

General Notes:

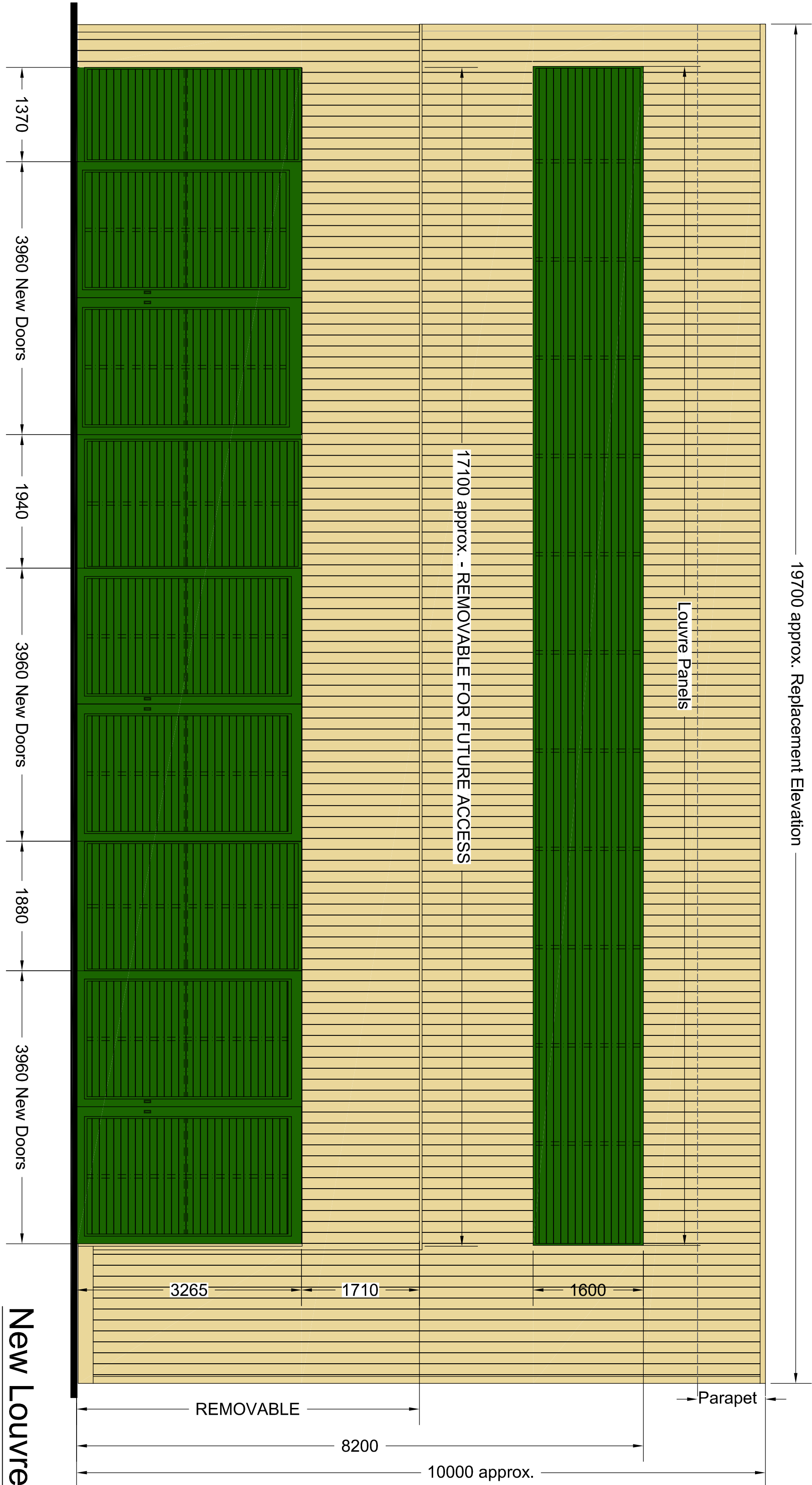
1. The drawings, design and all information contained therein are the sole copyright of Norder Design Associates (NDA) and reproduction in any form is forbidden unless permission is obtained in writing.
2. This drawing is to be read in conjunction with all other relevant Architects, Engineers and specialists drawings.
3. Conflicting information shown on the NDA drawings or discrepancies between the information given by NDA and that provided by others must be referred to NDA before work proceeds.
4. Dimensions must not be scaled from this drawing.
5. Dimensions marked 'dimension to be site checked' are subject to confirmation by site measurement before construction proceeds.
6. Site measurements, such as for the purposes of steelwork installation, take precedence over 'site dimensions' indicated on this drawing. All surveys should ensure an accurate fit of components.
7. Temporary works associated with the construction of the project shall be the responsibility of the Principal Contractor.
8. Where any temporary works or scaffolding are required the Principal Contractor shall appoint a competent and suitably experienced Temporary Works Coordinator (TWC). Refer to BS 5975 for guidance on temporary works and the role of a TWC.
9. Calculations and drawings of all Contractor designed structural items associated with NDA's design responsibilities shall be submitted to the Engineer for comment at least 10 days prior to manufacture. Any comments made by NDA do not absolve the Contractor of his design responsibilities.

