

**STEELBOX**  
STEEL&STYLE



**ZEN**<sup>®</sup>  
SOUND SHAPER  
Design Roberto Molteni

**Zen app**

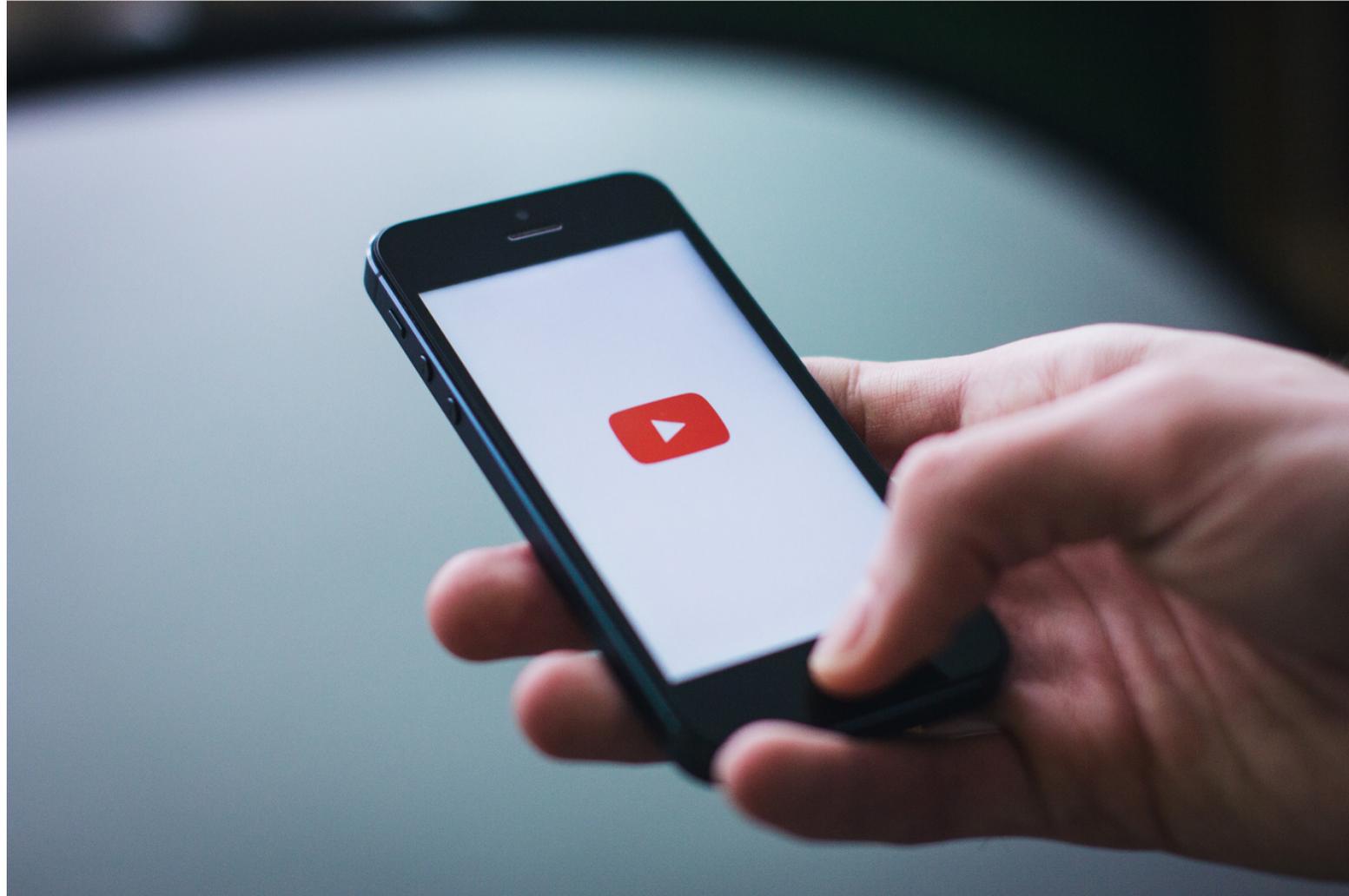
**Instructions for use**



**Zen app works exclusively with Zen measurement Kit**

**For more information about the measurement kit send email to [marketing@steelbox.it](mailto:marketing@steelbox.it)**





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

or follow this  
instructions for detailed  
information

# content of Zen measurement kit



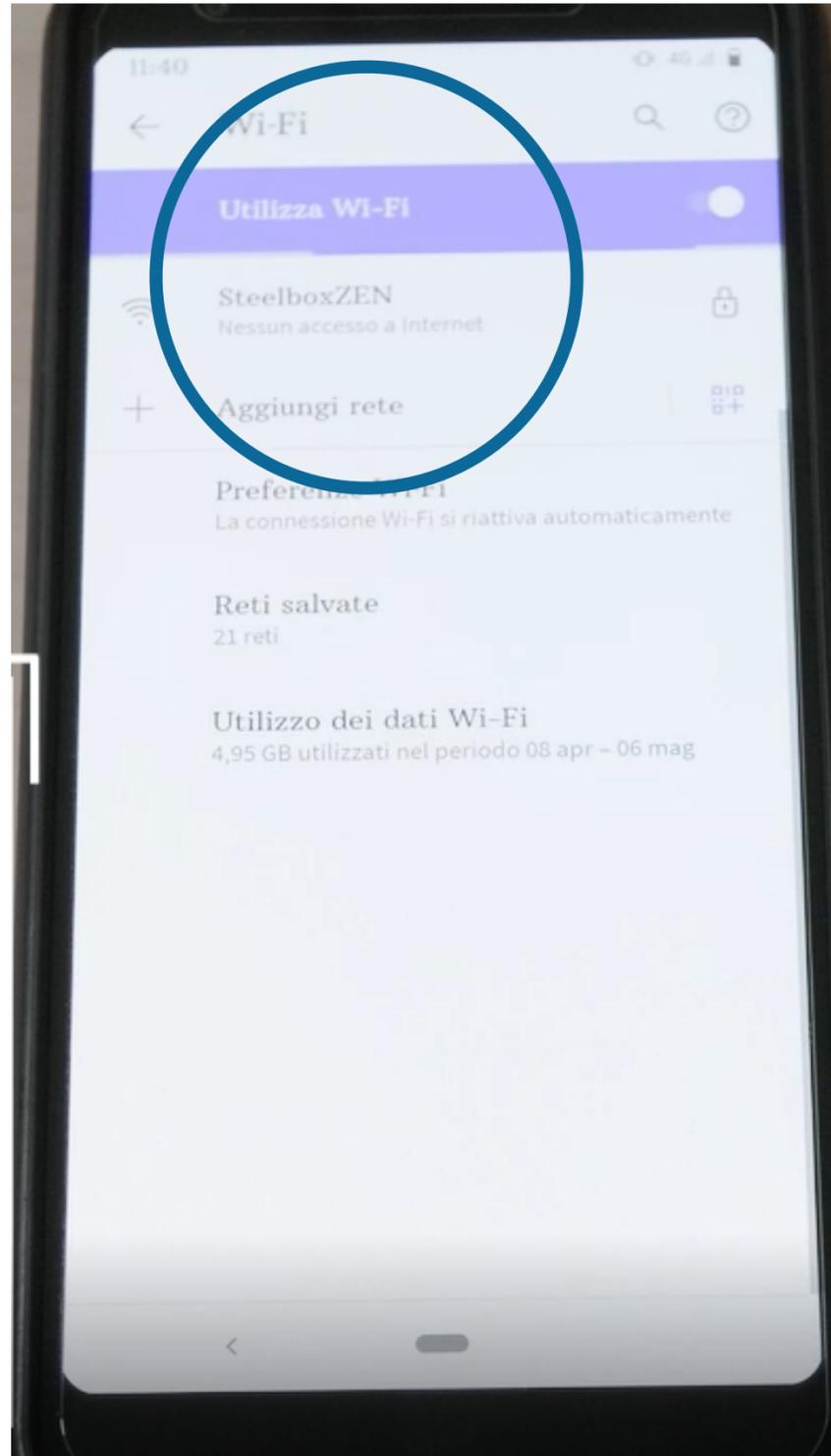
- 1 Mic
- 2 Mic stand
- 3 Cartridges
- 4 Shooting pen
- 5 Ear protectors
- 6 Raspberry
- 7 Power chord



