

The true benefits of TGD-E,2014 (Sound), nearly a decade after its release.



Presented by:

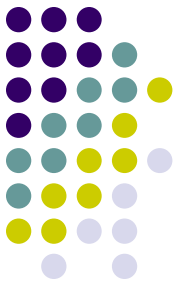
Diarmuid Keaney M.Sc. in Applied Acoustics

ICAN Acoustics (REV3 –NOT FOR RELEASE OR PUBLICATION)

Day 2: 30th March 2023, 11:30am~12:00hrs

www.acoustics.ie

Introduction



- Diarmuid Keaney
- Company: ICAN Acoustics www.acoustics.ie
- M.Sc. in Applied Acoustics (University of Derby)
- Diploma in Acoustics and Noise Control (University of Ulster)
- B.E. from NUI.

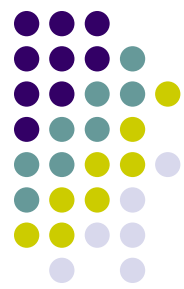
Most important sentence in TGE-E,2014.....



*Testing is
compulsory*

(since 1st July 2015)

Who cares about compulsory sound insulation testing?



The Architect



The Builder



The Acoustician

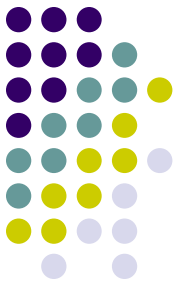


The Assigned Certifier

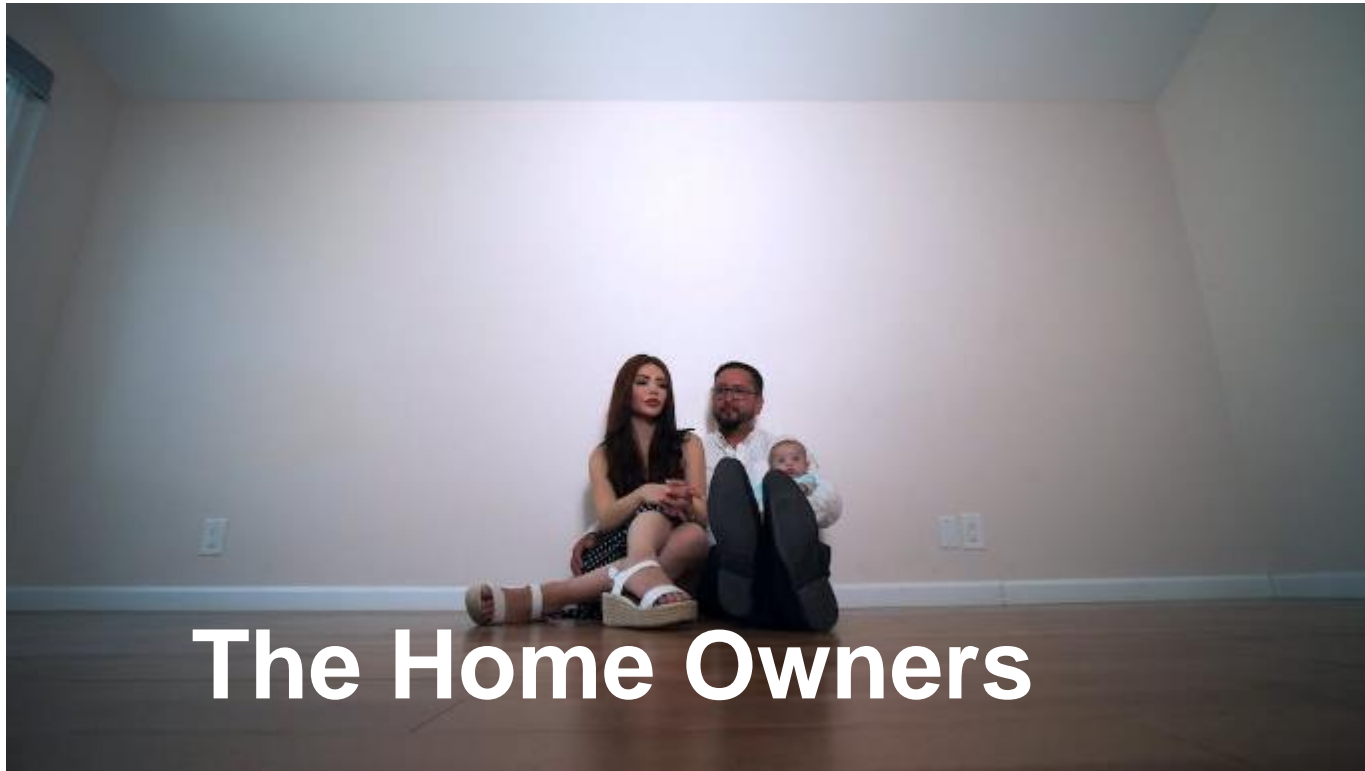


The Assigned Certifier

So many reports.....



Who does it really benefit?

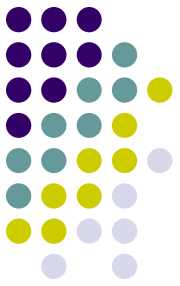


The Home Owners

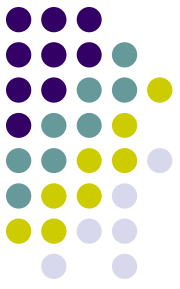
.....and not just the current home owners,
but every home owner afterwards....!

Reverberation Control (TGD-E,2014).

Reverberation in common internal parts of buildings has been introduced as an issue requiring consideration.



Great things about TGD-E, 2014



- A focus on sound insulation and achieving a standard.
- Builders asking us to check their designs early.
- Brought a focus on their workmanship.
- Concern that the building won't meet the guidance value in TGD-E, 2014
- A better experience for occupiers.

Differences between Fire Resistance and Sound Insulation



- Ideally most residents wont ever get to see how much resistance their building has to fire.
- Most residents however witness every day their buildings resistance to noise transfer (airborne and structure borne).

Potential Improvement 1



TGD-E, 2014 suggests a A 'set of tests' to be a ground floor room and 1st floor room

Potential Improvement 2



