

Bat Derogation Licence Application – Supporting Document

Lissardagh House

Prepared for: Pat O'Leary and Ann-Marie O'Brien, Lissardagh House, Lissardagh, Co. Cork.

Project: Lissardagh House Renovation, Co. Cork.

Purpose: To inform a bat derogation licence application.

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Date: 04/03/2025

Introduction

O'Donnell Environmental Ltd. were commissioned by Wain Morehead Architects on behalf of Pat O'Leary and Ann-Marie O'Brien in January 2025 to prepare a bat derogation license application in relation to Lissardagh Main House, Lissardagh, Co. Cork in anticipation of upcoming maintenance works. The proposed works at Lissardagh Main House were successfully granted a derogation licence which expired (DER/BAT 2024-74) before the works could be carried out.

The 'Main House', to which the current license application pertains, is in close proximity to Lissardagh Coach House which is the subject of a separate derogation license (DER/BAT 2025-59; see **Appendix C**)). The Coach House is used for non-maternity roosting by a number of species. The methodology and measures outlined herein considers and responds to the measures and conditions relating to the Coach House derogation license application, especially in relation to timing of works whereby the two roof structures will not be worked on simultaneously.

The purpose of the proposed works on the Main House is to address the degradation of the roof and coverings (slate, leadwork, fascia& soffits, etc.) and external render in order to preserve the historic structure and aid ventilation.

The aims of the study were to assess and evaluate the likely importance of the existing structures to bats. The purpose of the current report is to inform a bat derogation license application which will be made to NPWS.

The Client proposes to renovate Lissardagh Main House. Elements of the proposed works which have potential to impact on bats include the following (see **Appendix A** for timeline of works and design information):

- Installation and decommissioning of scaffolding.
- Investigative works to roof and external wall render.
- Removal of existing render and installation of new external wall render.
- West porch and North WC reroofing.
- Roof repairs.
- Chimney works (re-render, coping, leadwork, pots etc.).
- French drain installation.

Investigative works to the roof will largely be external. Similarly, roof repairs (dependant on the results on investigative works) is predicted to be largely external and limited to timber splicing, localised timber treatment, minor slate repair, and lead flashing repair. Attic ventilation will be supplemented with new inline



slate vents at ridge level. It is currently proposed that the existing cellulose attic floor insulation will remain as is currently in place and no variation of insulation is required. The existing sand cement wall render will be replaced with a breathable lime render. The perimeter French drain will be added

Ecofact were engaged by the Client in July 2023 for works pertaining to Lissardagh Main House and a derogation licence was issued which has which has since expired (DER/BAT 2024-74). Current understanding of the importance of the Main House to roosting bats, as presented herein, is primarily informed by Ecofact (2023) (see **Appendix B**), and the Main House was the subject of that report. While the surveys which informed that report were carried out in 2023 and consisted of a single emergence survey only, no significant perturbation has occurred locally and the findings are supported by more recent data collected by O'Donnell Environmental as outlined below, and therefore overall, it is considered that understanding of the bat context of the building is not significantly limited.

O'Donnell Environmental were engaged in June 2024 for works pertaining to the adjacent Coach House. During the course of these surveys, incidental bat data on Lissardagh Main House was gathered. Tom O'Donnell and Colm Breslin of O'Donnell Environmental carried out internal inspections of the attic of Lissardagh Main House on 3rd April 2023 (to inform a quote which was not successful) and again on 10th July 2024 and 16th July 2024 to deploy and retrieve a detector located in the attic of the Main House.

A detector was deployed between the 10th and 16th July 2024 (6 survey nights) to i) to provide data on local ecological context as part of our survey work at the Coach House and ii) validate the list of species previously recorded occurring within the roof space.

A surplus thermal night-vision aid (NVAs) was used on Lissardagh Main House on 13th June 2024 during the course of surveys on the adjacent Coach House. An ultrasonic bat detector was deployed within the viewshed of this camera to confirm species identification of observed individuals exiting the house.

Results

The attic of Lissardagh Main House is used by a number of bats species for roosting and is likely to host a Whiskered Bat maternity roost (Ecofact (2023); see **Appendix B**). Roosting by Myotis sp. (20+ individuals, thought to be Whiskered Bat), Common Pipistrelle and Soprano Pipistrelle was identified within the attic of Lissardagh House (EcoFact, 2023). Bats were identified exiting primarily from the southwestern and northern portions of the roof. Small numbers of bats were recorded exiting from the centre of the southern and western portions of the roof respectively. A count of 27 bats were observed exiting the attic of Lissardagh House on this date. No internal inspection was carried out by Ecofact.

From a relatively brief internal inspection of the attic by O'Donnell Environmental, bats appear to roost in a number of spaces throughout the attic and are largely contained in the void space between the bitumen felt and slate roof. Roosting appeared concentrated at along the ridges and hips of the timber roof structure based on the significant accumulation of droppings beneath these locations.

While roosting by individuals of a variety of bat species were identified diffusely throughout the attic space, accumulations of Soprano and Common Pipistrelle were identified above the southeastern hip-roof section with significant scratching heard in this location. Additionally, Whiskered Bat were identified within the western attic portion with at least 10 individuals on the wing observed within the roost. A dead juvenile Whiskered Bat was identified within the accumulation of droppings underneath this location. Common Pipistrelle was additionally identified centrally within the southern portion of the attic. No other bat species were identified during the course of interior inspections, with the majority of bat signs (scratching) noted within the inaccessible void between the slate and roofing membrane.

It is important to note that the attic space of the main house contains a wide variety of potential roosting spaces (voids surrounding bitumen felt, wooden joinery, exposed interior brickwork etc.) and as such, the entirety of the attic space of Lissardagh Main House should be considered as a roosting space.





Plate 2.1 Whiskered Bat roosting along the ridge beam within the western attic section of Lissardagh House. (Photo by C. Breslin, NPWS Licence Ref. DER/BAT 2024-09; 008/2024).



Plate 2.2 Soprano Pipistrelle within the exposed interior brickwork of Lissardagh House attic. (Photo by C. Breslin, NPWS Licence Ref. DER/BAT 2024-09; 008/2024).



Plate 2.3 Common Pipistrelle roosting in the ridge beam joinery within the attic of Lissardagh House. (Photo by C. Breslin, NPWS Licence Ref. DER/BAT 2024-09; 008/2024)



Plate 2.4 Significant accumulation of bat droppings underneath the hip-roof apex within the western attic portion, with dead juvenile whiskered bat present also.

Passive ultrasonic monitoring was carried out by O'Donnell Environmental within the attic of Lissardagh Main House over 6 nights in the summer of 2024. Full results are presented below (see **Table 3.1**). As identified in Ecofact (2023), roosting by *Myotis* spp. (i.e. Daubenton's Bat, Natterer's Bat and / or Whiskered Bat), Common Pipistrelle and Soprano Pipistrelle were identified within the attic of Lissardagh Main House.