Place microfone on its  
stand and connect the  
raspberry



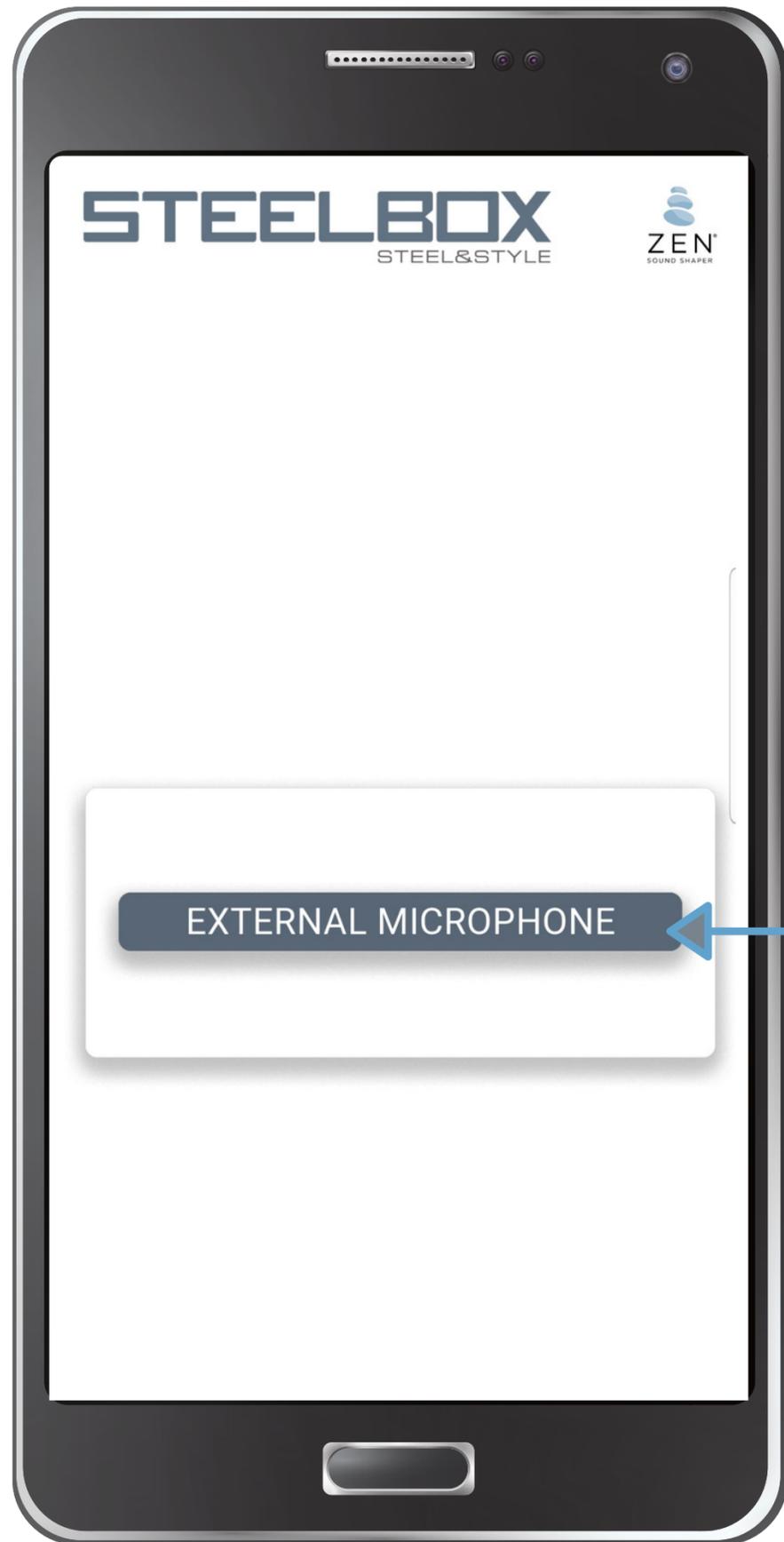
Connect the raspberry to  
the outlet power or  
power bank and switch it  
on



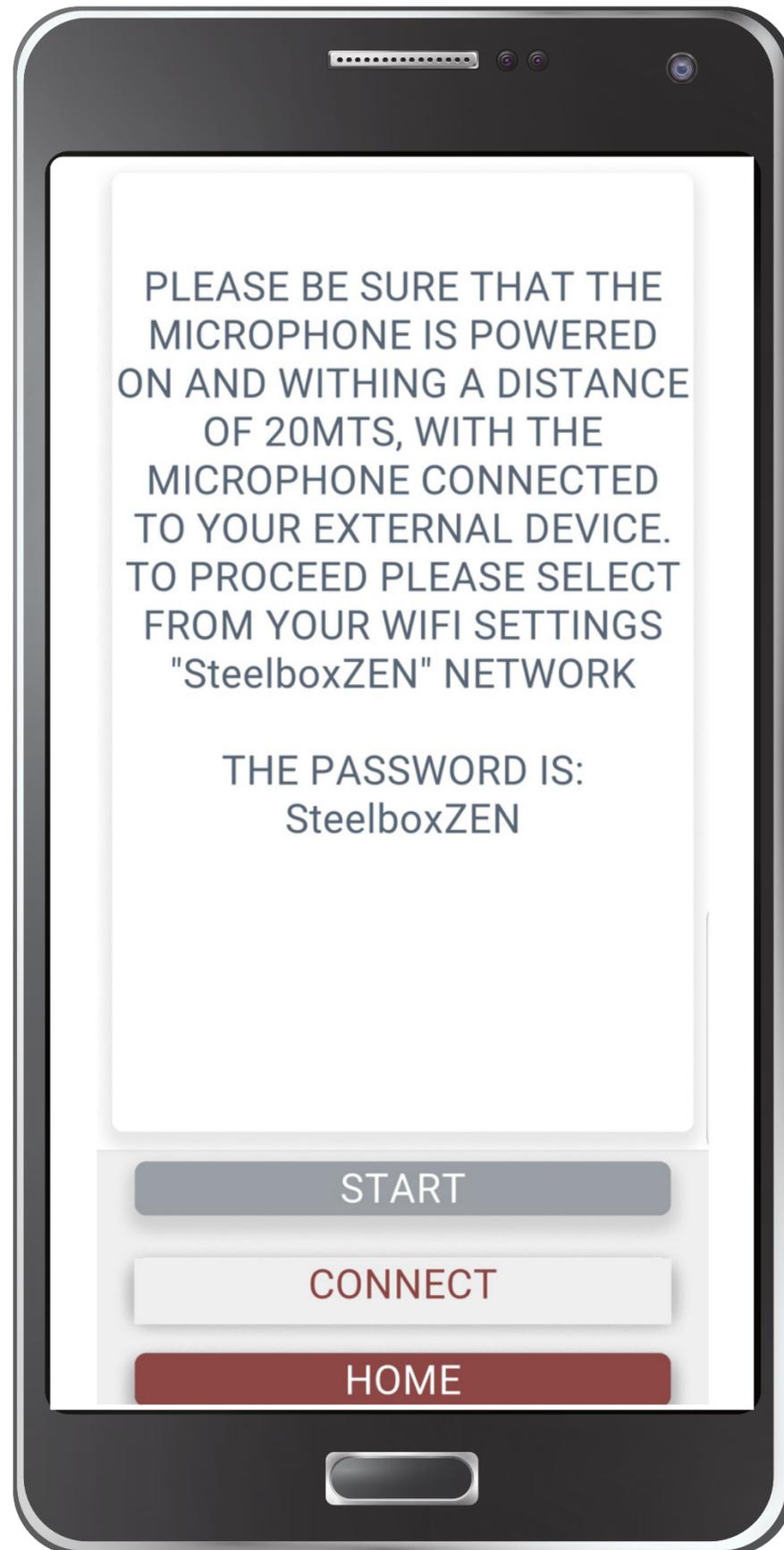
After the download of the app and with the measurement kit it's needful to start on the Raspberry and pair the phone in the same Zen Network wi-fi to start using the app.



