

# Noise Insulation Scheme Process

There will be a 15 minute break after the presentation followed by a Q&A.



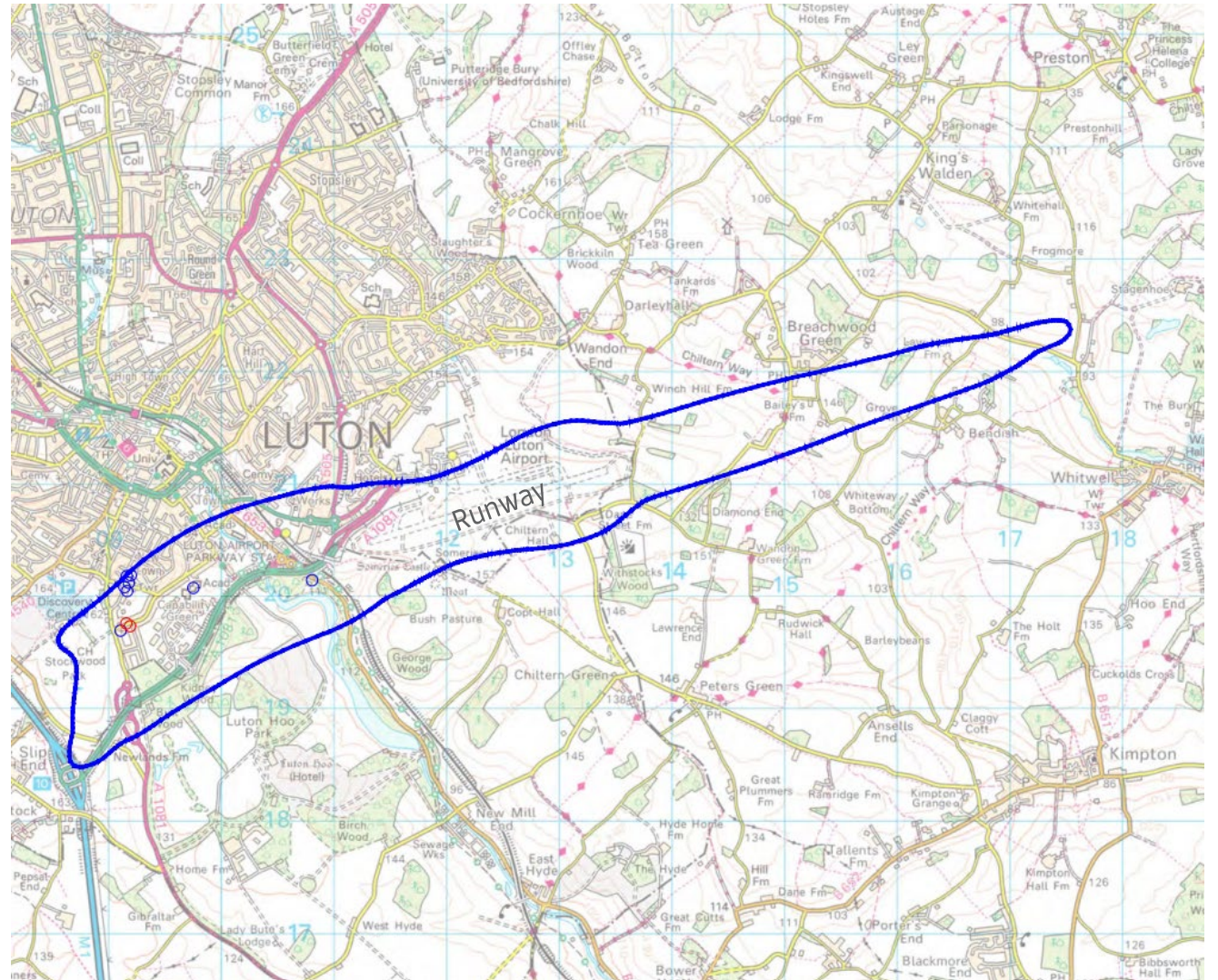
London Luton Airport

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# Noise Contour - Eligibility

- The Noise Contour map indicates the areas exposed to certain noise levels by aircraft in the air.
- Both residential and non-residential properties which lie within this area are eligible for noise insulation.
- The Noise Contour is calculated annually by Independent Noise Specialists; therefore, the contour may change.
- The property must not have previously benefitted from the Noise Insulation Scheme.