All of the above species were recorded within the attic of Lissardagh Main House during the passive bat monitoring period. In addition, Brown Long-eared Bat was recorded within the attic space. This species was not identified during the course of previous surveys. Small numbers of registrations attributed to Leisler's Bat were recorded. However, due to the intensity and loudness of their calls, and the number of minor gaps present within the overall roof structure, it was considered that these registrations likely occurred from bats outside of the building.



Table 2.1 – Lissardagh Main House Attic Passive Bat Monitoring Results 2024 (number of registrations*)

Survey Night (2024)	BLE^	Common Pipistrelle	Daubentons Bat	Leislers Bat	Natterers Bat	Soprano Pipistrelle	Whiskered Bat	Total
10 July	22	27	5	2	4	1	153	214
11 July	13	6	1	1	0	0	51	72
12 July	43	20	4	1	2	2	75	147
13 July	68	22	14	0	1	0	74	179
14 July	23	20	5	0	1	0	62	111
15 July	34	57	21	0	5	1	103	221
16 July	0	7	2	0	1	0	7	17
Total	203	159	52	4	14	4	525	961

Note: *registration is defined as the presence of bat species in a recording of up to 15 seconds; ^BLE = Brown Long-eared Bat.

The thermal camera and associated ultrasonic detector overlooking the western aspect of Lissardagh Main House on 13th June 2024 recorded Whiskered Bat exiting from the southwestern portion of the roof, as was identified in the previous EcoFact report (see **Appendix B**).



Plate 2.5 Viewshed of thermal camera overlooking the western aspect Lissardagh Main House.



Plate 2.6 Thermal viewshed of camera overlooking the western aspect Lissardagh Main House, showing Whiskered Bat exiting from the southwestern portion of the fascia-soffit (white arrow).

Potential Impacts

Lissardagh Main House hosts roosting by a variety of bat species, including maternity roosting by at least one species (Whiskered Bat). Six of the nine bat resident Irish bat species have been recorded within the attic of Lissardagh Main House.

If the proposed works does not proceed, the 'do nothing' scenario is that the existing environment within the site boundary is likely to remain as described herein in the short term at least. In the medium and long terms (in the absence of intervention) there degradation of the roof would occur through insufficient ventilation and water ingress.

The proposed works in the attic of Lissardagh Main House consist of maintenance only, and following works is proposed that bat roosting will continue as currently occurs. However, in the absence of avoidance and mitigation measures, negative effects on roosting bats would occur on a temporary basis.

Mitigation

A mitigate-by-design approach was adopted in the design of the proposed development and O'Donnell Environmental Ecologists collaborated with WMA Architects Ltd. to incorporate avoidance and mitigation measures for bats in the emerging design. Provision has been made for all bat species recorded within the attic of Lissardagh Main House and the schedule of works coordinates with the proposed works at Lissardagh Couch House as required by DER/BAT 2025-59 (see **Appendix A** for the sequencing of works).



Bats and their roosts are protected by legalisation, and <u>the proposed works may only proceed following the</u> <u>grant of a derogation license issued under Regulation 54 of the European Communities (Birds and Natural Habitats) Regulations (2011)</u>. Notwithstanding any conditions of that license, should it be granted, the following measures will be implemented to minimise risks to bats:

Timing of works:

Reason and Wray (2023) outline the optimal timing of works of known bat roosting structures. Whiskered Bat are unlikely to overwinter in the attic. Due to the occupied nature of the house and the warm attic, no winter restrictions (December-March inclusive) are considered warranted in this instance.

A seasonal restriction on works to avoid disturbance of the maternity colony is considered warranted and so no roof works will take place on Lissardagh Main House during the maternity season (May-September inclusive). Works with potential to cause disturbance (i.e. scaffolding installation, existing render removal, investigative works, roof repair, chimney works) will all take place outside of the core maternity season or be managed to ensure no negative effects occur. The extent of internal roof repair works will be dependent on investigative works but are predicted to be limited in extent to timber splicing and localised timber treatment.

During rendering portions surrounding the primary bat access/egress at the southwest corner will be prioritised such that no works will take place surrounding this section during the maternity season. Due to the seasonal constraints of lime render installation which is slow-curing and requires extended periods of mild weather, some rendering works will unavoidably extend into early May. These works will be minimally invasive for bat species and will be scheduled such that in May they will take place at the lower portions of the external walls away from where bat access/egress occurs. The render finish coat (Argatherm) will be applied outside of the maternity season.

By the 30th April 2025 scaffolding height proximal to the identified access / egress point on the south-west corner of the Main House will be lowered by one level (minimum 2 meters from the eaves) to avoid any disturbance to emerging or re-entering bats.

No night-time works are proposed, and no construction phase or security lighting will be allowed.

External investigative works to the roof and render, will take place concurrently with existing render removal.

A bat-licensed ecologist will supervise the above works as detailed below.

Supervision of works:

Prior to the commencement of all demolition works, a bat-licensed ecologist will be onsite to carry out repeat daytime inspections and monitoring where appropriate. A bat licensed Ecologist will be engaged to provide a toolbox talk on site at commencement of works and to supervise key aspects of the proposed works including existing render removal, external roof investigative works, roof works. Demolition works that interact with the attic including investigative works will take place with hand tools to minimise the potential impact to any bats roosting within. External roof investigative works will not take place across the entire roof structure such that bats will be able to move to undisturbed portions.

Lighting:

In order to avoid potential impacts of lighting on roosting/foraging bats, construction works will only take place during daylight hours, and the site will not be lit during the hours of darkness excluding any existing security lighting which is already in place

Provision of access post-works:

The entirety of the attic of Lissardagh Main House is currently accessible to bats. The existing roof structure provides an abundance potential access/egress location through loose lead flashing and gaps in the fascia soffit. It is currently proposed to leave the entirety of the attic as it currently exists for bat species following the completion of works. This measure supercedes that contained in the previous derogation licence which proposed bat compartments as they are not considered a viable mitigation given the number of species involved and the complexity of the roof.



In order to facilitate access post-works, it is proposed that the primary access/egress points on the southwestern and northern portion of the roof are maintained at a minimum. Recent guidance has shown that the likelihood of bats returning to their roosting location is reduced significantly if entrances are not sited proximal to the original location, and distances of greater than 50cm should be avoided (Jahelkova et al., 2024). Additional access/egress points will be created in the leadwork in agreement with the supervising bat-licensed ecologist onsite to maintain a variety of access/egress points for bat species. No artificial lighting will conflict with the location of bat access.

Materials:

The use of bat-safe construction materials may only be used within the attic if required. Underlay within the attic may only be composed of traditional bitumen felt (1F) as it currently found within the attic.

Any timbers must be pressure treated offsite. Onsite application of wood preservative should be avoided, and if necessary, only products certified to be 'bat safe¹' will be used (see **Appendix D**). The bat-licensed Ecologist will be consulted in relation to any onsite treatment of timber, and details of treatments used will be recorded and included in a post-construction compliance report which will be issued to NPWS.