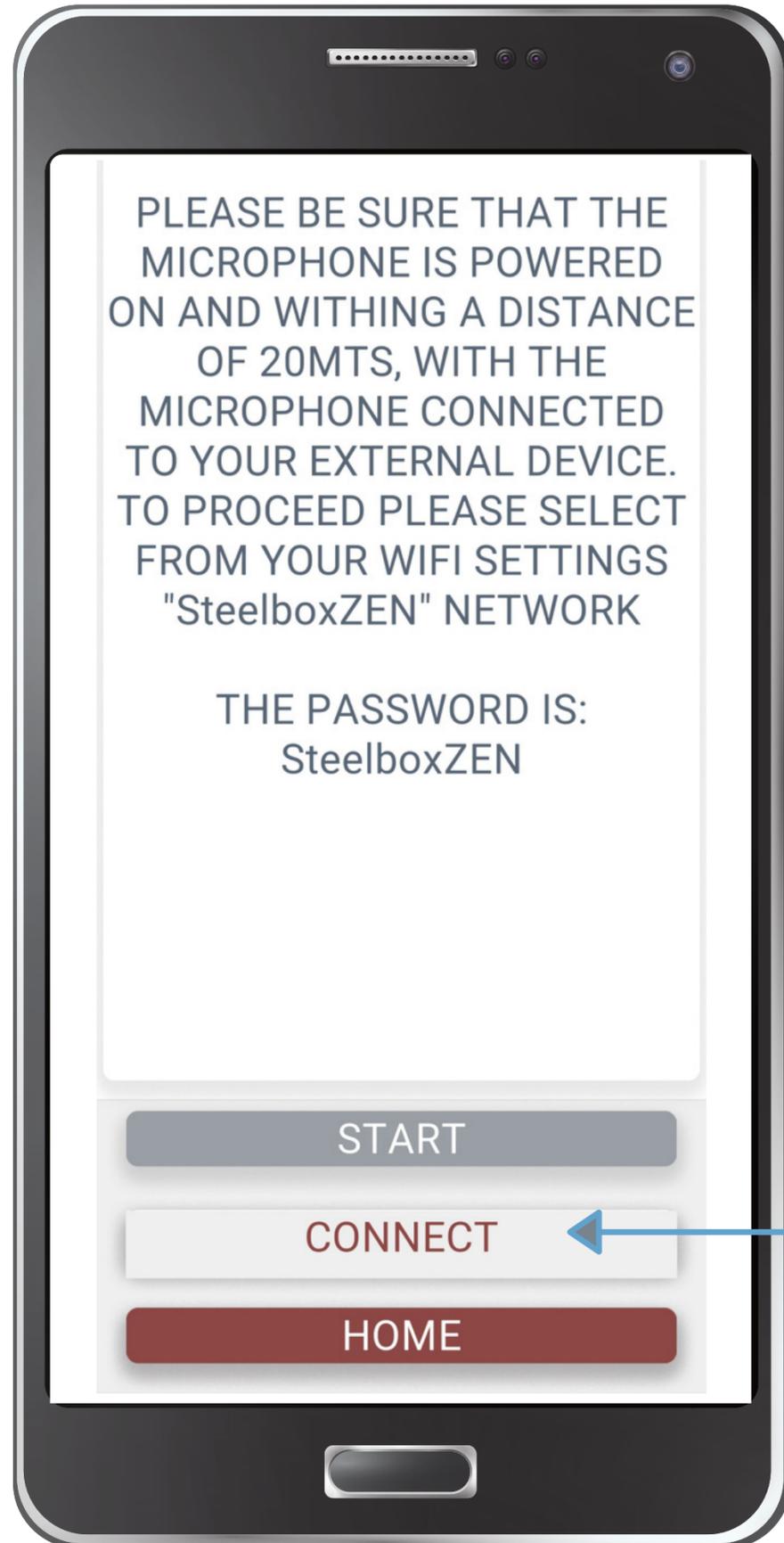
start a new measurement



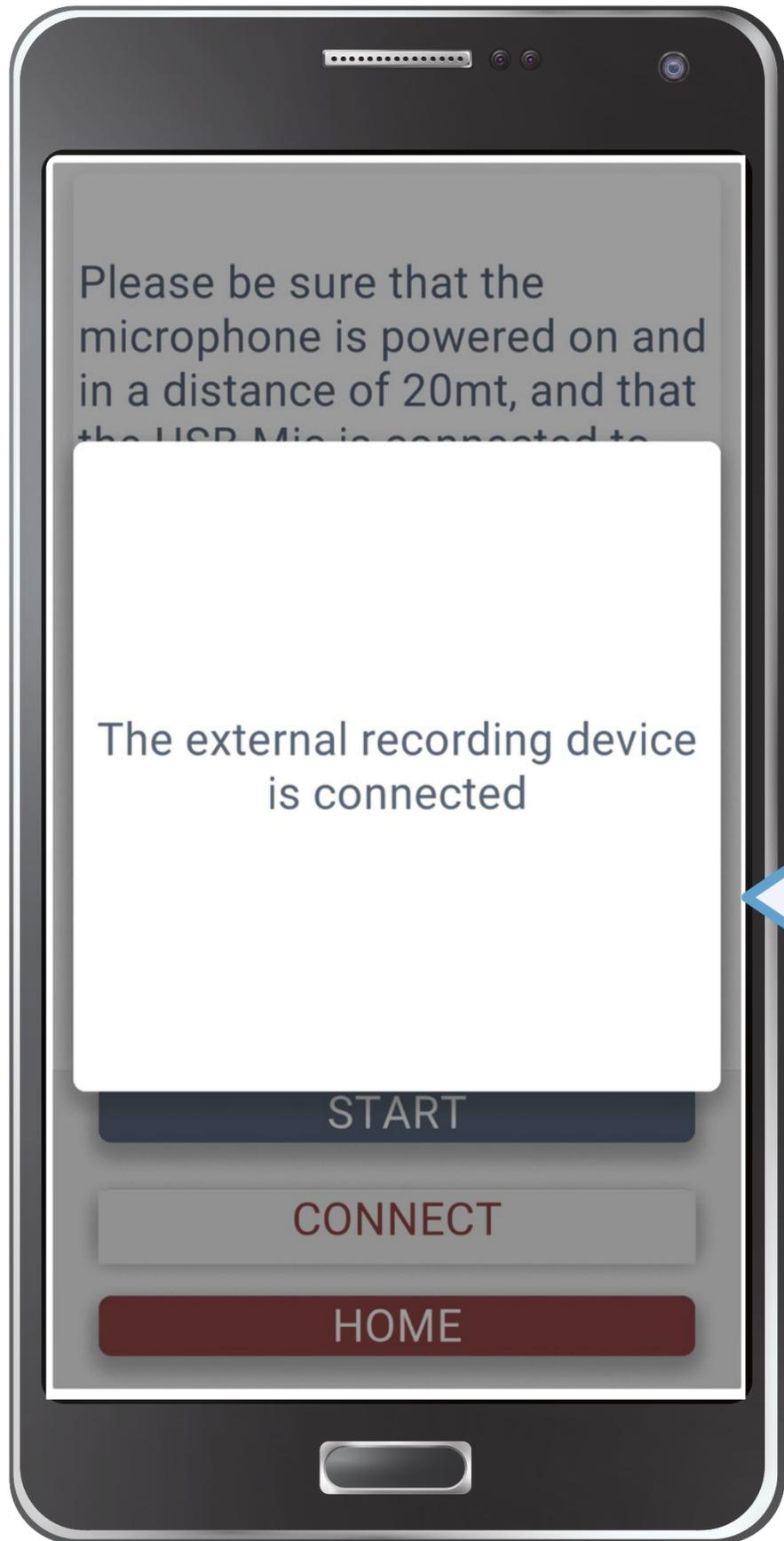
before to start it's needful  
to pair the external  
microfone of the Zen  
measurement kit



