wide range available, and we include WL Twin77 Duty & Stand-by Lights as the attached data sheet which FDL should ensure meets with the requirements of the relevant Authorities.

Ladder and platforms
We offer to provide the chimney with 2No platforms to the full chimney windshield circumference.
1 x 1m wide platform near the chimney top for access to the aircraft warning lights.
1 x 2.75m wide platform for access to the emission sampling points and CEMS points. Top of platform flooring 21m agl which is 1.1m below the sampling ports.
Platforms designed for a U.D.L of 2 KN/M2 and to be c/w flooring panels from 25mm deep x 3mm thick (41/100 construction) slip resistant (serrated) Flowforge open mesh, 150 x 6mm kick plate and tubular handrail system with standards to BS6180. (Assumed 360Nm loading).
We also include a galvanised Y-spar fall arrest type ladder from ground level to complement the platforms.
To be c/w folding footrests at 9m max' centres, 2m security cover plate and vertical body control fall arrester.

NOTES - U.O.S.

1. ALL DIMENSIONS IN mm.
2. DO NOT SCALE, IF IN DOUBT ASK.

UNTOLERANCED DIMENSIONS OF	NOMINAL DIMENSION RANGE UNITS IN MILLIMETRES u.s.o.			
Over To	100	100 350	350 1000	1000+
MACHINING	± 0.3	± 0.5	± 0.8	± 1.2
FABRICATIONS	± 1	± 1.2	± 2	± 3
WELDED ASSYS	± 1.5	± 2	± 3	± 4

WELDING TERMS & SYMBOLS TO BS EN 22553 1995

Minimum Material Standards as Follows :-
Steel Plate – BS EN 10025:S275JR
Bar – BS 970:PART1:1996:070M20
Rolled Hollow Section – BS EN 10219:2006: S235 JrH
HR Structural Sections – BS EN 10025: S275JR+AR:2004
– BS EN 10025: S355JO+AR

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Warning: Any unauthorised act in relation to the work may result in both a civil claim for damages and criminal prosecution.

Rev	Description	Date	Approved	Checked
Q	INITIAL ISSUE	03/05/2018		DCH

REVISION

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Client: ENERGOS

Project No: CN1352

Title: CHIMNEY GA (PRELIMINARY)

Sheet 1 of 1 | Scale 1:100 | A1

DWG No CN1352 - 1 | Est Weight N/A | Revision Q