The bat-licensed Ecologist will carry out a final inspection to confirm that the attic roost has been maintained as it currently exists.



Derogation Licence Application Checklist

The table below provides responses to four key issues which will be considered during the derogation license decision making process.

Explanation as to why the derogation licence sought is the only available option for works and no suitable alternative exists as per Regulation 54 of the European	
Communities (Birds and Natural Habitats) Regulations. Pat O'Leary and Ann-Marie O'Brien intend to carry out necessary maintenance works on Lissardagh House. The attic of Lissardagh House is currently threatened by minor water ingress and the trapping of moisture. The purpose of the proposed works is to address the degradation of the roof and coverings (slate, leadwork, fascia & soffits, etc) and external render in order to preserve the historic structure and aid ventilation.	
Alternative solutions were considered, and the best available solution has been proposed . The alternative / 'do-nothing scenario' in this instance is not carry out necessary maintenance. In the absence of maintenance, the existing timber and general roof degradation would result in the deterioration of the attic space as a viable roosting space for a variety of bat species, including a locally important Whiskered Bat maternity colony in the medium term (7-15 years following EPA, 2022). Continued lack of maintenance would result in the complete loss of the attic space as a roosting space for bat species in the medium-long term.	
Evidence that actions permitted by a derogation licence will not be detrimental to the maintenance of the populations of the species to which the Habitats Directive relates at a favourable conservation status in their natural range as is required under Section 54(2) of the European Communities (Birds and Natural Habitats) Regulations.	
Based on best available information from previous surveys and derogation licence (see Appendix B), the attic of Lissardagh House is resident to a large variety of bat species, including maternity roosting of Whiskered Bat. Roosting is concentrated at particular aspects of the attic throughout (hip roof joinery, ridges etc.). Provision has been made for all of the species identified within the attic.	
The proposed works primarily involve maintenance of the eternal wall render and minor roof repairs. Disturbance will be localised in extent and time.	
Avoidance is the principle measure being employed for the proposed works, with no works to the roof within the maternity season. These works will take place outside of the maternity season when bats are active and least prone to disturbance (Reason and Wray, 2023).	
The existing attic will be maintained as it currently exists and left fully accessible to bats post-works. The primary bat access/egress points will be maintained to facilitate continued access.	
The proposed works will be carried out under the supervision of a bat-licensed ecologist.	
It is considered that the proposal will not be detrimental to the maintenance of the bat populations at a favourable conservation status in their natural range and that the proposal will not have a detrimental effect on the local bat populations.	
Details of any mitigation measures planned for the species affected by the derogation at the location, along with evidence that such mitigation has been	\boxtimes
successful elsewhere. A detailed summary of mitigation measures are outlined in this supporting document.	
As much information as possible to allow a decision to be made on this	\boxtimes
application.	
Full information is outlined in this supporting document, and this information is considered valid and represents the best available data.	



References

- Collins J. (Ed.) (2023). Bat Surveys for Professional Ecologists: Good Practice Guidelines (4th Edition). The Bat Conservation Trust, London.
- EPA (2022). Guidelines on the Information to be Contained in Environmental Impact Assessment Reports.
- Jahelková, H., M. Ceľuch, J. Ferguson, E. Cepáková, A. Kepel, H. Krättli, H. Limpens, S. D. Mantoiu, M. Schillemans, P. Schnitzerová, K. Stoner, S. Waring (2024): Guidelines for bats, insulation and lining materials. EUROBATS Publication Series No. 11. UNEP/ EUROBATS Secretariat, Bonn, Germany, 64 pp.
- Marnell, F., Kelleher, C., Mullen, E. (2022). Bat mitigation guidelines for Ireland. National Parks and Wildlife Service. Department of Housing, Local Government and Heritage. Irish Wildlife Manuals, No.134, 2022.
- Reason, P.F. and Wray, S. (2023). UK Bat Mitigation Guidelines: a guide to impact assessment, mitigation and compensation for developments affecting bats. Chartered Institute of Ecology and Environmental Management, Ampfield.



Appendix A Design Information and Sequencing of Works

Lissardagh House																																	
Preliminary works programme																																	
Select a period to highlight at right. A legend describing the charting follow	ws.				Period High	li 1	II F	lan Du	iration	A	ctual S	Start	% Corr	plete	Ac	tual (b	eyond	plan)	9	6 Comp	olete (k	beyond	l plan)										_
ACTIVITY	PLAN START	PLAN DURATION	ACTUAL START	ACTUAL DURATION	PERCENT COMPLETE	PERI	ODS 2 3	F 4 5	6 7 8	N 9 10	л 0 11 1	2 13 1	A 4 15 16	17 18	M 19 20	21 22	J 23 24	25 26	J	28 29 3	A	A 32 33 3	34 35	S 36 37	7 38 3	39 40	0 41 42	43 4	N 1 45 4	16 47 4	D	50 51 5	2
Bats: Seasonal constraint: No roof works permitted	19	22																															
RLQS: Review budget estimate for main house	4	1			25%																												
TOD: Issue fee proposal for bat derogation application	4	1			100%																												
TOD: Apply for bat derogation license	9	1																															
NPWS: Process bat derogation application	9	4			35%																												
WMA: complete RIAI Stage 2	4	5																															
WMA: Prepare detail Dwgs/Spec for tender	6	4			10%																												
RLQS: Prepare the Tender BOQ	8	2			85%																												
WMA: Crosscheck BOQ and Dwgs/Spec	9	1			50%																												
WMA & RLQS: Agree tender list & confirm interest	7	3																															
WMA & RLQS: Issue tender for 3 week return	10	3			100%																												
RLQS/WMA: Review and report on tender	13	1			0%																												
Contractor Appointment	14	1			50%																												
Contractor:Mobilise site & French drain to perimeter	15	1																															
Contractor: Install scaffolding	16	1			0%																												
Contractor: Investigative works to roof & render	17	2																															
Contractor: Hack off existing render	17	2			1%																												
Contractor: Install insulated render	18	2			80%																												
Contractor: Insulated render drying time	20	5			0%																												
Contractor: Install Argatherm coloured finish render	41	1																															
Contractor: Reroof west porch	16	3																															
Contractor: North WC annex: test asbestos roof	17	1																															
Contractor: North WC annex: remove asbestos (if required)	41	1																															
Contractor: North WC annex: reroof	42	3																															
Contractor: Roof works	41	6			0%																												
Contractor: Attic insulation and bat mitigation measures	46	2																															
Contractor: chimney works: Hack off existing & rerender	41	3																															
Contractor: chimney works: render drying time	44	3																															
Contractor: new chimney coping, leadwork, pots, etc	45	3																															
Contractor: Coach house misc works	19	29																															