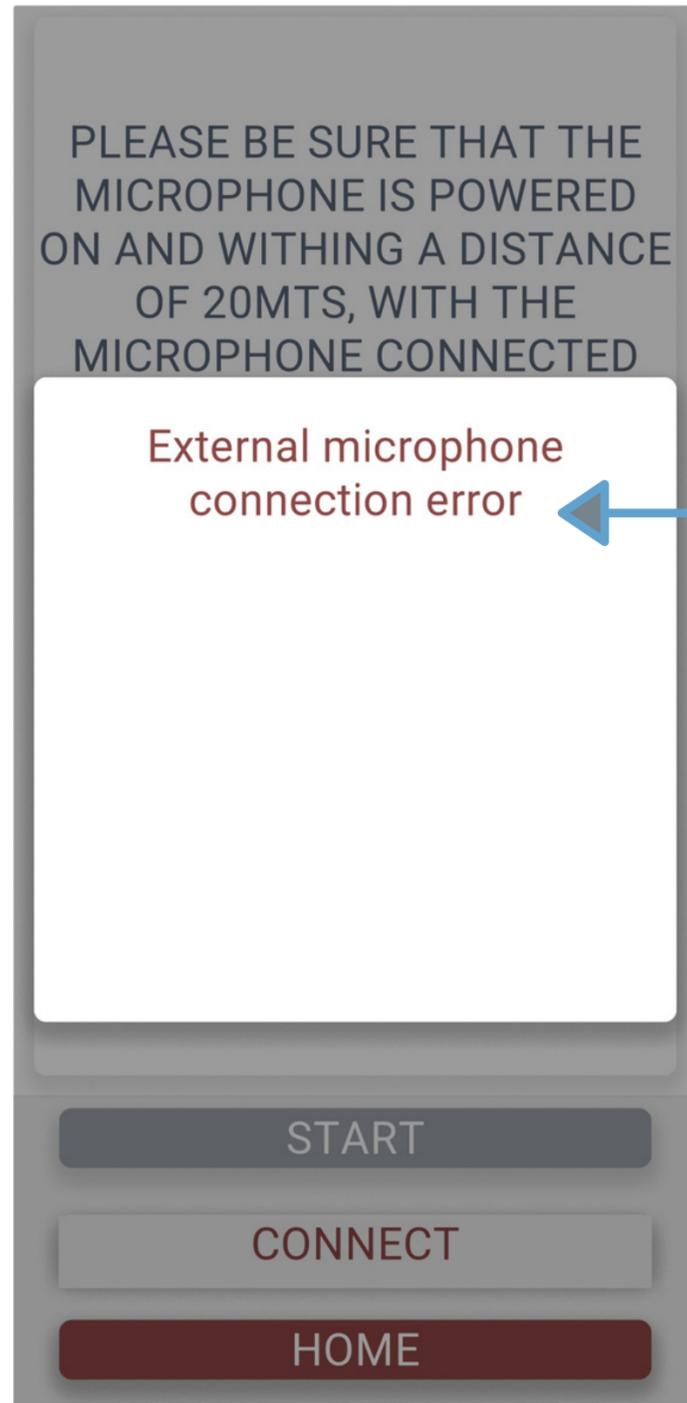
Pair the telephone to the raspberry through the wi-fi - search for Steelboxzen. The pairing mode is needed only the first time if not removed from the phone