LEGEND

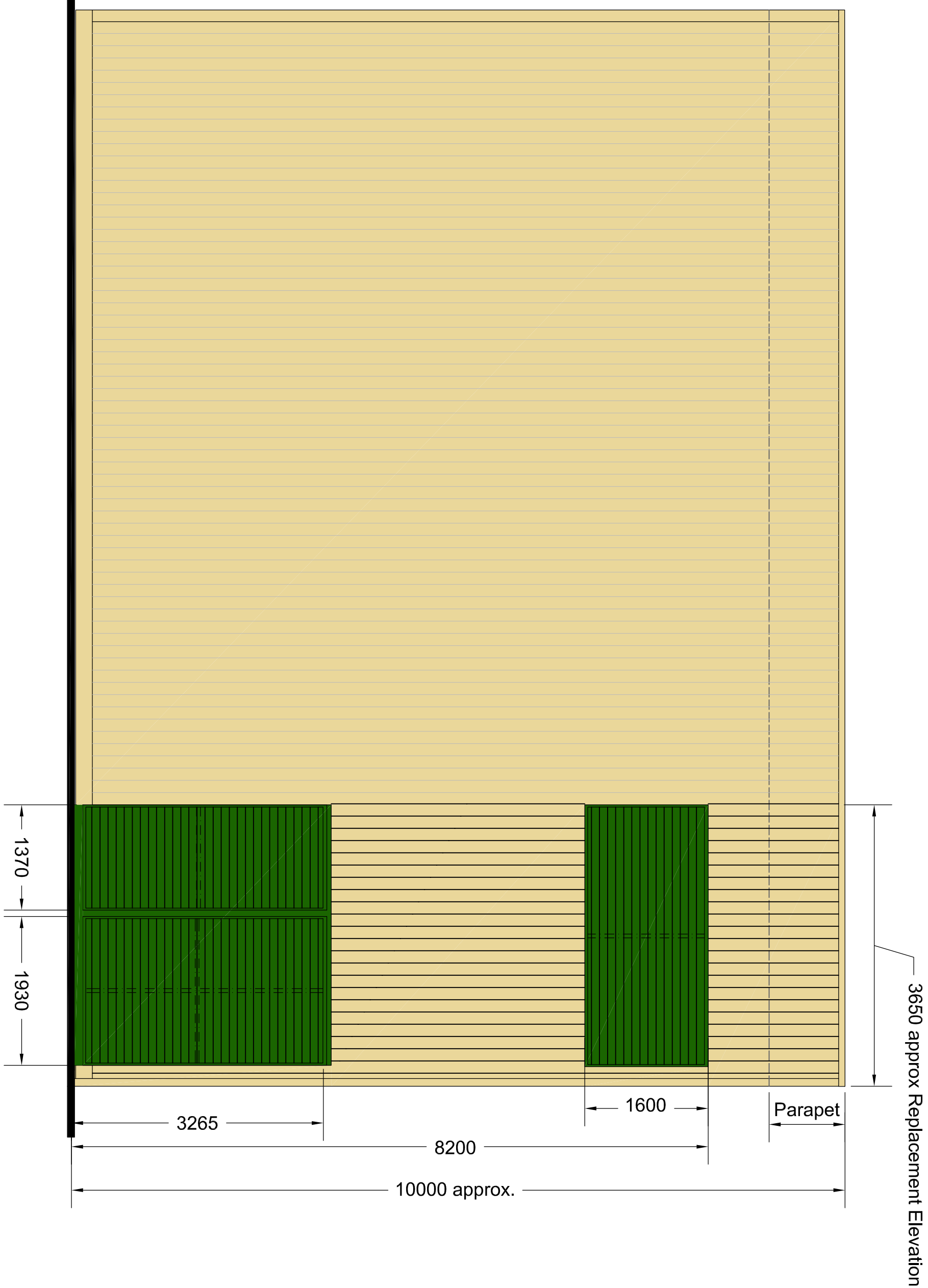
- New Colour Coated Steel Ventilation Louvres - refer to louvre specification
- Existing built up wall Cladding
- New built up wall Cladding - refer to wall specification



