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STEEL&STYLE

ZEN®
SOUND SHAPER
Design Roberto Molteni

Zen app
Instructions for use

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Zen app works <u>exclusively</u> with Zen measurement Kit

For more information about the measurement kit send email to marketing@steelbox.it

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Watch our instruction movie from our You Tube channel or our website

or follow this instructions for detailed information

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content of Zen measurement kit

1 Mic
2 Mic stand
3 Cartridges
4 Shooting pen
5 Ear protectors
6 Raspberry
7 Power chord

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Place microfone on its stand and connect the raspberry

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Connect the raspberry to the outlet power or power bank and switch it on

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After the download of the app and with the measurement kit it's needful to start on the Raspberry and pair the phone in the same Zen Network wi-fi to start using the app.

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start a new measurement

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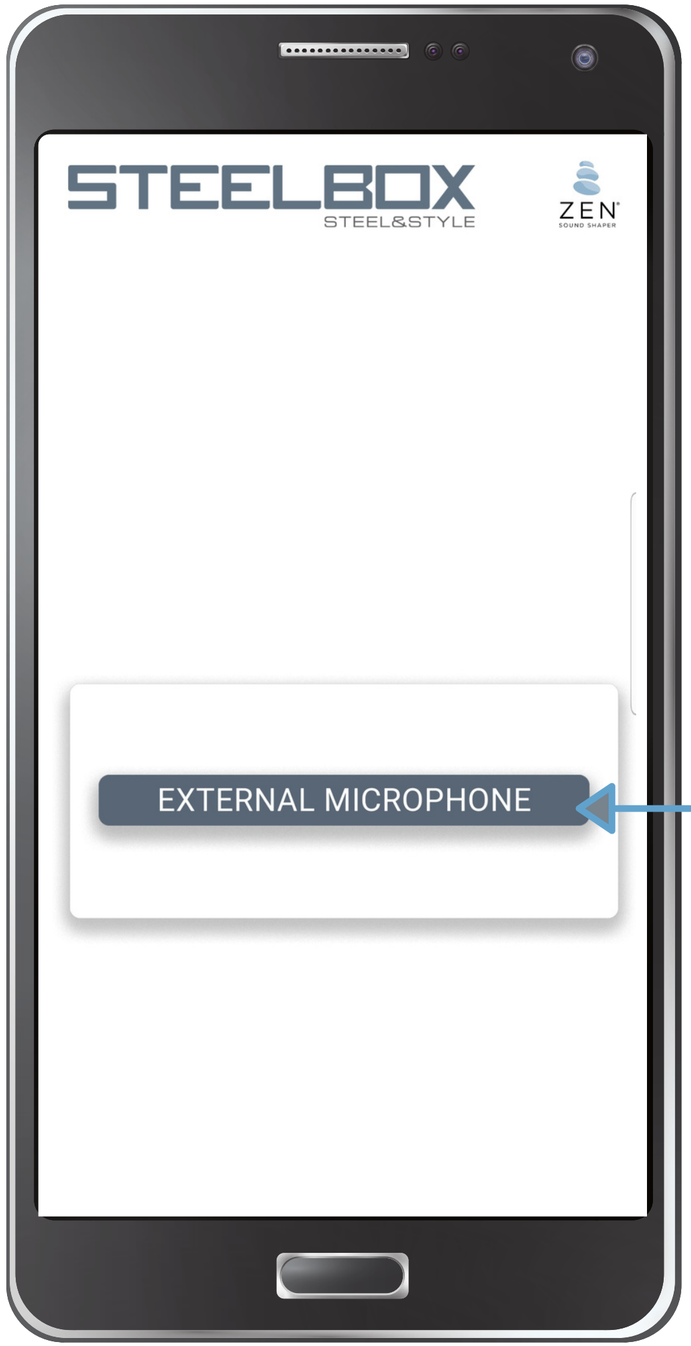

before to start it's needful to pair the external microfone of the Zen measurement kit

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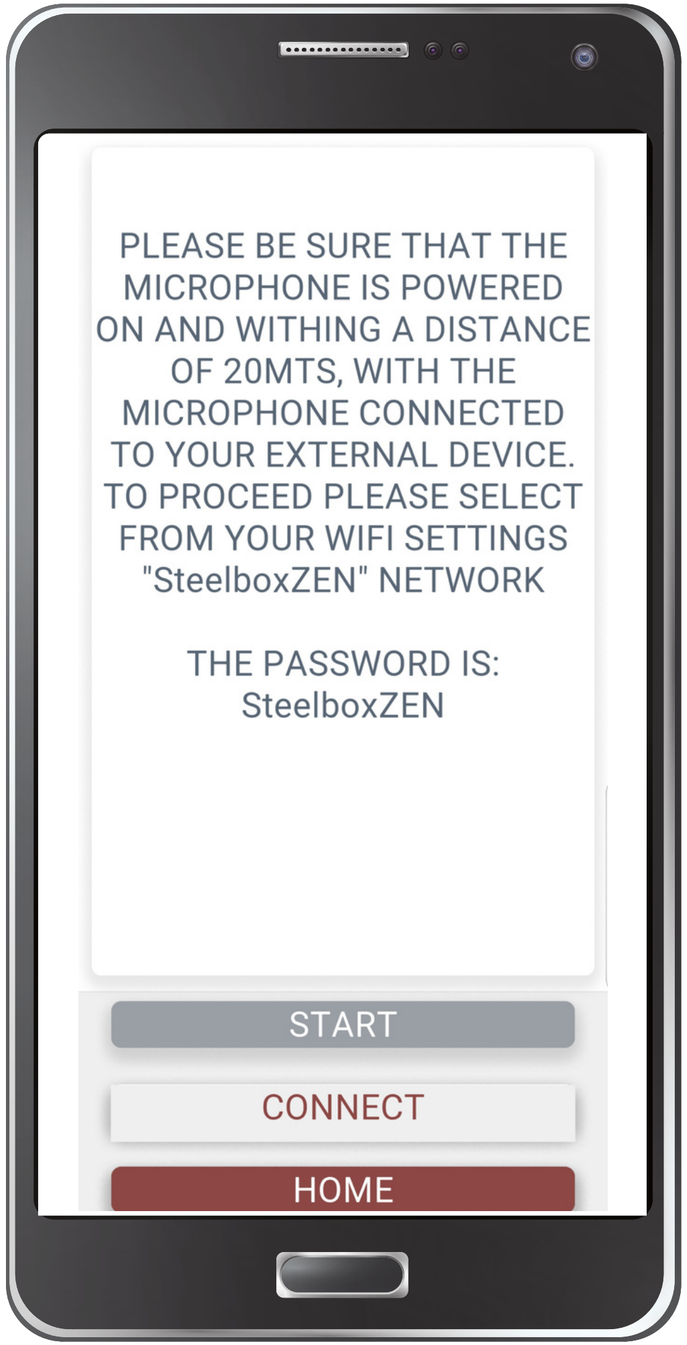

Pair the telephone to the raspberry throught the wi-fe - search for Steelbox zen. The pairing mode is needed only the first time if not removed from the phone