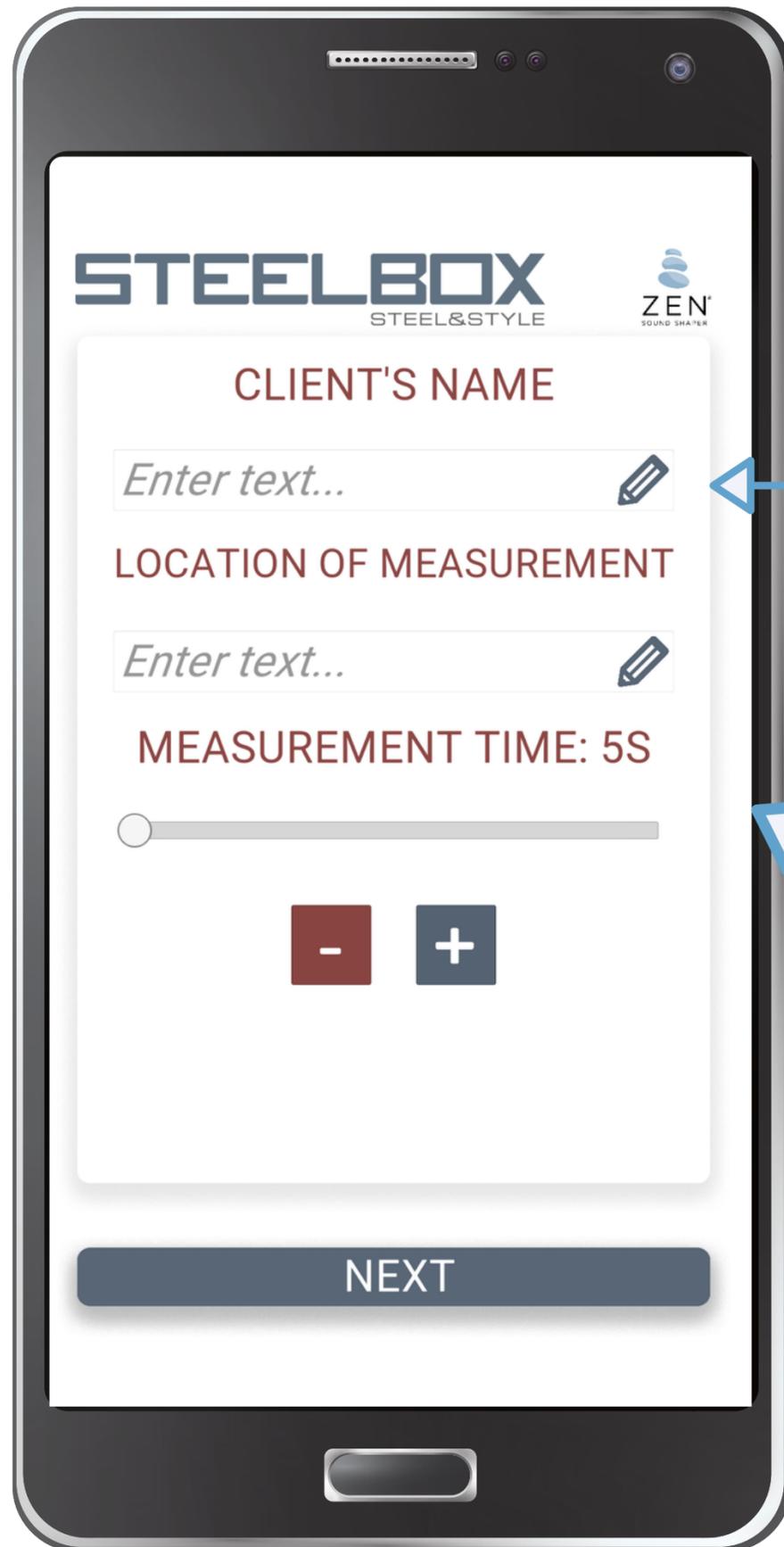
Press Connect



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



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



**STEELBOX**  
STEEL&STYLE

**ZEN**  
SOUND SHAPER

**CLIENT'S NAME**

*Enter text...*