- Sound insulation testing services (in some cases) are being offered by individuals that complete a short course over 4.5 days.
- There are no entry requirements for that course.
- Those who complete the course and pass the examination can conduct tests but are not formally qualified to analyse a noise issue or specify remedial works.

From dealing with builders and architects, this needs to be improved.

Potential Improvement 3



Manage end-user expectations.....

- What some residents think.....
- my walls are paper-thin
- no realisation about the sensitivity to noise
- I have just paid €380k for my home; how come I can hear them (using the stairs, having a shower, closing doors, using presses)?

Potential Improvement 4

- Low noise areas
- 'the concept of being able to hear a pin drop' applies



Semi-detached house (away from the road).

Semi-detached house (near the road).

Potential Improvement 5



Care with trying to meet thermal details...

Ensure that measures now being proposed to meet better thermally insulated homes does not come at the detriment of sound insulation.



Understanding the limitations



Reasonable resistance to the passage of sound.

Reasonable resistance will NOT protect the home from.....

Noisy neighbours...

Piano practice...

Amplified instruments...

Loud TV and Hi-fi

Being able to hear doors close, cupboard doors closing.....

Late night working or shift working



High Court Case (Jan 2023)



THE IRISH TIMES

Courts

Couple abandoned 'beautiful' Ballsbridge home as wife traumatised by noise from next door

Daniel and Joseph Hoban suing Frank and Mark Cassin over alleged omission of wall and gap between properties

Expand



Daniel Hoban claimed his wife did not want to return to their Pembroke Lane home following the birth of their first baby because she was traumatised by the noise problems from next door. Photograph: Bryan O'Brien

Fri Jan 20 2023 - 18:00

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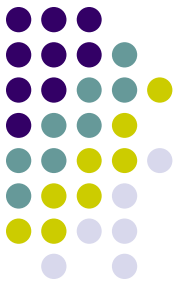
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