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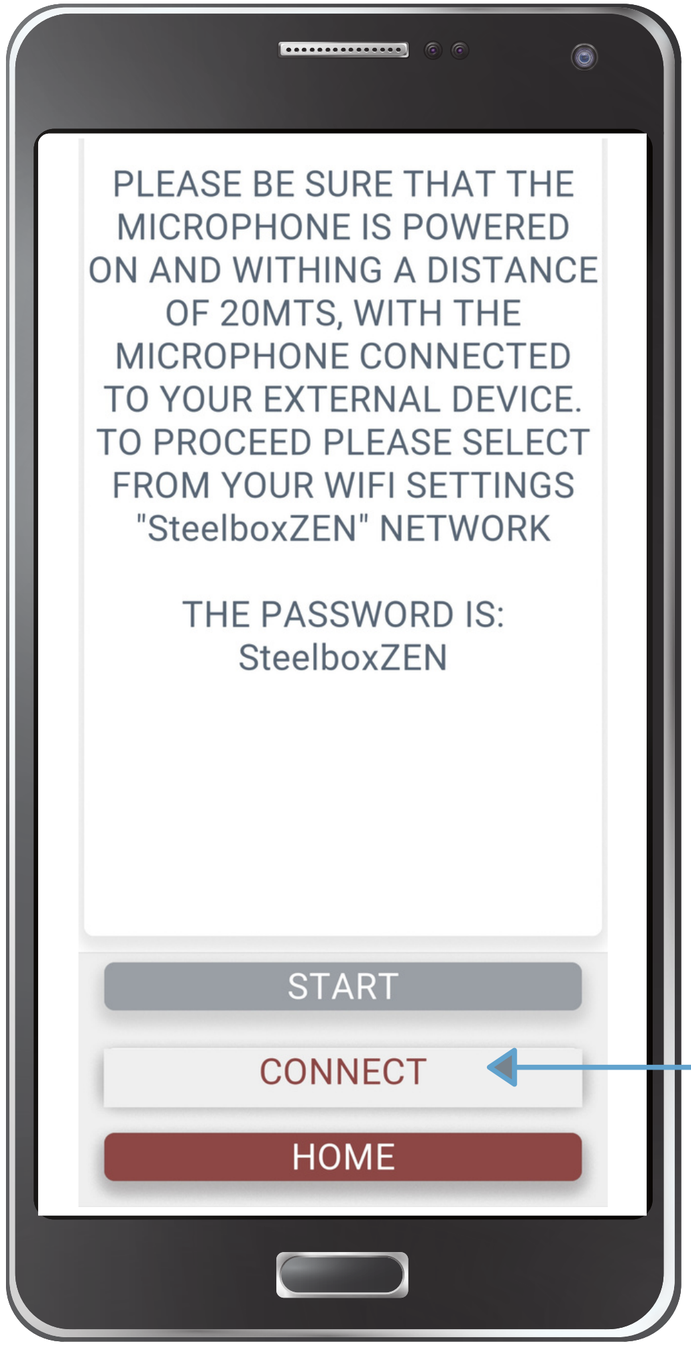

Press Connect

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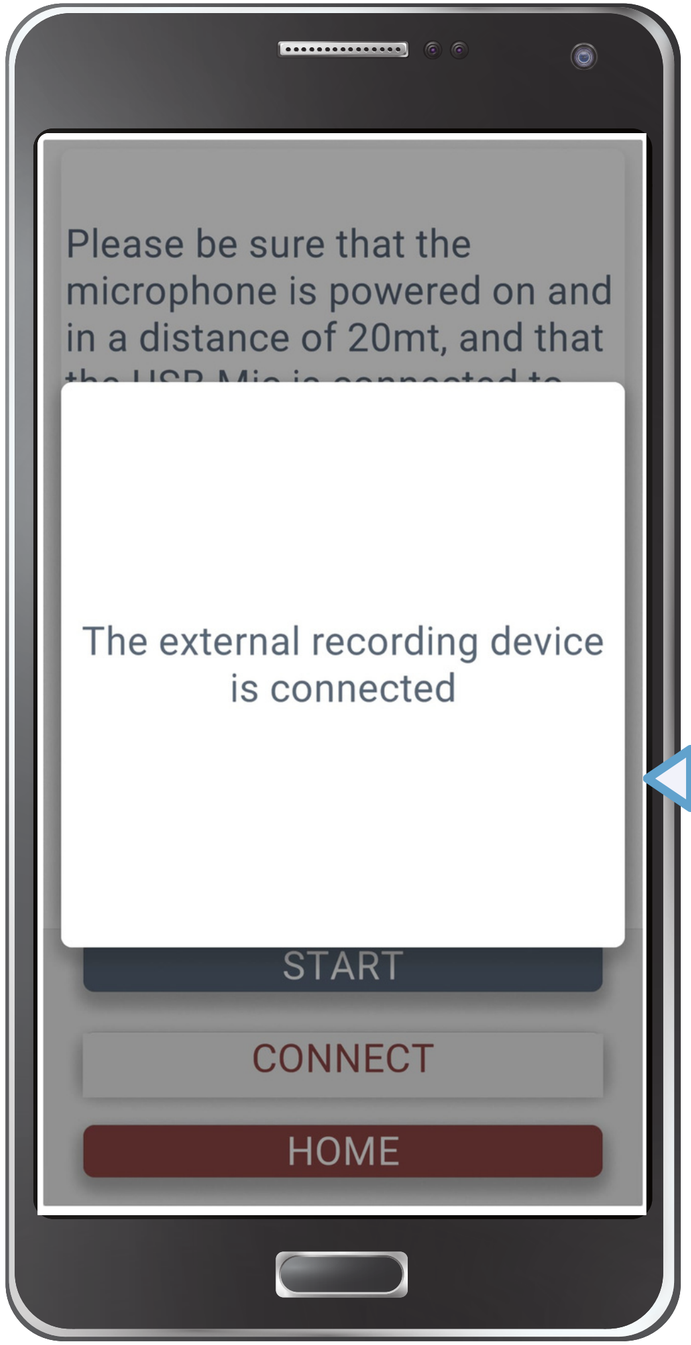

If the pairing was successfull when pressing connect the app will show a positive message. You will tap on it to close it and press start

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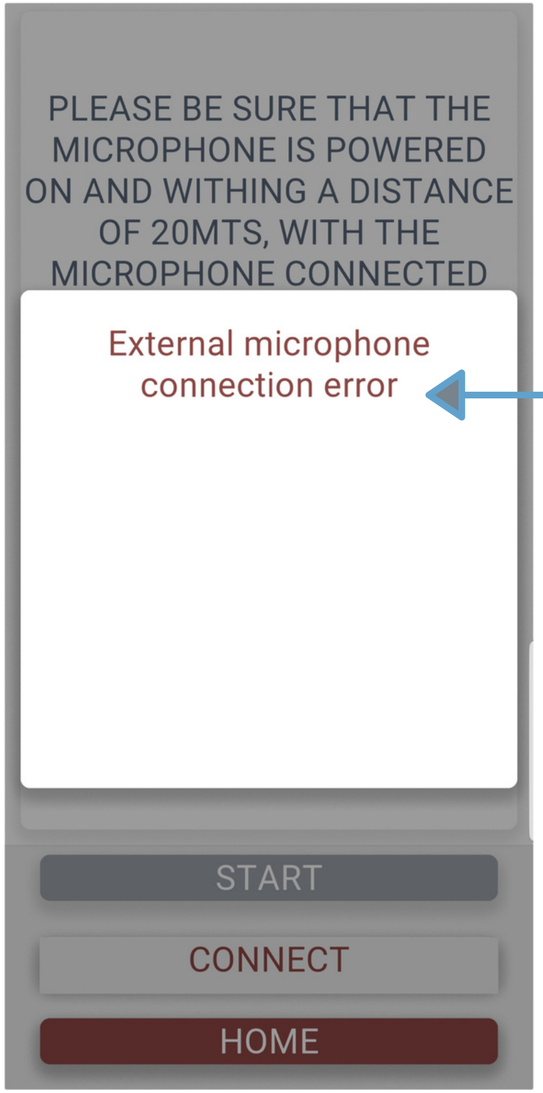

If the pairing has not been successfully when pressing connect the app will give error. Repeat all the passages