**LOCATION OF MEASUREMENT**

*Enter text...*

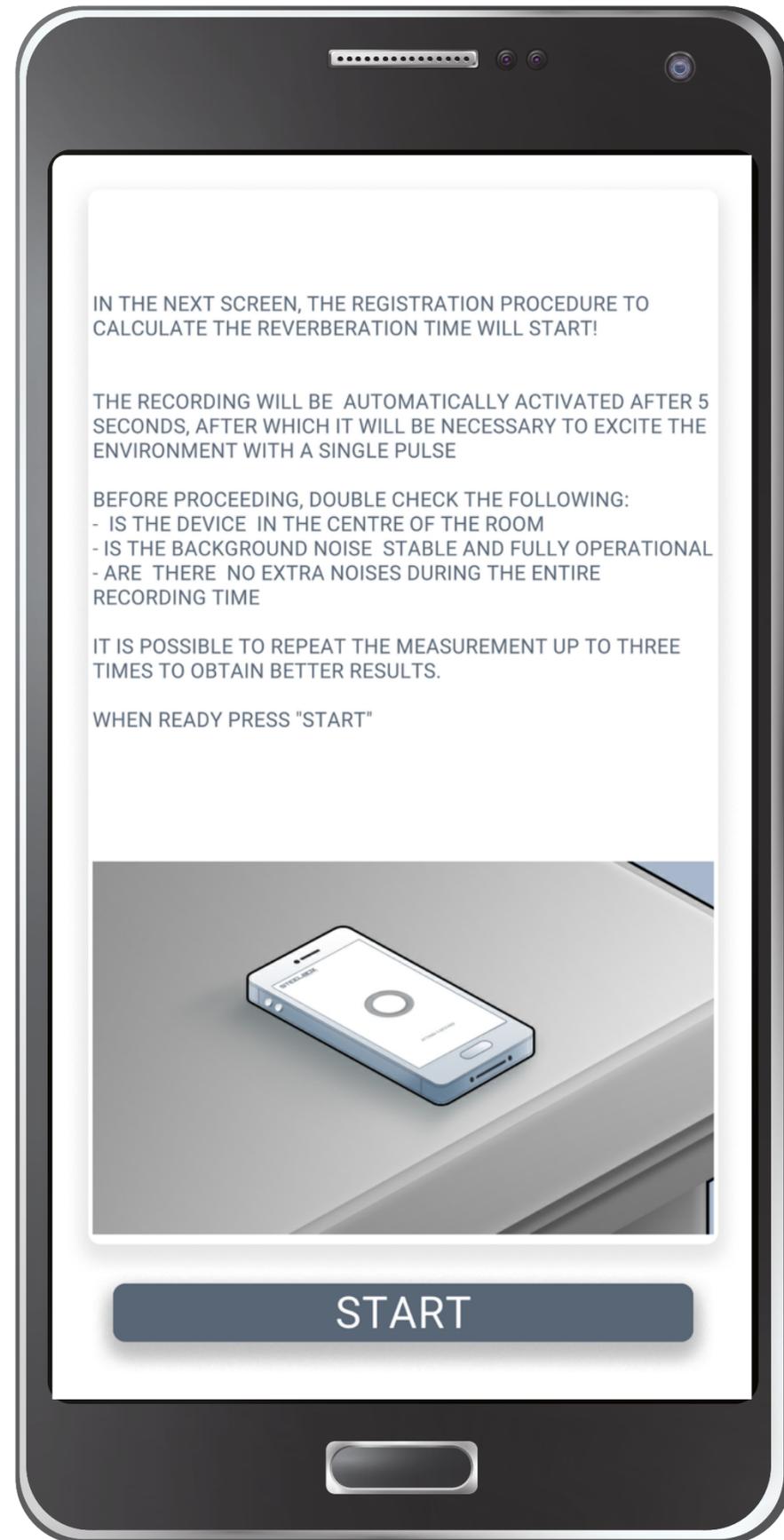
**MEASUREMENT TIME: 5S**

- +

**NEXT**

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



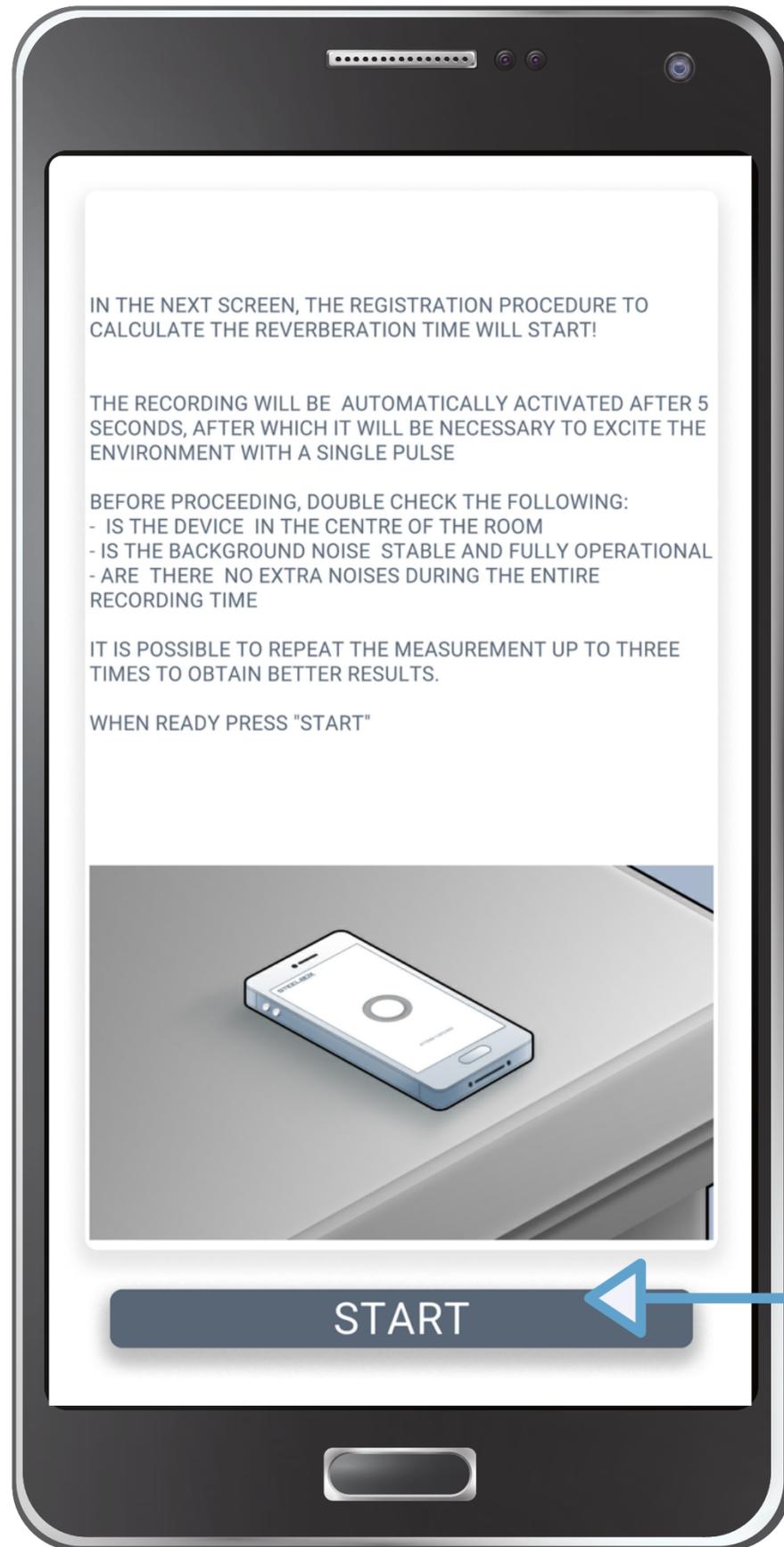
to prepare the room for  
correct measurement  
follow these instructions