Appendix B Previous Survey Data

Bat survey of Lissardagh House, Lissardagh, Co Cork



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TABLE OF CONTENTS

1.	INTROD	UCTION	3			
1	.1 BAT S	PECIES IN IRELAND	3			
1	.2 LEGIS	LATION RELATING TO BATS	3			
	1.2.1	Wildlife Act 1976	3			
	1.2.2	EU Habitats Directive	3			
	1.2.3	Bern and Bonn Conventions	4			
	1.2.4	Derogation licences	4			
2.	METHO	DOLOGY	6			
2	.1 Guidi	ELINES	3			
2	.2 Desk	STUDY	3			
2	.3 FIELD	SURVEYS	3			
3.	PROJEC	T PROPOSAL	7			
4.	RESULT	S8	3			
4	.1 Desk	STUDY	3			
	4.1.1	Previous Records	8			
4	.2 FIELD	SURVEY	3			
	4.2.1	Daytime Inspection	8			
	4.2.2	Emergence Watch	9			
5.	IMPACT	S1()			
6.	MITIGAT	10N10)			
PL/	ATES	12	2			
REF	REFERENCES					

Date	Revision	Status	Author	Reviewed By
12-09-23	1.2	Issued	GW/WOC	WOC



1. INTRODUCTION

Ecofact were commissioned to undertake a bat survey Lissardagh House, Lissardagh, Co Cork. The site is location is given in Figure 1 below. The current report provides the results of a daytime inspection, emergence watch and activity survey.

1.1 Bat species in Ireland

There are eleven recorded bat species in Ireland, nine of which are considered resident on the island. Eight resident bat species and one of the vagrant bat species are members of the Vespertilionidae family. The ninth resident species is the Lesser Horseshoe Bat *Rhinolophus hipposideros*, which belongs to the Rhinolophidae family.

The resident Irish bat species are:

- Daubenton's bat (Myotis daubentionii)
- Whiskered bat (Myotis mystacinus)
- Natterer's bat (*Myotis nattereri*)
- Leisler's bat (Nyctalus leisleri)
- Nathusius' Pipistrelle (Pipistrellus nathusii)
- Common Pipistrelle (*Pipistrellus pipistrellus*)
- Soprano Pipistrelle (*Pipistrellus pygmaeus*)
- Brown Long-eared bat (*Plecotus auritus*)
- Lesser Horseshoe Bat (*Rhinolophus hipposideros*)

Other bat species (vagrants) recorded are:

- Brandt's bat (Myotis brandtii)
- Greater horseshoe bat (*Rhinolophus ferrumequinum*)

1.2 Legislation Relating to Bats

Bats are strictly protected under both national and international law. The purpose of this legislation is to maintain and restore bat populations within their natural range. This implies that the habitats on which they rely and the ecology of their life cycles should not be compromised by human activities. Where activities have the potential to compromise bat populations, measures are required to be put in place to avoid impacts or compensate and mitigate for those impacts. The key legislation which provides protection to bats is outlined below.

1.2.1 Wildlife Act 1976

In the Republic of Ireland, all bats and their roosts are protected under Schedule 5 of the *Wildlife Act 1976* (amended 2000). It is unlawful to disturb either without the appropriate Licence.

1.2.2 EU Habitats Directive

In addition to domestic legislation bats are also protected under the *EC Directive on the Conservation of Natural habitats and of Wild Fauna and Flora* (Habitats Directive 1992). This Directive seeks to protect rare species, including bats, and their habitats and requires that appropriate monitoring of populations be undertaken. All bat species are protected under Annex IV of the EU Habitats Directive,



while the lesser horseshoe bat (*Rhinolophus hipposideros*) is listed under Annex II. Member states are required to designate Special Areas of Conservation for all species listed under Annex II in order to protect them. The EU Habitats Directive has been transposed into Irish law with the European Communities (Birds and Natural Habitats) Regulations 2011.

A total of 41 SACs have been designated for the Annex II species lesser horseshoe bat (1303), of which nine have also been selected for the Annex I habitat 'Caves not open to the public' (8310).

1.2.3 Bern and Bonn Conventions

Ireland has also ratified two international conventions which afford protection to bats amongst other fauna. These are known as the 'Bern' and 'Bonn' Conventions. *The Convention on the Conservation of European Wildlife and Natural Habitats* (Bern Convention 1982), in relation to bats, exists to conserve all species and their habitats. *The Convention on the Conservation of Migratory Species of Wild Animals* (Bonn Convention 1979, enacted 1983) was instigated to protect migrant species across all European boundaries, which covers certain species of bat.

1.2.4 Derogation licences

Any works interfering with bats and especially their roosts, may only be carried out under a derogation Licence granted by National Parks and Wildlife Service (NPWS) pursuant to Regulation 54 of the European Communities (Birds and Natural Habitats) Regulations 2011 (which transposed the EU Habitats Directive into Irish law).

The destruction, alteration or evacuation of a known bat roost is a notifiable action and can only be carried out with a derogation licence from the National Parks and Wildlife Service. Any works that might interfere with bats or their roost sites can only be carried out under licence to derogate from Regulation 23 of the Habitats Regulations 1997 and Regulation 54 of the European Communities (Birds and Natural Habitats) Regulations 2011 (which transposed the EU Habitats Directive into Irish Law). Details with regards to Appropriate Assessments, procedures and parameters under which derogation licences may be obtained are outlined in Circular Letter NPWS 2/07 *Guidance on Compliance with Regulation 23 of the Habitats Regulations 1997 – strict protection of certain species / applications for derogation licences'* issued on the 16th of May 2007 on behalf of the Minister of the Environment, Heritage and Local Government.





Figure 1 Location of Lissardagh House, Lissardagh, Co Cork



2. METHODOLOGY

2.1 Guidelines

The survey and assessment had regard to the methodology outlined in:

- Bat Mitigation Guidelines for Ireland v2 by Marnell et al., (2022)
- Bat Tree Habitat Key (BTHK) by Andrews, H (2018).
- Bat Surveys for Professional Ecologists: Best Practice Guidelines 3rd Edition by Collins (2016)
- Guidance on the strict protection of certain animal and plant species under the Habitats Directive in Ireland by NPWS (2021)
- Bat Workers' Manual 3rd Edition by JNCC (2004) and
- British Bat Calls: A Guide to Species Identification (Russ, 2012).

Roost Type	Definition
Day Roost	A place where individual bats, or small groups of males, rest or shelter in
	the day but are rarely found by night in the summer.
Night Roost	A place where bats rest or shelter in the night but are rarely found in the
	day. May be used by a single individual on occasion or it could be used
	regularly by the whole colony.
Feeding Roost	A place where individual bats or a few individuals rest or feed during the
	night but are rarely present by day.
Transitional/occasional Roost	Used by a few individuals or occasionally small groups for generally short
	periods of time on waking from hibernation or in the period prior to
	hibernation.
Swarming Site	Where large numbers of males and females gather during late summer
	to autumn. Appear to be important mating sites.
Mating Sites	Where mating takes place from late summer and can continue through
	winter.
Maternity Roost	Where female bats give birth and raise their young to independence.
Hibernation Roost	Where bats may be found individually or together during winter. They
	have a constant cool temperature and high humidity.
Satellite Roost	An alternative roost found in close proximity to the main nursery colony
	used by a few individual breeding females to small groups of breeding
	females throughout the breeding season.