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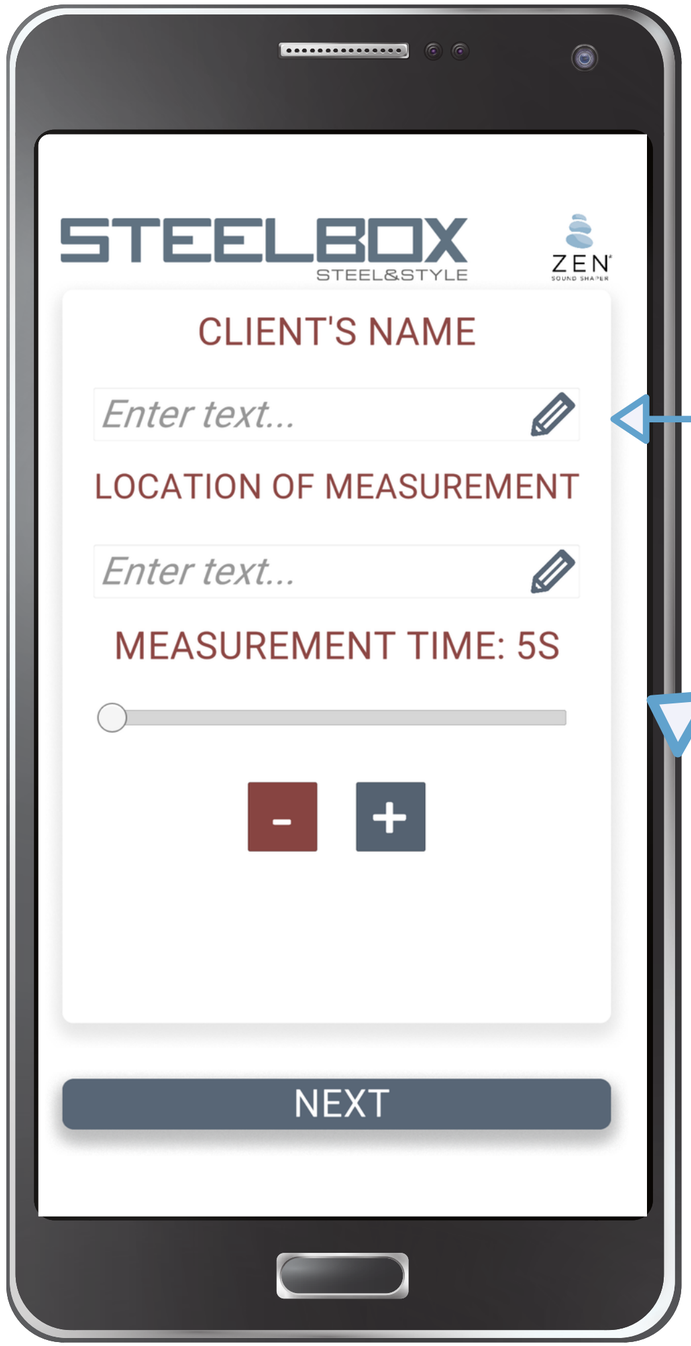

this parts helps to keep the track of all measurements done and to use them again in future to print the report , to send it by email or to repeat the measurement

measurement time depends on the size of the room we are measuring. Once ready press next

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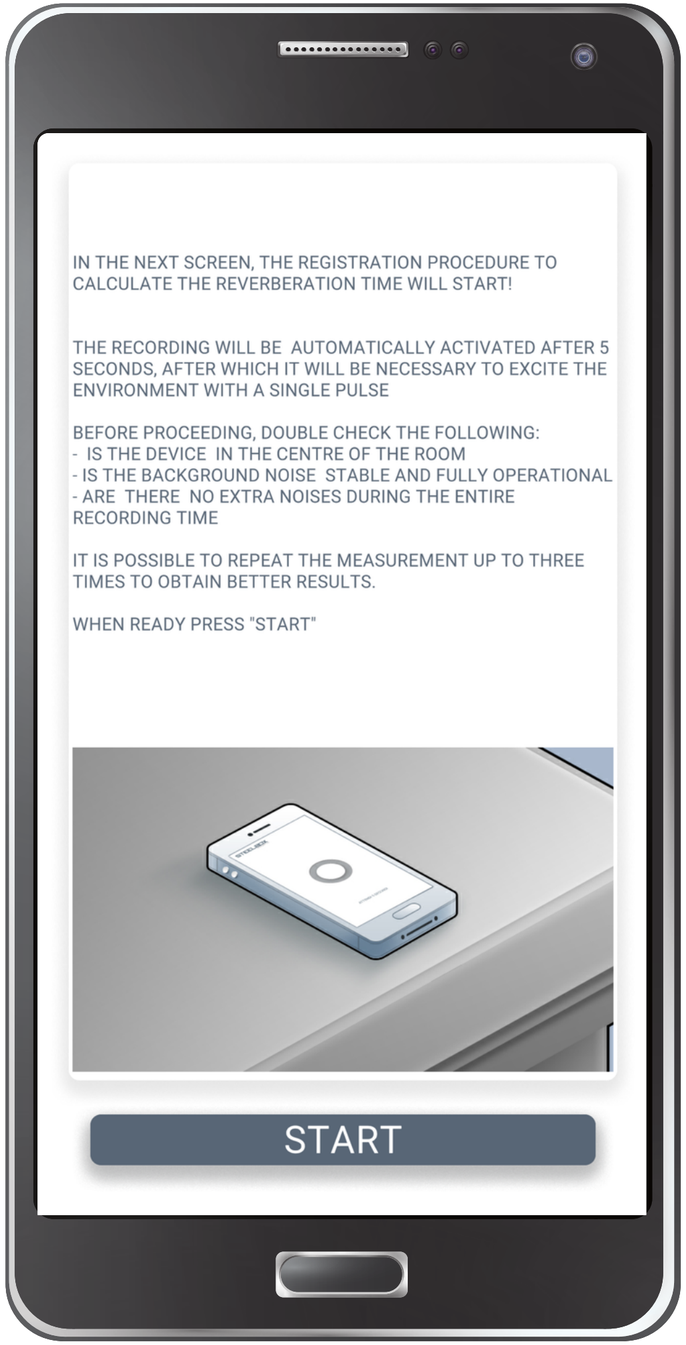

to prepare the room for correct measurement follow these instructions

Before to press start you will need to be ready to prepare the Shooting pen for 3 shots.

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Be ready to re load the shooting pen for 3 times with the cartridges

warning:
always use earing protection before shooting with the pen

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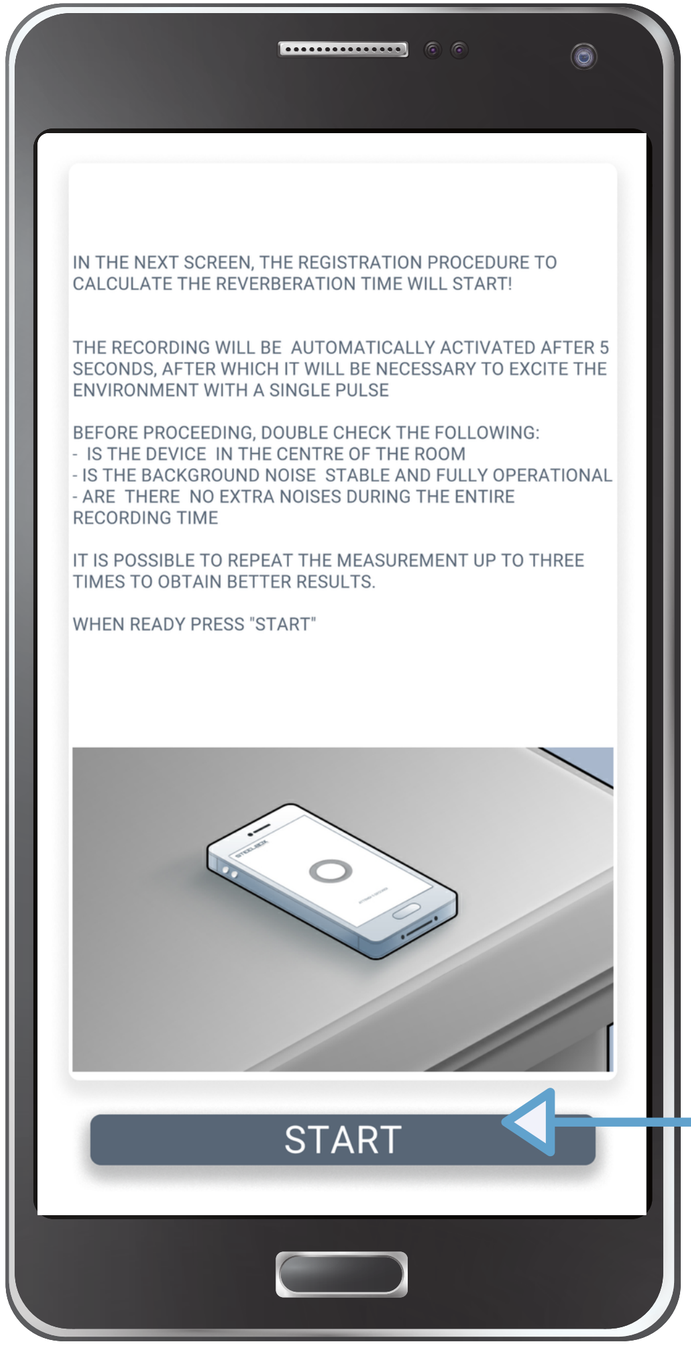