New Louvres



PROPOSED Boiler House South Elevation



PROPOSED Boiler House West Elevation

New Wall Construction

Trisobuild Vertical Wall System (VV) built up wall cladding comprising 0.7mm thick steel external profiled sheet in Colour: Honesty(BS10 C31), 120mm thick stonefibre insulation (density 23kgg/m3) and 0.4mm thick internal LP1000 steel liner sheet which will give a Sound Reduction Index value RW of 39.2dB.

Trisobuild® built-up systems sound reduction predictions

SRI Weighted Values, R_w (dB)

Insulation and cavity thickness (mm)	Internal LP1000 Liner (0.4mm Steel)			Internal RL32 Liner (0.7mm Steel)		
	Glassfibre Insulation (nom. 12.5kg/m³)	Stonefibre Insulation (nom. 23kg/m³)	Stonefibre Insulation (nom. 23kg/m³)	Glassfibre Insulation (nom. 12.5kg/m³)	Stonefibre Insulation (nom. 23kg/m³)	Stonefibre Insulation (nom. 23kg/m³)
120	36.8	38.3	37.8	39.2	39.0	40.2
140	37.0	38.5	38.2	39.5	39.1	40.3
160	37.2	38.7	38.5	39.8	39.3	40.5
180	41.9	43.3	43.3	44.5	43.9	45.1
200	42.1	43.5	43.6	44.7	44.1	45.2
220	42.3	43.6	42.7	45.0	44.2	45.3
240	46.3	47.6	48.0	49.1	48.2	49.3
260	46.5	47.8	48.3	49.3	48.4	49.4
280	46.6	47.9	48.5	49.6	48.5	49.5
300	46.8	48.1	48.8	49.8	48.6	49.7
320	47.0	48.2	49.0	50.0	48.8	49.8
340	47.2	48.4	49.3	50.2	48.9	49.9
360	47.3	48.5	49.5	50.5	49.1	50.0
380	47.5	48.7	49.8	50.7	49.2	50.2
400	47.7	48.8	50.0	50.9	49.3	50.3

For information on individual frequency ratings please contact the Technical Department for Tria Steel's Building Systems UK T: +44 (0) 1244 892199, E: technical.enquiries@triassteel.co.uk
The acoustic performance of the profiled metal cladding construction detailed above has been predicted using the 2019 version of the computer programme developed by Tria Steel.
CAUTION: The predicted SRI values should be used only to provide guidance for preliminary design and/or applied of cladding systems. Laboratory measurements should will be used to provide definitive acoustic data.

Frequency (Hz)	63	125	250	500	1k	2k	4k	8k	RW (dB)
Noise (dB)	7	7	10	15	28	30	26	21	20
Face Velocity (m/s)	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
Pressure Drop (Pa)	7	16	28	44	64	87	114	141	178
Weight	46kg/m ²								
Visual Free Area	38%								
Actual Free Area	26%								

ALSH/30
Single Bank 300mm deep

Type ALSH30 is designed for the most demanding of acoustic applications where greater levels of noise reduction are required whilst retaining a slimline profile. The louvre is a single e bank design comprising of one row of acoustic baffles however in order to provide greater levels of noise reduction the unit is 300mm deep.

The ALSH30 enjoys a longer baffle design which offers a greater sound reduction index as opposed to its similar sibling (Type ALS20). This arrangement will provide a typical weighted SRI of 20 dBA.

With a recessed frame as standard a flange border alternative can also be specified along with other features such as Birdguard and insect screen accessories.

Material: Standard construction is galvanised mild steel. Aluminium or stainless steel optionally available.
Finish: Standard finish is mill finish (unpainted). Polyester powder coat to BS or RAL colour optionally available.

PROJECT
Manchester Brewery
Replacement Boiler
House Facade

DRAWING TITLE
Proposed Boiler House
Elevations & Material
Specifications

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SCALE	SHEET SIZE	NDA REF
1:50	A1	8654

S2 - Suitable for Information
DRAWING NO.

8654-NDA-XX-XX-DR-A-5502

P2