Table 1 Definition of bat roost types adapted from Collins (2016).

2.2 Desk study

The bat suitability of habitat in the study area for bats was obtained using the National Biodiversity Data Centre (NBDC) database. This map provides a picture of the broad scale geographic patterns of occurrence and local roosting habitat requirements for Irish bat species. The maps are a visualization of the results of the analyses based on a 'habitat suitability' index. The index ranges from 0 to 100, with 0 being least favourable and 100 most favourable for bats (Lundy *et al* 2011). The NBDC online National Bat Database of Ireland was also accessed to review bat records in the study area.

2.3 Field Surveys

The was visited on the 5^{th of} July 2023. This survey involved a daytime inspection of the site during daylight hours. The surveys involve looking for evidence of roosting bats including live bats, remains of dead bats, droppings, staining, and feeding remains.

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An emergence and activity survey was undertaken following the site inspection on the 5th July 2023. The survey was completed from 30 minutes before dusk to 2 hours after dusk. The surveys involved the use of handheld bat detectors (Elekon Batscanner, Echo Meter Touch Pro 2, Anabat Express). Bat species emerging form the building and using the site were recorded. The weather conditions were ideal for the surveys and it was completed within the appropriate season.

3. PROJECT PROPOSAL

The project proposal is to carry out repair works to the roof of the house. An outline scope of works has been prepared by Wain Morehead Architects. This includes a proposal for remedial roof works, remedial chimney works, works to the south façade, external landscaping, attic insulation works, works on the potch, paining works, and works on the courtyard building.



4. **RESULTS**

4.1 Desk Study

The National Biodiversity Data Centre (NBDC) maps landscape suitability for bats based on Lundy et al., (2011). The maps are a visualisation of the results of the analyses based on a 'habitat suitability' index. The index ranges from 0 to 100, with 0 being least favourable and 100 most favourable for bats. Table 1 below gives the suitability of the study area for the bat species found in Ireland (based on NBDC) along with their Irish Red List Status (from Marnell et al., 2009). The overall assessment of bat habitats for the current study area is given as 32, which is considered to be low. However, the rating for a number of bat species (Brown Long-eared, Soprano Pipistrelle, Common Pipistrelle, Natterer's bat) is moderate.

Common name	Scientific name	Suitability index	Irish red list status
All bats		32	
Soprano pipistrelle	Pipistrellus pygmaeus	42	Least Concern
Brown Long-eared bat	Plecotus auritus	49	Near Threatened
Common Pipistrelle	Pipistrellus pipistrellus	40	Least Concern
Lesser Horseshoe Bat	Rhinolophus hipposideros	12	Least Concern
Leisler's bat	Nyctalus leisleri	39	Least Concern
Whiskered bat	Myotis mystacinus	31	Least Concern
Daubenton's bat	Myotis daubentonii	30	Least Concern
Nathusius' Pipistrelle	Pipistrellus nathusii	4	Least Concern
Natterer's bat	Myotis nattereri	41	Least Concern

Table 2 Suitability of the study area for the bat species previously recorded in the Leixlip area (based on the NBDC data). Irish Red list status also indicated (based on Marnell *et al.*, 2009).

4.1.1 Previous Records

According to the National Bat Database of Ireland as viewed on the National Biodiversity Data Centre, the closest bat record is from approximately 1km southwest of the subject site and is a Daubenton's bat roost in a bridge. There is also a record of a Whiskered Bat roost located approximately 2km west of the site. There is also a record of Brown Long-eared bat roost approximately 2km southwest of the site. There are no other records in the general area of the site.

4.2 Field Survey

4.2.1 Daytime Inspection

The subject site was visited on the 5th of July 2023. The main focus of the survey was the dwelling house onsite. Lissardagh House is a 3-storey Georgian home constructed in the mid 1800s. This house is currently lived in and there are several outbuildings on the site. An external inspection was undertaken and several potential ingress / egress points were noted. These were mainly located in the eaves of the roof, with the mostly suitable locations at the four corners. The roof hips and valleys which were visible from the ground also had some potential ingress and egress points. Due to the shape of the roof, the inner area was not visible from the ground. These areas were focused on during the emergence watch. The habitat around the house consisted of lawns, gardens, mature trees, access roads and a small courtyard. The lawns and gardens were well maintained.



4.2.2 Emergence Watch

Two ecologists were onsite for the emergence and activity survey. One ecologist focussed primarily on the northern side of the building and the other on the south. The temperature at the beginning of the survey was 12°C with no precipitation. Insect activity was low to moderate throughout the survey.

Dusk on July 5th was at 22.44pm and the survey commenced at 22.03pm. The first bat was recorded emerging from the southwest corner of the roof at 22.15pm. This bat, and one which emerged immediately after it were not picked up by the detectors. At 22.23pm a confirmed *Myotis* sp. was recorded emerging from this point. Following these recordings, a further 10 bats were recorded emerging. These were all *Myotis* sp. bats and it was considered that they were most likely to be Whiskered bats. Myotis bats are difficult to identify to species levels using detectors. Indeed, DNA sampling is required to be definite about the species.

In addition, a single bat was recorded emerging from the eave in the centre of the roof facing south prior to dusk. Another bat was recorded coming from the roof. The identification of these bats could not be confirmed. Bats also emerged from the middle of the roof to the west. On the northern side of the house there were a further 10 bats were recorded emerging. These were both *Myotis* sp. and pipistrelle species, most likely all Common Pipistrelles. In total, n=27 bats were recorded emerging from the subject building.

After emergence there was a drop in activity. The *Myotis* sp. bats immediately left the main area of the house flying along the outbuildings and into the wooded area. They were on occasion picked up around the main house after emergence. Pipistrelles were recorded in the area of the main house after emergence. Soprano Pipistrelles were commonly recorded foraging in the yard between the main house and the outbuildings. In the wider area of the site Leisler's and *Myotis* sp., were recorded during the activity survey. There is a road on the site to the south where a *Myotis* sp. bat was recorded foraging at 23.44pm. Common pipistrelles were also recorded in this area around the same time.

The building is confirmed as being a bat roost. It is being used by a significant number of Myotis sp. bats thought to be Whiskered bats (20+). There are also a small number of Pipistrelle bats roosting in the building. Both Common and Soprano Pipistrelles were recorded (<10). The status of the roost for Myotis sp. bats is not known but is likely to be a maternity roost. Whiskered bat maternity colonies usually consist of 20-60 females (Schober & Grimmberger, 1990) and the numbers present at this site are at the lower end of this scale. However, male and non-breeding female Whiskered bats are usually solitary bats. Further survey work would be required to determine the status of this roost; however, it will be assumed that this is a maternity roost. Leisler's bats were also recorded during the survey but they were not roosting in the building.



5. IMPACTS

No works can take place on the house in the absence of a derogation licence. This would include all the works listed in the Wain Morehead Architects report, and any preparatory work.