when ready with shooting
pen and ear protection
press start

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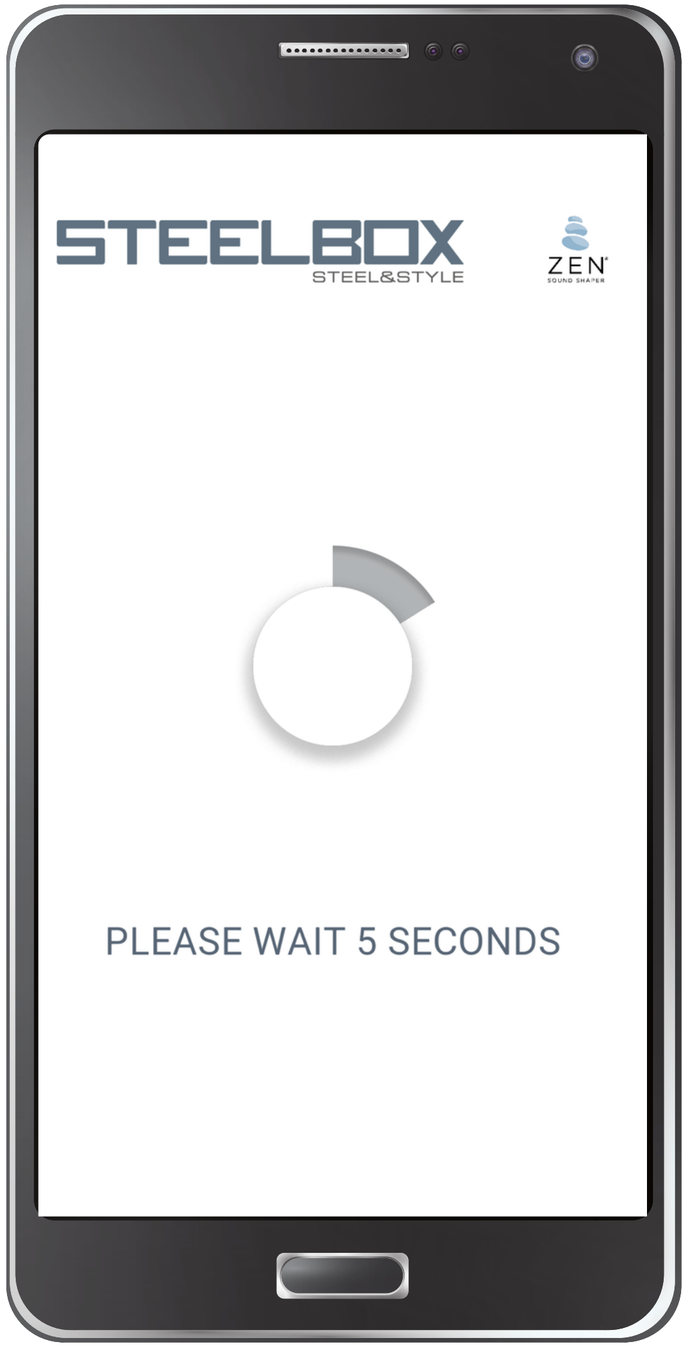

wait 5 seconds in silence to allow the mic to catch the room background noise

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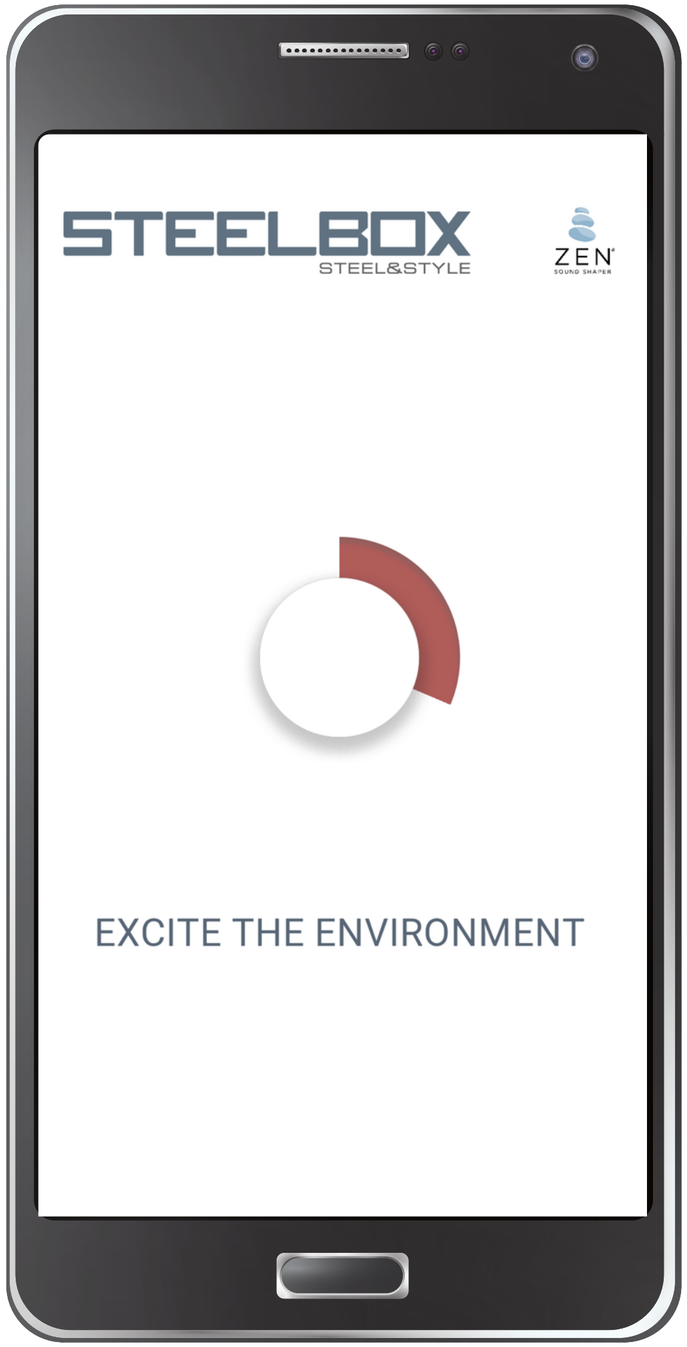

When the red sign starts turning counterclockwise Shoot with the Pen and excite the environment