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

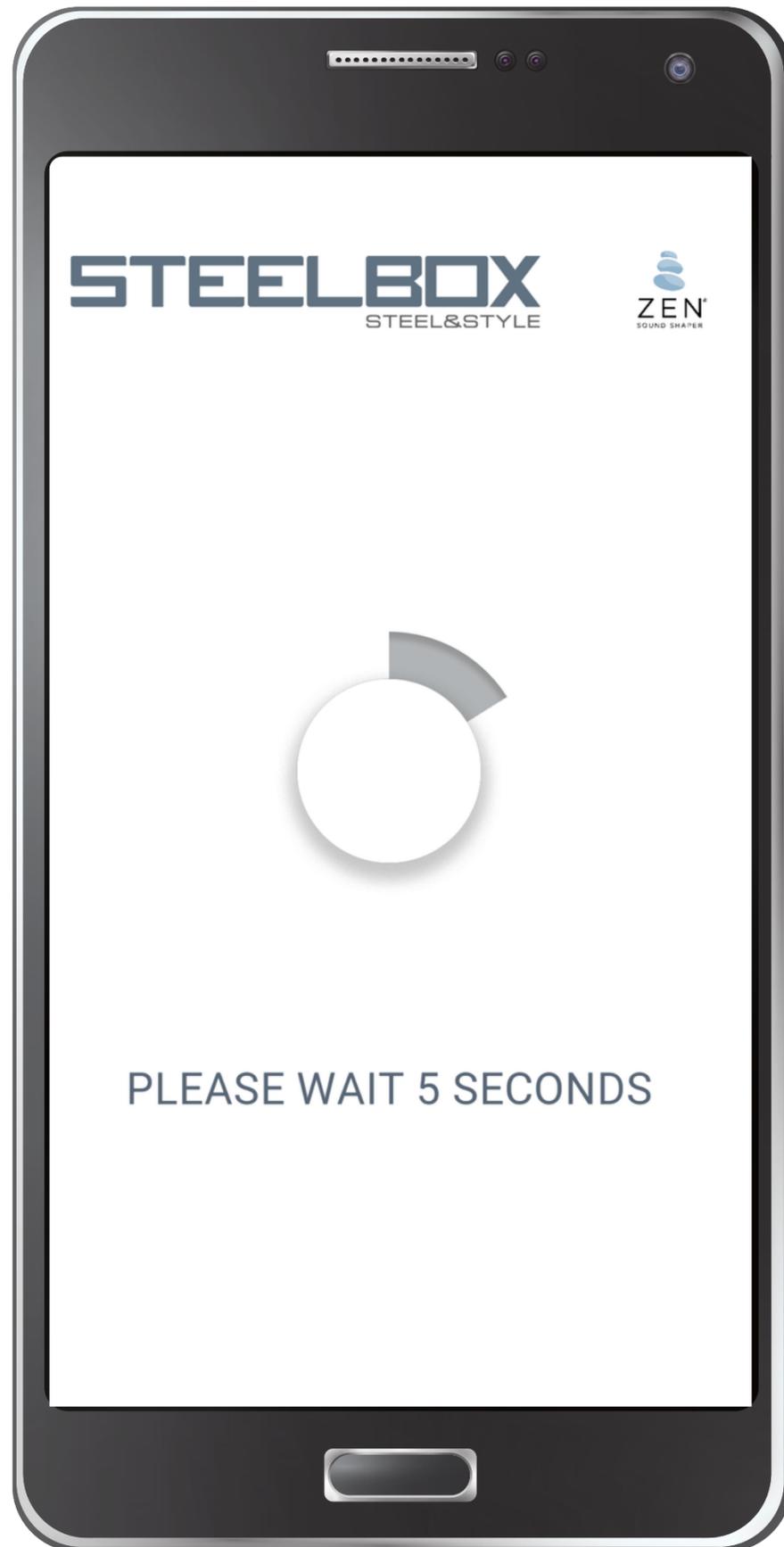


Be ready to re load the shooting pen for 3 times with the cartridges

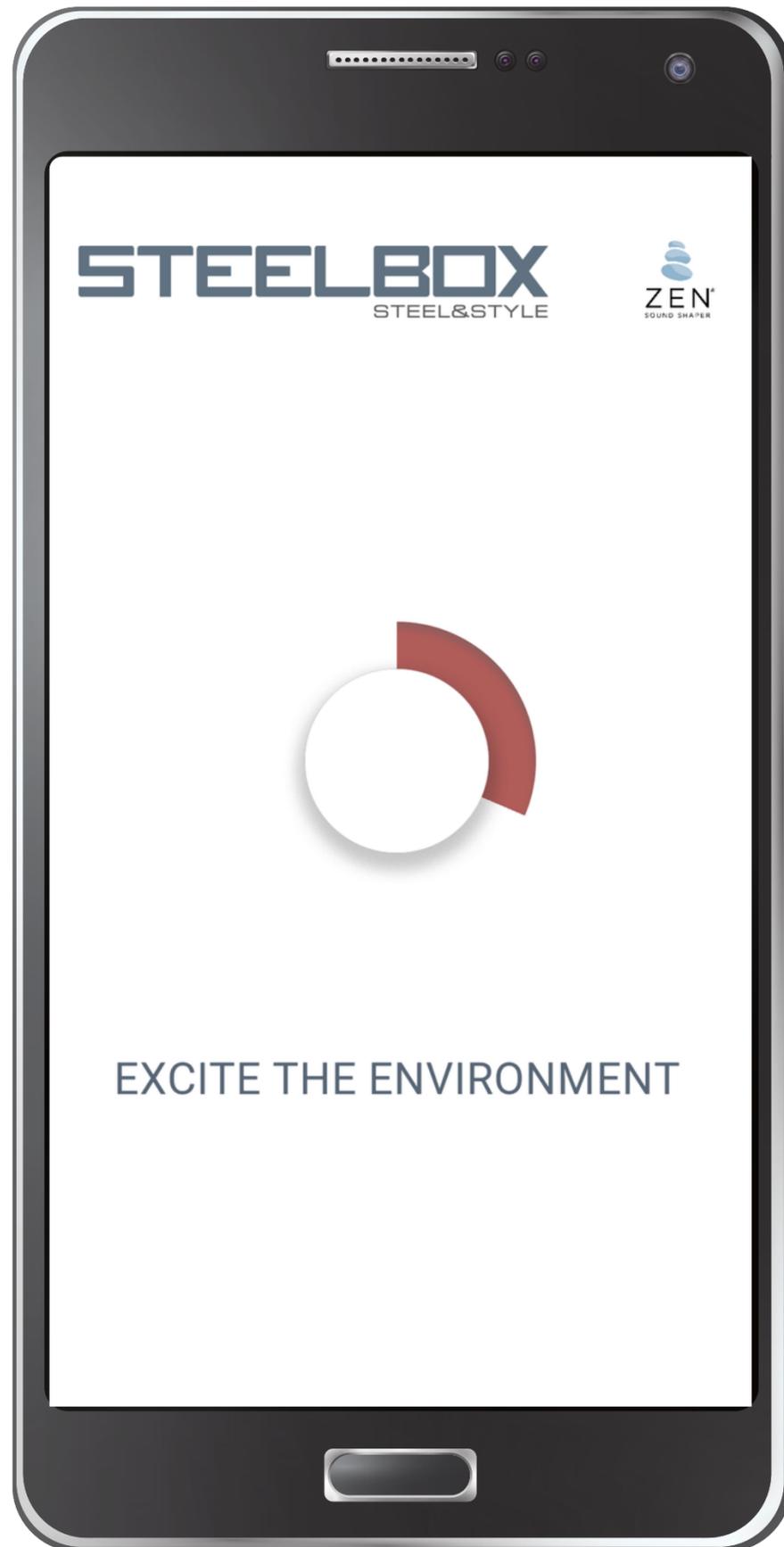
warning:  
always use earing protection before shooting with the pen



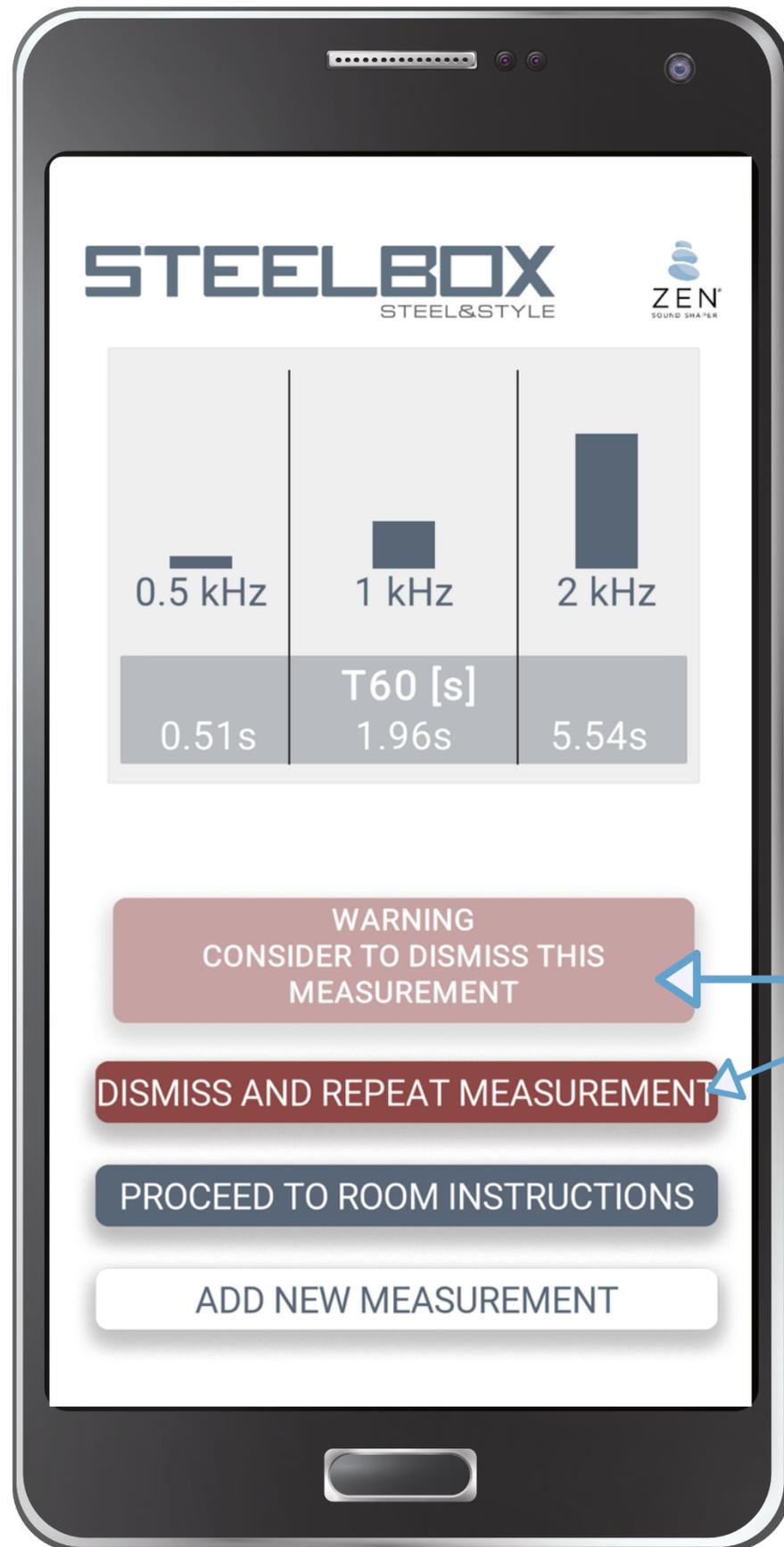
when ready with shooting  
pen and ear protection  
press start