All bats and their roosts are *strictly protected* in Ireland and listed under Annex IV of the EU Habitats Directive. The EU Habitats Directive has been transposed into Irish law with the *European Communities* (*Birds and Natural Habitats*) Regulations (2011) (S.I. No. 477/2011). All bat species are also protected here under the *Wildlife Act* (1976) and *Wildlife (Amendment) Act* (2000) (S.I. No. 38 of 2000). Impacts on bats may also be the subject of claims under the *European Communities (Environmental Liability)* Regulations (2008) (S.I. No. 547/2008) where bat and their roosts may have been adversely affected by unauthorised activities.

Some specific comments on the propsoal are as follows:-

- Assuming weatherproofing the roof involves sealing all holes and gaps the permanent loss of the roost will occur.
- It is planned to install scaffolding on southeast corner this is where most of the bats were observed. Works here to open the area would directly impact the ingress/egress point.
- Remedial works to slating, leadwork, hips, ridges, valleys may also remove ingress/egress points.
- CCTV is proposed to be installed on the southern wall. If this includes a sensor light near roost entry and exits this would reduce roost suitability.
- All works in the attic including insulation would result in roost no longer being used.
- Chemicals used to treat roof timbers could also cause issues.
- If any roof works are undertaken in the summer disturbance impacts from noise, increased human activity and lighting.
- Bats exiting the roof flew along the edge of the south facing outbuilding, which has a lot of ivy growth. If this was illuminated for example by lighting associated with CCTV this could cause disturbance and potential loss of the roost.

6. **MITIGATION**

- A derogation Licence under Regulation 25 of the European Communities (Natural Habitats) Regulations 1997 will be obtained for this work from the *National Parks and Wildlife Service* in advance. No work on any of the buildings can be undertaken without this licence being in place. Disturbance of a known bat roost is a notifiable action under current national and European legislation.
- No lighting, CCTV, or painting should also be completed on the house without a derogation licence and mitigation being in place.
- Internal inspections can also only be undertaken outside of the active bat season and will also
 require a derogation licence to be in place. Internal inspections would be required to identify
 areas where bats are currently roosting, and also be required to confirm bats aren't hibernating
 there. However, as the house is occupied it is unlikely that bats will be hibernating here as it
 will be too warm.
- Works can be planned for outside active bat season (e.g. October to April) and completed under a derogation licence. The best approach would be to accommodate the bats in the roof/attic in



a managed way. Internal inspections can identify areas for where artificial roost compartments could be installed. These would be closed off areas of the attic designed to limit the areas accessible by bats, but nonetheless allow bats to continue to use the roost. Two of these small "bat lofts" would be required – one for Myotis sp. bats and one for Pipistrelles. These would be closed off areas of the attic designed to be artificial roosts compartments. To facilitate access to these compartments, gaps would be left in the roof so that bats could enter. Incorporating gaps where the existing ones are would be the ideal approach to allow bats to re-enter into artificial roost compartments. An internal inspection will identify the most suitable areas for this but likely the southeast corner and other area along the eaves would be suitable. This can be done with simple gaps left in the masonry, soffit gaps, raised lead flashing or purpose-built bat entrances (Marnell *et al.* 2022). Ridge tiles and raised roofing tiles may also be incorporated.

- The designs of the access tiles and compartments would follow the Bat Mitigation Guidelines (Marnell *et al.* 2022) and would need to be designed with an ecologist.
- The small bat lofts would constitute areas cut off from the rest of the attic. This is the ideal solution as the roost is maintained but in a more managed and controlled way.
- If providing ongoing access to the attic / roof area for bats is not agreeable to the house owner, artificial roosts away from the house could be provided instead. This would have a reduced likelihood of success and would require the permanent exclusion of bats from the attic. This approach would also require a derogation licence and may include the provision of bat boxes / artificial roosts away form the house. The possible modification of one of the outbuildings could also be explored. This is not the preferred approach and it would be more difficult to get a derogation licence. But if the bats are causing issues for the homeowner, then this may have to be the option pursued.
- To support the derogation licence more surveys should ideally be undertaken. A full night and dawn swarming survey in early September would be an informative survey to complete. An out of season internal survey of the attic will also be required.
- Any chemicals and materials used inside the roof will need to be approved by an ecologist if the roof roost is to remain.
- Some additional landscaping for bats could be provided with night scented plants.
- Bat Conservation Trust & Institute of Lighting Professionals (2018) guidance may also be followed in relation to any lighting, as well as Bat Conservation Ireland's *Bats & Lighting: Guidance Notes for Planners, Engineers, Architects and Developers* (2010).



PLATES



Plate 1 Eastern face of the subject house. During the activity survey a Soprano pipistrelle was often recorded foraging here.



Plate 2 The south-eastern section of the house immediately before the survey commenced. Approximately 12 bats were recorded emerging from this corner.



Plate 3 Western face of the subject house. Bats were recorded emerging from the roof here.





Plate 4 The surrounding area consists of ornamental gardens, mature trees and well managed lawns.



Plate 5 Outbuildings on the proposed development site.



Plate 6 Sensor lighting on the proposed development site. There were sensor lights to the north and east of the house.



REFERENCES

Bat Conservation Ireland (2010). Bats & Lighting: Guidance Notes for Planners, Engineers, Architects and Developers.

https://www.batconservationireland.org/wpcontent/uploads/2013/09/BCIrelandGuidelines_Lighting.pdf

Bat Conservation Trust & Institute of Lighting Professionals (2018) Bats and Artificial Lighting in the UK. Guidance Note 08/18 Institute of Lighting Professionals, Warwickshire. https://cdn.bats.org.uk/uploads/pdf/Resources/ilp-guidance-note-8-bats-and-artificial-lightingcompressed.pdf?v=1542109349

Collins, J. (ed.) (2016) Bat Surveys for Professional Ecologists. Good Practice Guidelines. Bat Conservation Trust, London. <u>http://www.bats.org.uk/pages/batsurveyguide.html</u>

Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention) 1982.

Convention on the Conservation of Migratory Species of Wild Animals (Bonn Convention) 1979.

EC Directive on The Conservation of Natural habitats and of Wild Fauna and Flora (Habitats Directive) 1992. <u>http://www.coe.int/en/web/conventions/full-list/-/conventions/treaty/104</u>

Kelleher, C. & Marnell, F. (2006) Bat Mitigation Guidelines for Ireland. Irish Wildlife Manuals, No. 25. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin, Ireland. <u>https://www.npws.ie/sites/default/files/publications/pdf/IWM25.pdf</u>

Lundy, MG, Aughney T, Montgomery WI, Roche N (2011) Landscape conservation for Irish bats & species-specific roosting characteristics. Bat Conservation Ireland. http://www.batconservationireland.org/wp-content/uploads/2013/09/Landscape Conservation Irish Bats.pdf

Marnell, F., Kingston, N. & Looney, D. (2009) Ireland Red List No.3: Terrestrial Mammals, National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin, Ireland. <u>https://www.npws.ie/sites/default/files/publications/pdf/RL3.pdf</u>

Marnell, F., Kelleher, C, & Mullen, E. (2022) Bat Mitigation Guidelines for Ireland v2. *Irish Wildlife Manuals* No. 134. National Parks and Wildlife Manuals. Department of Housing, Local Government and Heritage, Ireland.

https://www.npws.ie/sites/default/files/publications/pdf/IWM134.pdf

National Biodiversity Data Centre (2021). All-Ireland Pollinator Plan 2021-2025. https://pollinators.ie/wp-content/uploads/2021/03/All-Ireland-Pollinator-Plan-2021-2025-WEB.pdf

NRA, (2006). Best Practice Guidelines for the Conservation of Bats in the Planning of National Road Schemes. Dublin: National Roads Authority.