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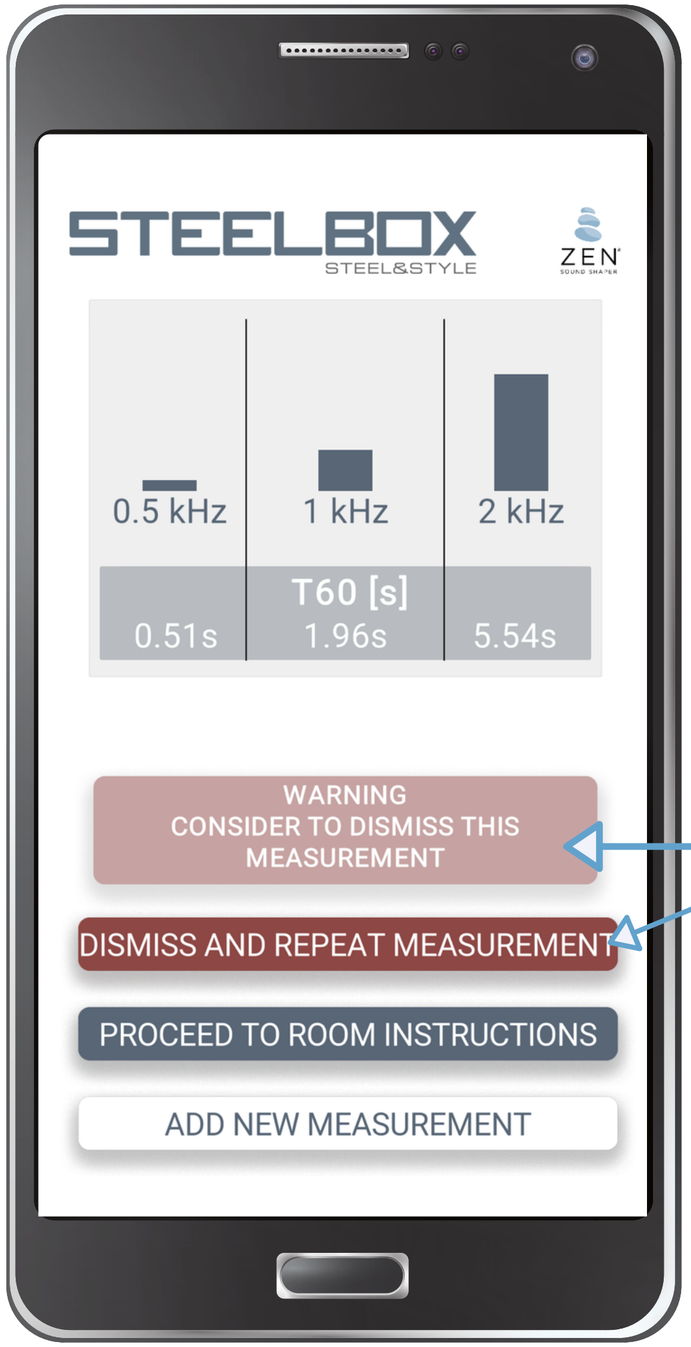

if this warning is on the screen you need to repeat the procedure again because the mic didn't catch the sound propertly

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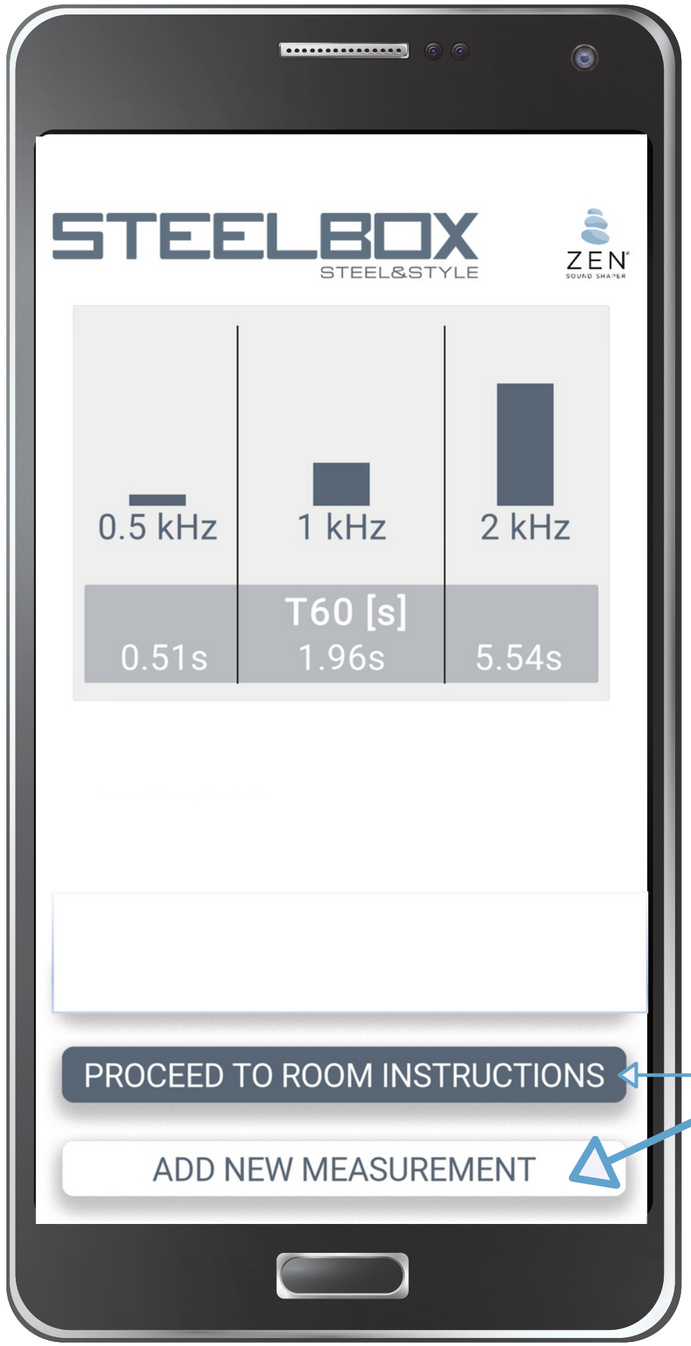

if the measurement is correct, add

2 more measurements

and

when done, click on proceed to room instructions

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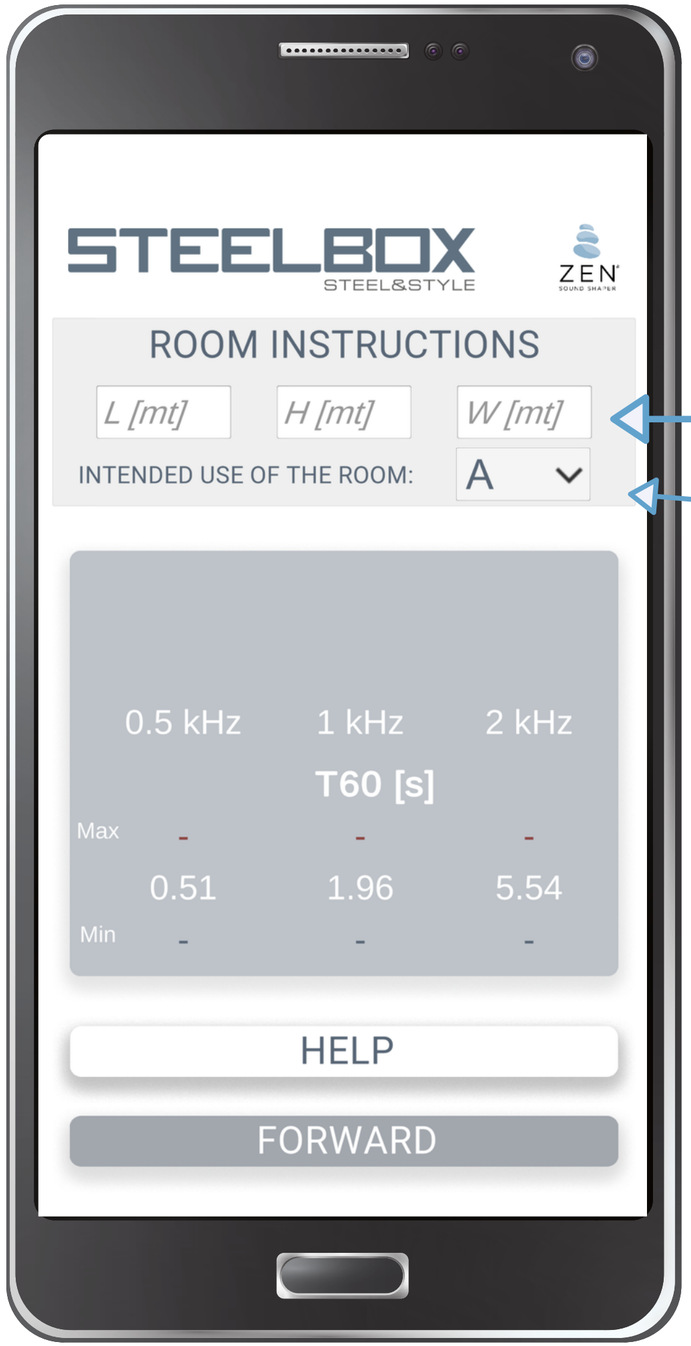