# LLACC Noise Insulation Sub-Committee

- The LLACC (London Luton Airport Consultative Committee) Noise Insulation Sub-Committee meet at least once a year to decide on eligible properties.
- LLACC Noise Insulation Sub-Committee selects which properties fall within the selection criteria of the scheme and prioritise eligible properties for insulation each year.
- The Independent Sub-Committee is made up of local councils and airport campaign group LADACAN.

Our Independent Noise Specialists will determine eligible properties based on noise contours.



LLACC Noise Insulation Sub-Committee will decide which properties to prioritise each year.



London Luton Airport will directly contact the eligible property owners selected for Noise Insulation each year.



Property owners wishing to accept the offer of insulation must do so within 30 days.



Property owners that decline insulation or do not reply will receive contact again in 5 years.



Our contractor will arrange an appointment with the property owner for a survey to be carried out.



Once the works have been approved by LLA, installation will commence at a suitable time for the property owner.



Once the works are complete, the property owner will receive a feedback survey to leave any feedback regarding the scheme.





# Types of Insulation Available

## Secondary glazing

- The primary method of improving sound insulation. Provides an additional layer of glass inside the existing external window.

## Double glazing

- The contractor may recommend the installation of double-glazed replacement windows.

## Ventilators

- Allows fresh air into the property without needing to open windows therefore keeping further noise out of the property. Acoustic trickle ventilation units, mechanical ventilation units and passive ventilation units are included within the scheme.

## Loft and Door Insulation

- The contractor may supply the installation of sound insulation external doors and loft insulation to reduce the noise inside the property.



# Types of Insulation Available





# Completed Installations

Since the scheme started in 2016, LLA has contacted 1,694 properties, and insulated 618 properties.

We still have 792 residential properties to contact and 10 non-residential properties.

Rooms eligible for insulation include living rooms, dining rooms, kitchen-diners and bedrooms. Rooms not included in the scheme are kitchens, bathrooms, conservatories, stairways, halls and landings.



# Noise Insulation Pre & Post Testing

The “before” tests were carried out on 29th March 2023. The “after” tests were carried out on 14th November 2023.

Testing is carried out on random properties. The noise sources used for testing include departing/arriving aircraft, loudspeakers and omnidirectional speakers, and we record acoustic performance with both fixed microphones and handheld sound level meters.

The noise insulation performance of the “before” tests at Alton Gardens were reasonably good.

The “after” results were good. However, the performance of the installed windows was so good that test results were compromised by background noise within the flat (low levels of central heating noise). It is likely that the results could have exceeded 40 dB if measured in ideal circumstances with no background sound.

Test Date	Receiving Room		Approx. Area of Test Surface		Result, <i>D</i> <sub>at,2m,nTw</sub> (dB)
	Details	Volume (m <sup>3</sup> )	Wall (m <sup>2</sup> )	Window (m <sup>2</sup> )	
29/03/2023	Bed 1	39	5.5	1.8	33
29/03/2023	Bed 2	32	5.5	1.8	31

Table 3 - "Before" test results

Test Date	Receiving Room		Approx. Area of Test Surface		Result, <i>D</i> <sub>at,2m,nTw</sub> (dB)
	Details	Volume (m <sup>3</sup> )	Wall (m <sup>2</sup> )	Window (m <sup>2</sup> )	
14/11/2023	Bed 1	39	5.5	1.8	36
14/11/2023	Bed 2	32	5.5	1.8	35

Table 4 - "After" test results

# Thank you for listening

We will now have a short break and then take questions.