Russ, J. (2012). *British Bat Calls: A Guide to Species Identification.* Pelagic Publishing. ISBN-13:978-1907807251.

Schober, W. & E. Grimmberger (1993) A Guide to Bats of Britain and Europe. Hamlyn; New edition.



Stone, E.L., Harris, S. and Jones, G., 2015. Impact of artificial lighting on bats: A review of challenges and solutions. Mammalian Biology, 80, **3**, 213-219. <u>https://www.researchgate.net/publication/272889669_Impacts_of_artificial_lighting_on_bats_A_review_of_challenges_and_solutions</u>

Stone, E.L., Jones, G. and Harris, S., 2009. Street lighting disturbs commuting bats. Current Biology, 19, 1-5. <u>https://www.ncbi.nlm.nih.gov/pubmed/19540116</u>



Appendix C Previous Derogation Licence



Licence No.: DER/BAT 2024 - 74

EUROPEAN COMMUNITIES (BIRDS AND NATURAL HABITATS) REGULATIONS, 2011 (S.I. No 477 of 2011)

DEROGATION LICENCE

Granted under Regulation 54 of the European Communities (Birds and Natural Habitats) Regulations 2011, hereinafter referred to as "the Habitats Regulations".

The Minister for Housing, Local Government and Heritage, in exercise of the powers conferred on him by Regulation 54 of the Habitats Regulations hereby grants to **Pat O'Leary, Lissardagh House, Lissardagh, Co. Cork** supervised by **William O'Connor, Ecofact Environmental Consultants Ltd, Tait Business Centre, Dominic Street, Co. Limerick V94 NW81**, a licence. It is stated that:

(A) In the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment.

(B) There is no satisfactory alternative, and the action authorised by this licence will not be detrimental to the maintenance of the population of **bats** referred to below at a favourable conservation status in their natural range.

The licence is issued in respect of the following **bat species**:

- natterer's bat
- common pipistrelle
- soprano pipistrelle
- daubenton's bat
- whiskered bat

Myotis nattereri Pipistrellus pipistrellus Pipistrellus pygmaeus Myotis daubentonii Myotis mystacinus

This licence authorises the following:

- (a) Roost disturbance;
- (b) Actions authorised within the licence

This licence is subject to the terms and conditions set out overleaf.

Terms and Conditions

- 1. This licence is granted solely to allow the activities specified in connection with the **roof repairs** located at **Lissardagh House**, **Lissardagh**, **Co. Cork**, for **Pat O'Leary**.
- 2. All activities authorised by this licence, and all equipment used in connection herewith, shall be carried out, constructed and maintained (as the case may be) so as to avoid unnecessary injury or distress to any species of **BAT**.
- 3. This licence may be modified or revoked, for stated reasons, at any time.
- 4. Bats to be accommodated in the roof/attic in two artificial roost compartments, with their location to be optimised and specified following an internal inspection by a bat specialist.
- 5. To facilitate access by bats to these compartments, gaps will be left in the roof to specialist's specification. The designs of the access points and of the compartments will follow the NPWS's Bat Mitigation Guidelines (2022) and will be designed with an ecologist. Options tbc include: eg soffit gaps, raised lead flashing, purpose-built bat entrances, or raised roof/ridge tiles.
- 6. Any chemicals and materials used inside the roof will be bat friendly.
- 7. If bats are encountered during the works, the ecologist and the NPWS will be contacted immediately and works ceased. The contact details for the ecologist and the NPWS will be available to personnel onsite.
- 8. Security lighting will be installed (if needed) so as not to illuminate the areas of the roof where the bats enter/exit the building.
- 9. The mitigation measures outlined in the application report (Bat Survey of Lissardagh House, Lissardagh, Co. Cork, pgs.10-12), together with any changes or clarification agreed in correspondence between NPWS and the agent or applicant, are to be carried out. Strict adherence must be paid to all the proposed measures in the application.
- 10. The actions which this licence authorise shall be completed between the 1st October 2024 and 31st December 2024.
- 11. The works will be supervised by bat ecologist William O'Connor.

- 12. If this licence addresses works that are subject of a planning application, no such works permitted under this licence can occur until planning permission is granted.
- 13. If this licence expires prior to works permitted under this licence commencing, a new application must be sought in advance, including the provision of any updated data or reports.
- 14. This licence shall be produced for inspection on a request being made on that behalf by a member of An Garda Síochána or an authorised NPWS officer appointed under Regulation 4 of the Habitats Regulations.
- 15. The local National Parks and Wildlife Service field officer **Declan O'Donnell**, <u>Declan.ODonnell@npws.gov.ie</u>, +353 15393396 should be contacted prior to the commencement of any activity, and if bats are detected on site during the course of the work, under the terms of this licence.
- 16. On completion of the activities authorised by this licence, a report must be submitted to <u>Wildlife.reports@NPWS.gov.ie</u> detailing results of works and success of mitigation within four weeks of the expiry date of this licence.
- 17. On completion of the actions which this licence authorises, all recordings of bat species affected will be made using the standardised data form provided below and must be submitted to the NPWS within four weeks of the expiry date of this licence. Included with the below returns form, a report will also be submitted to <u>Wildlife.reports@NPWS.gov.ie</u> detailing results of works and success of mitigation. Both documents must be submitted to constitute a licence return.

Claire Gowley

Claire Crowley (a person authorised by the Minister to sign on his behalf)

28/03/2024

Wildlife Licensing Unit National Parks and Wildlife Service Housing, Local Government and Heritage R. 2.03 90 North King Street Smithfield Dublin 7 D07 N7CV



NOTES (1 to 2).

- This licence is granted for the period specified and subject to compliance with the conditions specified. Anything done other than in accordance with the terms of this licence may constitute an offence.
- This licence applies to **bats** and to no other species.