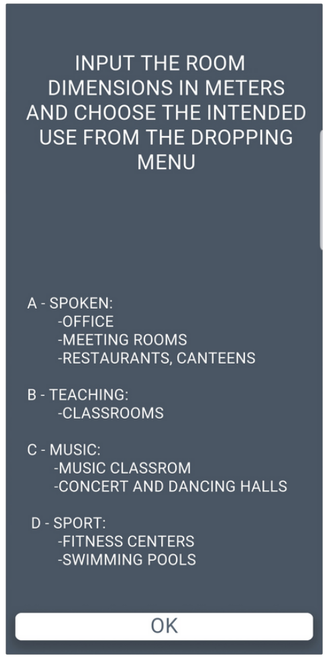

add dimensions in meters

decide the use of the room

A: office, meeting rooms, restaurant

B: classroom

C: music classroom, concert halls, dancing halls

D: sport halls, fitness centers, swimming pools

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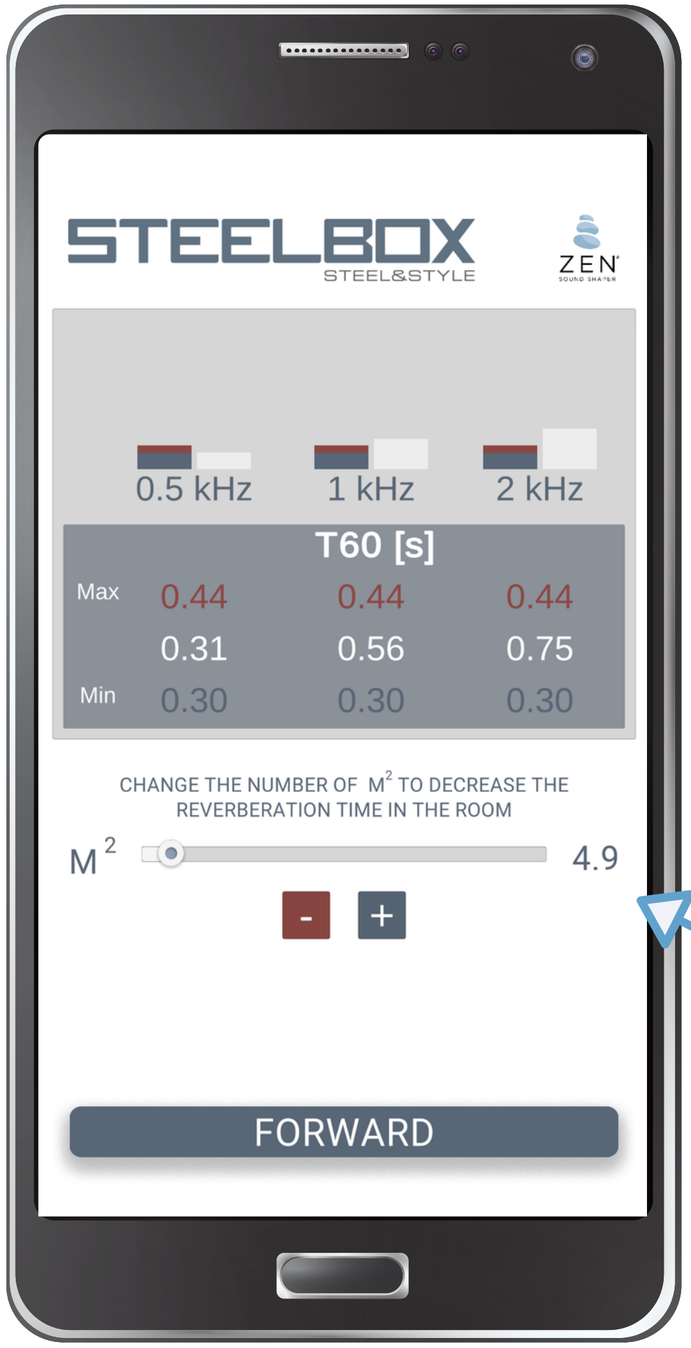

results at different frequencies
1khz is the speech frequency

- Red = maximum recommended reverberation time for the room in question. With a higher value we will have a very reverberating venue, then not comfortable

- White = reverberation time that you would have with the inclusion of M^2 of Zen panels using the cursor or the + and - keys

- Blu = minimum reverberation time recommended for the room in question. With a lower value we will have a thud room, therefore, not comfortable

move this button to check how many sqm of panels you need to achieve your acoustic comfort

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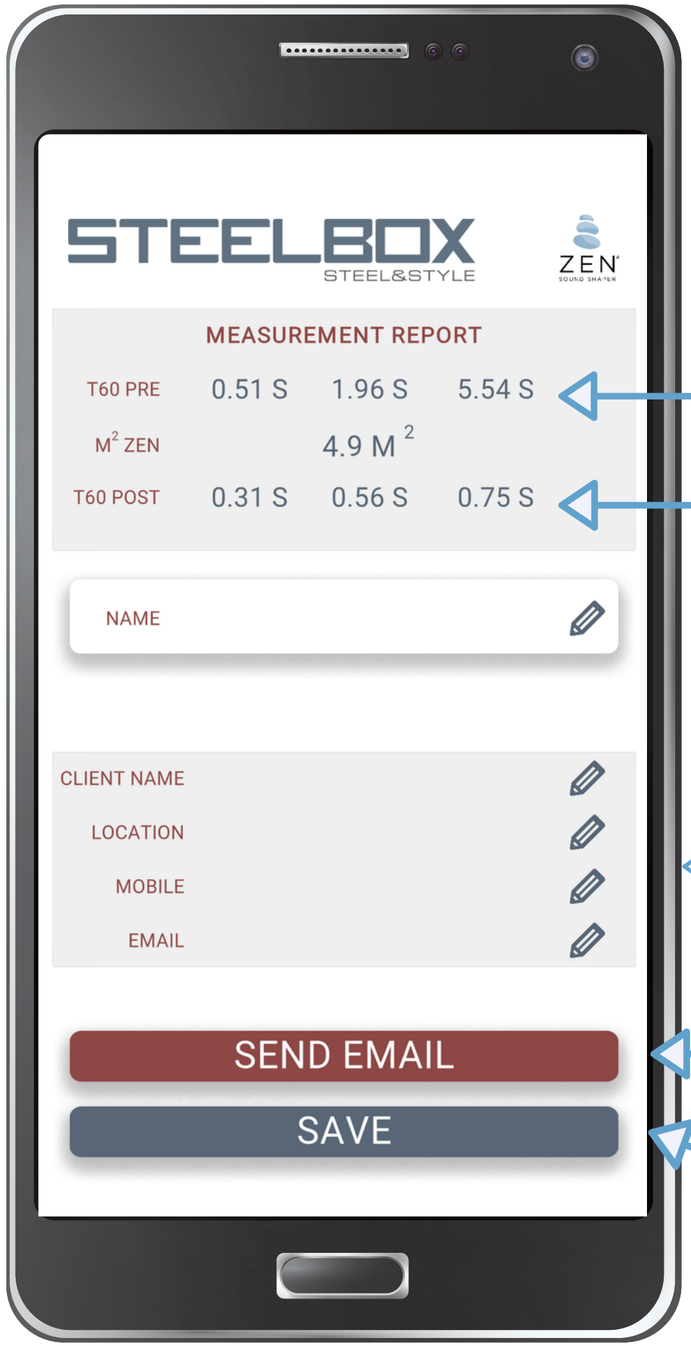

T60 pre is the reverberation time of the room

T60 post is the reverberation time of the room after the inclusion of the panels

we suggest to fill here with the name of the room of measurement of there are multiple rooms: ex ceo office, sales office, etc. - this will be also the ref. in the email

fill this part to keep track of all measurements

the email will be sent to the address indicated at the moment of the registration of the app

save the measurement for future consultation and changes

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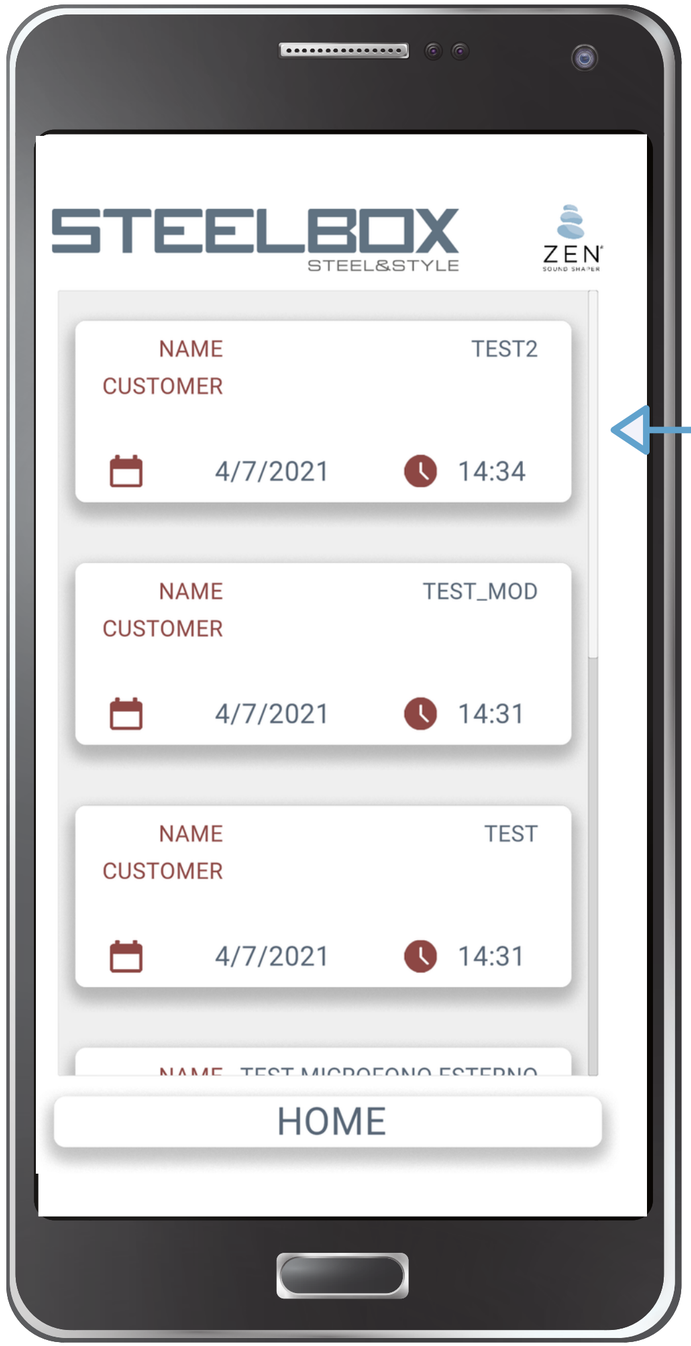

if you have saved a measurement you can always go and check the storage section to revise it. At any time.

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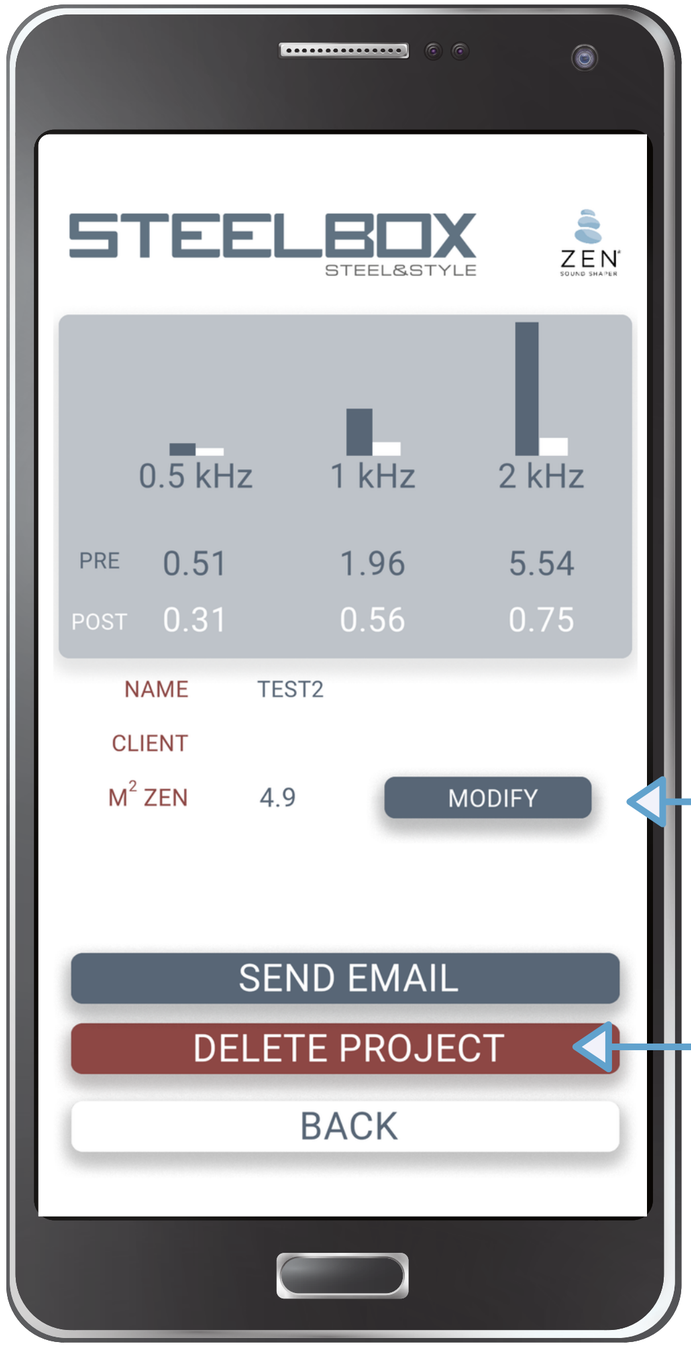

you can modify the quantity of the panels on saved projects according to your client's needs and again send the email with a new graphic.

it's possible to delete the measurement when not needed anymore

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if you decide to delete a project the app will ask again the consent because this action is irreversible