An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreachta Department of Housing, Local Government and Heritage

Article 16 (Habitats Directive) - Returns Form

This returns form is for use in respect of:

Regulation 54 – Derogation Licence to protect wild fauna and conserving natural habitats

Licence Number:

Licence Year:

Licence Holder:

Species (English & Latin)	No. of Individuals Affected	No. of Breeding Places	No. of Resting Places

Licence Holder Signature: _____ Date: _____

Returns must be emailed to the following email address:

wildlife.reports@npws.gov.ie



Appendix D Bat-safe Timber Treatment Information



Marketing company	Product name	Туре	User	Active ingredients		
Akzo Nobel Coatings Ltd	Cuprinol Trade Decorative Preserver (BP)	S	A	IPBC, Tebuconazole		
Akzo Nobel Coatings Ltd	Cuprinol Trade Quick Drying Wood Preserver Clear (BP)	W	A	Propiconazole, IPBC		
Akzo Nobel Coatings Ltd	Dulux Trade Weathershield Naked Wood Basecoat (BP)	W	A	Propiconazole, IPBC		
Akzo Nobel Coatings Ltd	Dulux Trade Weathershield Preservative Primer + (BP)	W	A	Propiconazole, IPBC		
Assured Products Ltd	Spear & Jackson Triple Action Wood Treatment	Μ	A	Propiconazole, IPBC, Permethrin		
Assured Products Ltd	Spear & Jackson Woodworm Killer	Μ	A	Permethrin		
Crown Paints	Sadolin Quick Dry Wood Preserver	W	A	Propiconazole, IPBC		
Enviroquest GPT Ltd	Lignum Pro I62.5 (BPR)	Wc	Р	Permethrin		
Enviroquest GPT Ltd	Lignum Pro D156 (BPR)	Wc	Р	Propiconazole, IPBC, Permethrin		
Enviroquest GPT Ltd	Lignum Universal Wood Preserver (BPR)	W	А	Propiconazole, IPBC, Permethrin		
Enviroquest GPT Ltd	Lignum Woodworm Killer (BPR)	W	А	Permethrin		
Enviroquest GPT Ltd	Lignum Wood Preserver (BPR)	W	A	Propiconazole, IPBC, Permethrin		
Enviroquest GPT Ltd	Lignum Pro Gel(BPR)	Ра	Р	Propiconazole, IPBC, Permethrin		
Larsen Building Products	Larsen Construction Timber Preserver	М	A	Propiconazole, IPBC, Permethrin		
Larsen Building Products	Larsen Low Odour Woodworm Killer	Μ	A	Permethrin		
Larsen Building Products	Larsen Low Odour Universal Wood Preservative	Μ	A	Propiconazole, IPBC, Permethrin		
Morrells Woodfinishes Ltd	Omnia Preserve	W	Α	Propiconazole, IPBC		
Permagard Products Ltd	Permagard Woodworm Killer (BPR)	W	A	Permethrin		
Permagard Products Ltd	Permagard Universal Wood Treatment (BPR)	W	A	Propiconazole, IPBC, Permethrin		



PPG Agritectural Coatings UK Ltd	Johnstone's Trade Woodworks All Purpose Preserver	S	A	Propiconazole, IPBC, Permethrin
PPG Agritectural Coatings UK Ltd	Johnstone's Woodcare Wood Preserver	М	A	Propiconazole, IPBC, Permethrin
PPG Coatings Danmark A/S	Bondex Preserve II	W	A	Propiconazole, IPBC, Permethrin
Premier Q Coatings Ltd	Premier Q Woodworm Killer (BPR)	S	A	Permethrin
Premier Q Coatings Ltd	Premier Q Triple Action Wood Treatment (BPR)	S	A	Propiconazole, IPBC, Permethrin
Protim Solignum Ltd trading as Koppers	Endcoat Wood Preservative	S	A	Propiconazole
Rentokil Initial	Deadline Woodworm Treatment	W	Р	Permethrin, IBPC, Tebucanazole, Propiconazole
Rentokil Initial	Woodworm Treatment Solution	W	Ρ	Permethrin, IBPC, Tebucanazole, Propiconazole
Rentokil Initial	Woodworm Treatment Fluid	W	A	Permethrin, IBPC, Tebucanazole, Propiconazole
Rustins Ltd	Rustins Advanced Wood Preserver (BPR)	М	A	Propiconazole, IPBC, Permethrin
Safeguard Europe Ltd	Soluguard Woodworm Treatment (BPR)	М	A	Propiconazole, IPBC, Permethrin
Safeguard Europe Ltd	Soluguard Woodworm and Rot Treatment (BPR)	М	A	Propiconazole, IPBC, Permethrin
Sherwin-Williams Diversified Brands Ltd	Ronseal Total Clear Wood Preserver (MP)	S	A	Propiconazole, IPBC, Permethrin
Sherwin-Williams Diversified Brands Ltd	Ronseal Woodworm Killer (MP)	S	A	Permethrin
Sherwin-Williams Diversified Brands Ltd	Ronseal Multi-Purpose Woodworm Treatment (MP)	S	A	Propiconazole, IPBC, Permethrin
Sherwin-Williams Diversified Brands Ltd	Ronseal Multi-Purpose Woodworm Treatment (LC)	S	A	Propiconazole, IPBC, Permethrin
Sovereign Chemicals Ltd	Sovaq Woodworm Killer (BPR)	Мс	Р	Permethrin
Sovereign Chemicals Ltd	Sovereign Boron Timber Rod	R	Р	Disodium octaborate



Sovereign Chemicals Ltd	Deepkill Timber Preservative Cream	Ра	А	Propiconazole, IPBC, Permethrin
Sovereign Chemicals Ltd	Sovaq Dual Purpose Timber Treatment	Мс	Ρ	Propiconazole, IPBC, Permethrin
Sovereign Chemicals Ltd	Sovereign Timber Preservative	S	A	Propiconazole, IPBC
STV International Ltd	Defenders Triple-Action Timber Protector	М	A	Propiconazole, IPBC, Permethrin
STV International Ltd	Zero In Woodworm Destroyer	М	A	Permethrin
Troy UK	TWP 085	W	A	Propiconazole, IPBC
Troy UK	TWP 077	S	A	Propiconazole, IPBC
Wykamol Group Ltd	Microtech Dual C RTU (BPR)	М	A	Propiconazole, IPBC, Permethrin
Wykamol Group Ltd	Microtech Woodworm RTU (BPR)	М	A	Permethrin
Wykamol Group Ltd	Microtech Dual P RTU (BPR)	М	A	Propiconazole, IPBC, Permethrin

Type of product:

A - aerosol

Mc - micro emulsion concentrate, to be diluted with water to form a micro emulsion

Pa - bodied paste

R - solid rod, for insertion into pre-drilled hole

- S solvent-based
- W aqueous solution, ready for use
- Wc aqueous solution concentrate, to be diluted with water

Type of user:

P - professional - only people required to use pesticides as part of their work and who have received appropriate information, instruction and training can use the product

A - amateur - the general public can use the product

IPBC is an abbreviation for 3-iodo-2-propynyl n-butylcarbamate.

Use the HSE number to check product details in the COPR database.

Source: <u>https://www.gov.uk/government/publications/bat-roosts-insecticides-and-timber-treatments/timber-treatment-products-suitable-for-use-in-or-near-bat-roosts</u>