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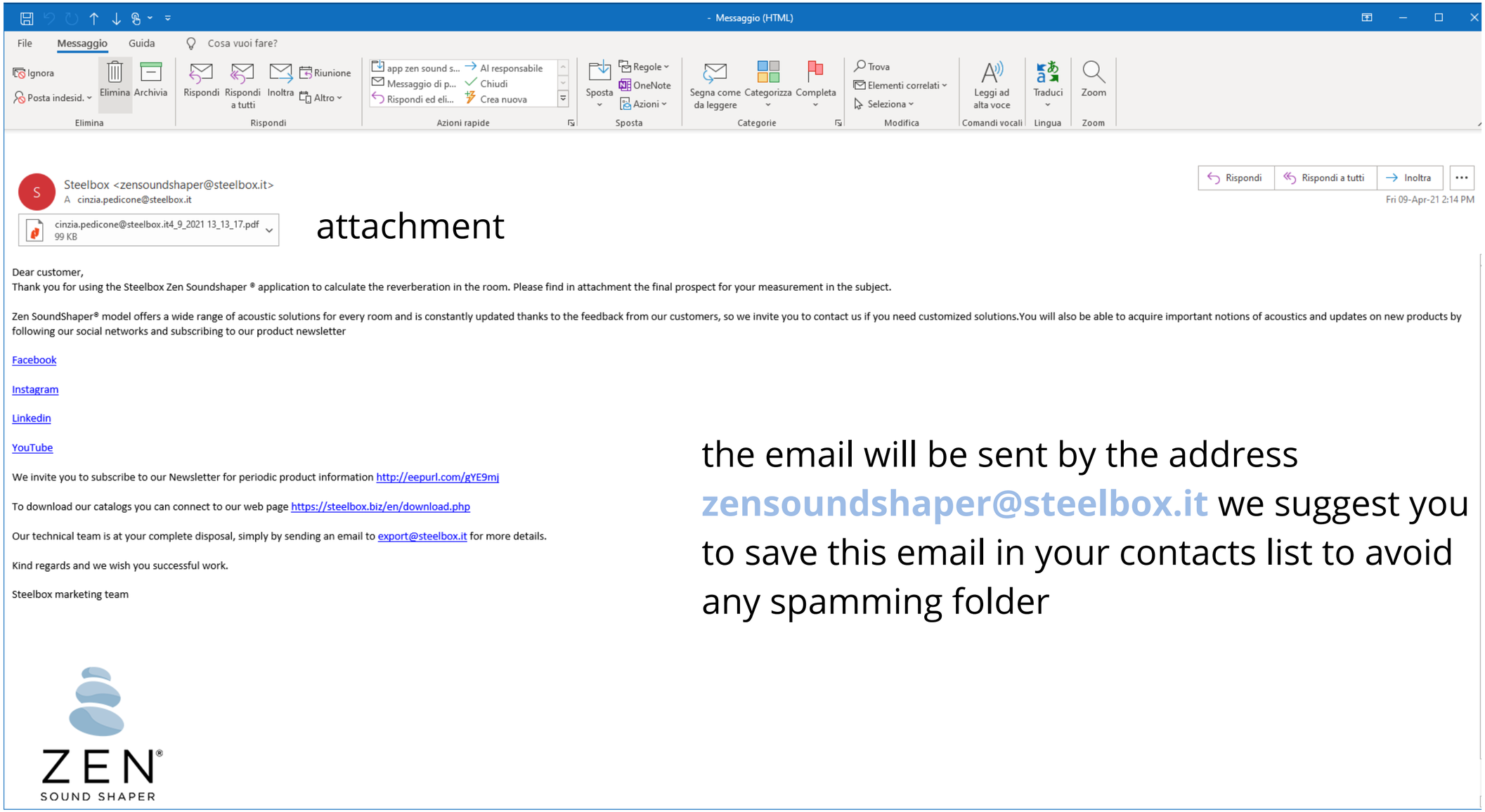

the email will be sent by the address **zensoundshaper@steelbox.it** we suggest you to save this email in your contacts list to avoid any spamming folder

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CLIENTE	**SUSHI CORNER**					
OGGETTO	**1**					
		Largh.	**Prof.**	**Alt.**		
DIMENSIONI	**Mt**	**13.23**	**8.69**	**2.69**	**VOLUME MC**	**309.27**

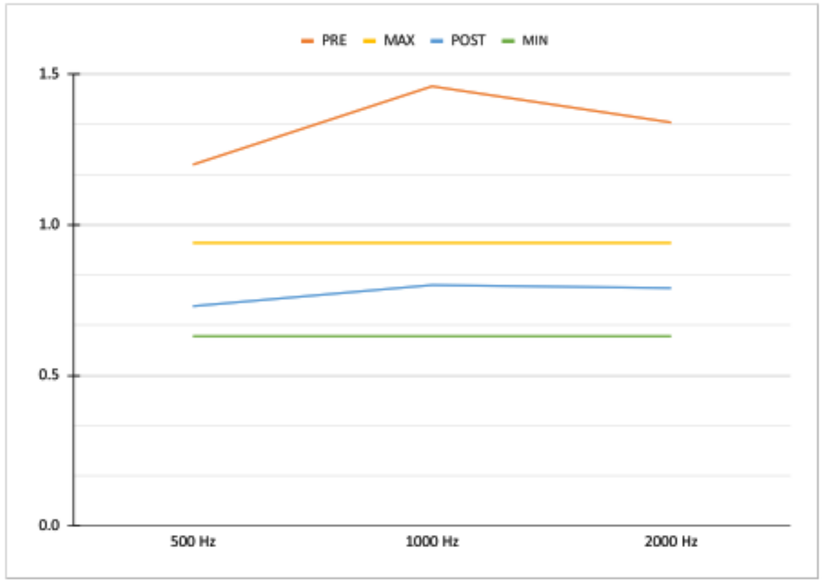
MISURAZIONE ACUSTICA

T 60 **STATO DI FATTO**

	500 Hz	1000 Hz	2000 Hz
S 1	1.2	1.47	1.37
S 2	1.22	1.44	1.31
S 3	1.19	1.48	1.34
MEDIA	**1.20**	**1.46**	**1.34**

T 60 **PROGETTO**

	500 Hz	1000 Hz	2000 Hz
PRE	**1.20**	**1.46**	**1.34**
MAX	**0.94**	**0.94**	**0.94**
POST	**0.73**	**0.8**	**0.79**
MIN	**0.63**	**0.63**	**0.63**
MQ di pannelli consigliati			**28.16**



the attachment will show

- the client and location
- the dimension of the room
- the volume of the room in cbm
- the 3 measures to assess the reverberation
- the quantity of panels included
- the graphic of the measurement

how to read the graphic

Orange: il the reverberation time recorded during measurement

Yellow: is the max reverberation time suggested before reaching reverberation discomfort

Blu: is the reverberation level obtained after the inclusion of Zen Soundshaper® panels

Green: is the reverberation time suggested before to loose the acoustic comfort due to thud sound

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what to do after the measurement

once you have assessed all the sqm of panels needed you will need to refer to ZEN CATALOG and PRICE LIST to chose the panels that suites best to your clients and the supports needed. **In the price list you will find the indication the sqm for each panel.**

Pannelli acustici bifacciali *Two sides acoustic panels*	MQ
Panel 400x600	0,24
Panel 400x800	0,32
Panel 400x1000	0,40
Panel 400x1200	0,48
Panel 400x1400	0,56
Panel 400x1600	0,64
Panel 400x1800	0,72
Panel 800x1200	0,96
Panel 800x1400	1,12
Panel 800x1600	1,28
Panel 800x1800	1,44
Panel 1200x1200	1,44
Panel 1200x1400	1,68
Panel 1200x1600	1,92
Panel 1200x1800	2,16

Pannelli monofacciali *One side acoustic panels*	MQ
Tangram	**0,81**
Ceiling 590x590	**0,35**
Acoustic panel 590x1180	0,70
Acoustic panel 1180x1180	1,40
Round panel cm Ø600	0,28
Round panel cm Ø900	0,63
Round panel cm Ø1200	1,44

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help and support: marketing@steelbox.it

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