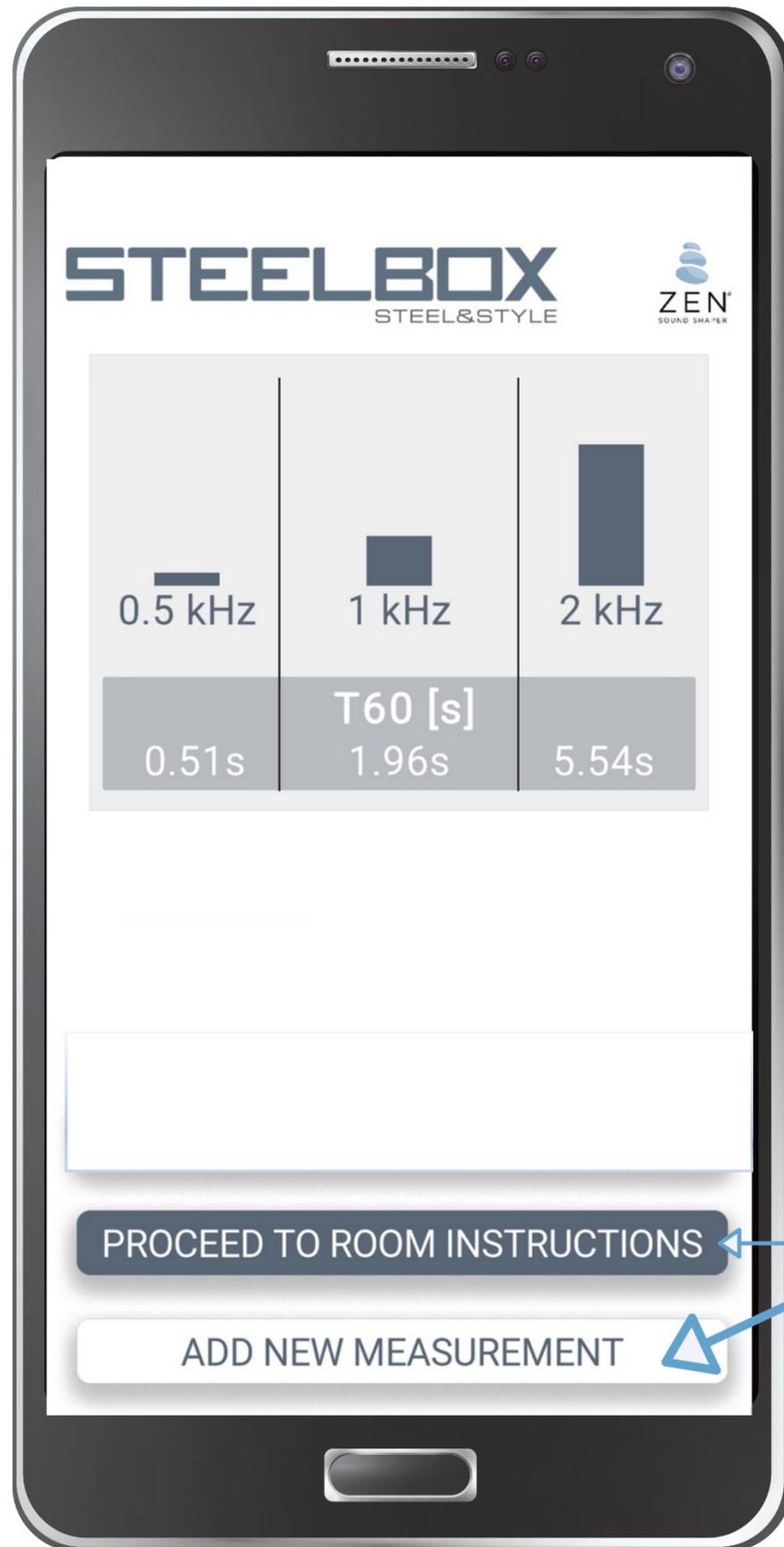
wait 5 seconds in silence  
to allow the mic to catch  
the room background  
noise



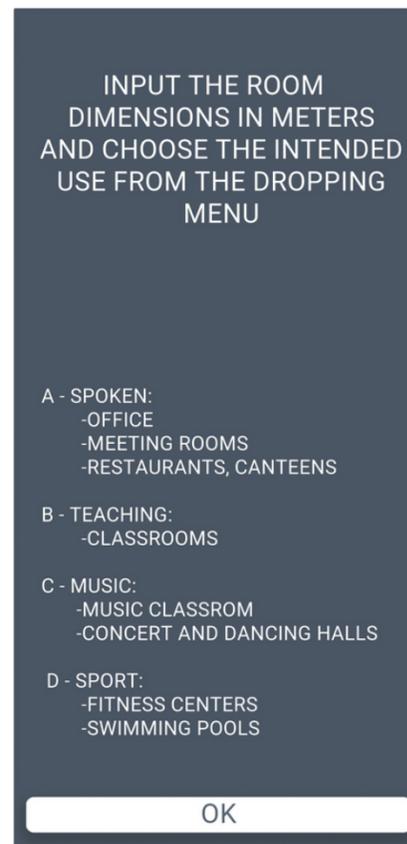
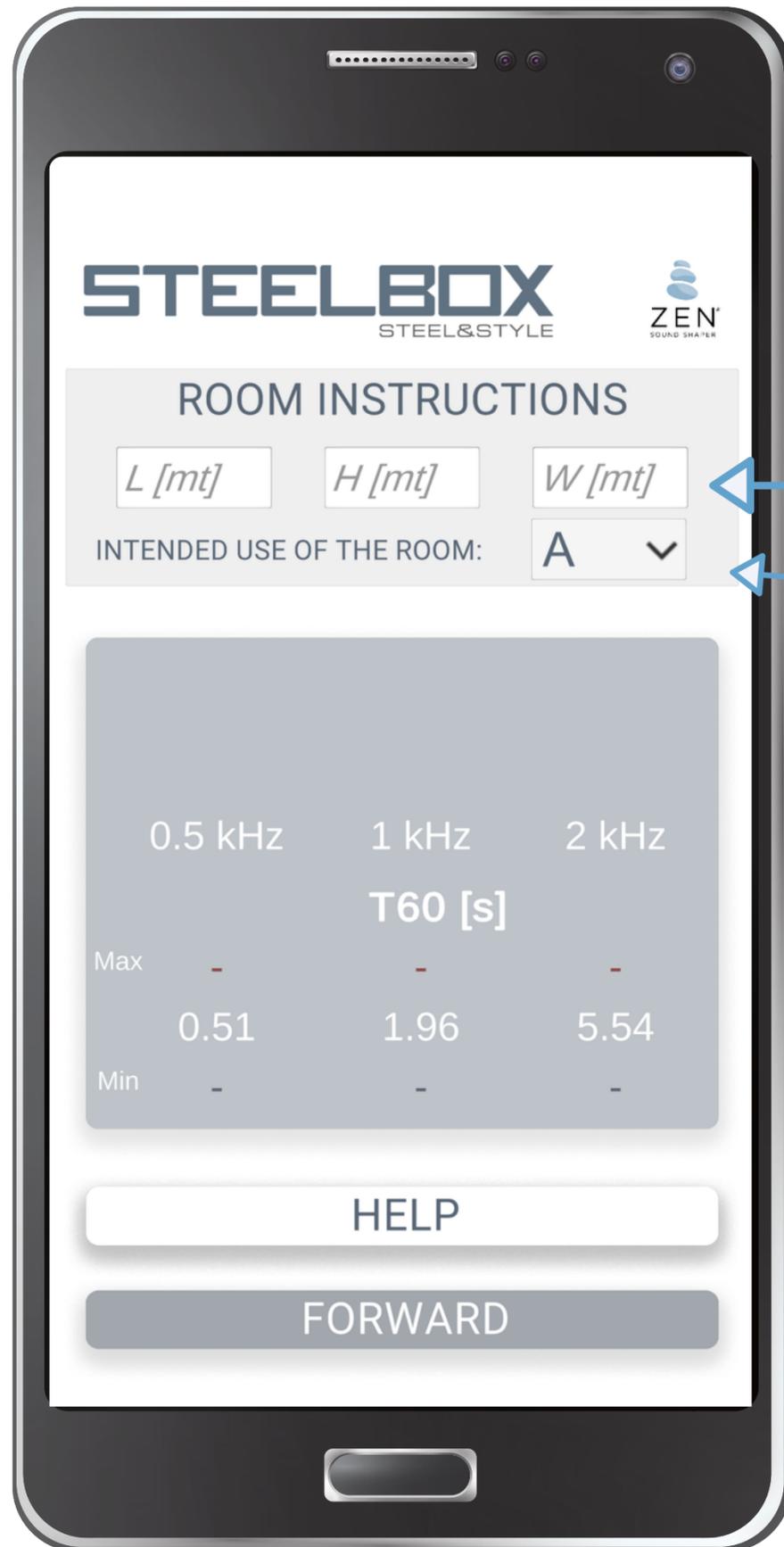
When the red sign starts  
turning counterclockwise  
Shoot with the Pen and  
excite the environment



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

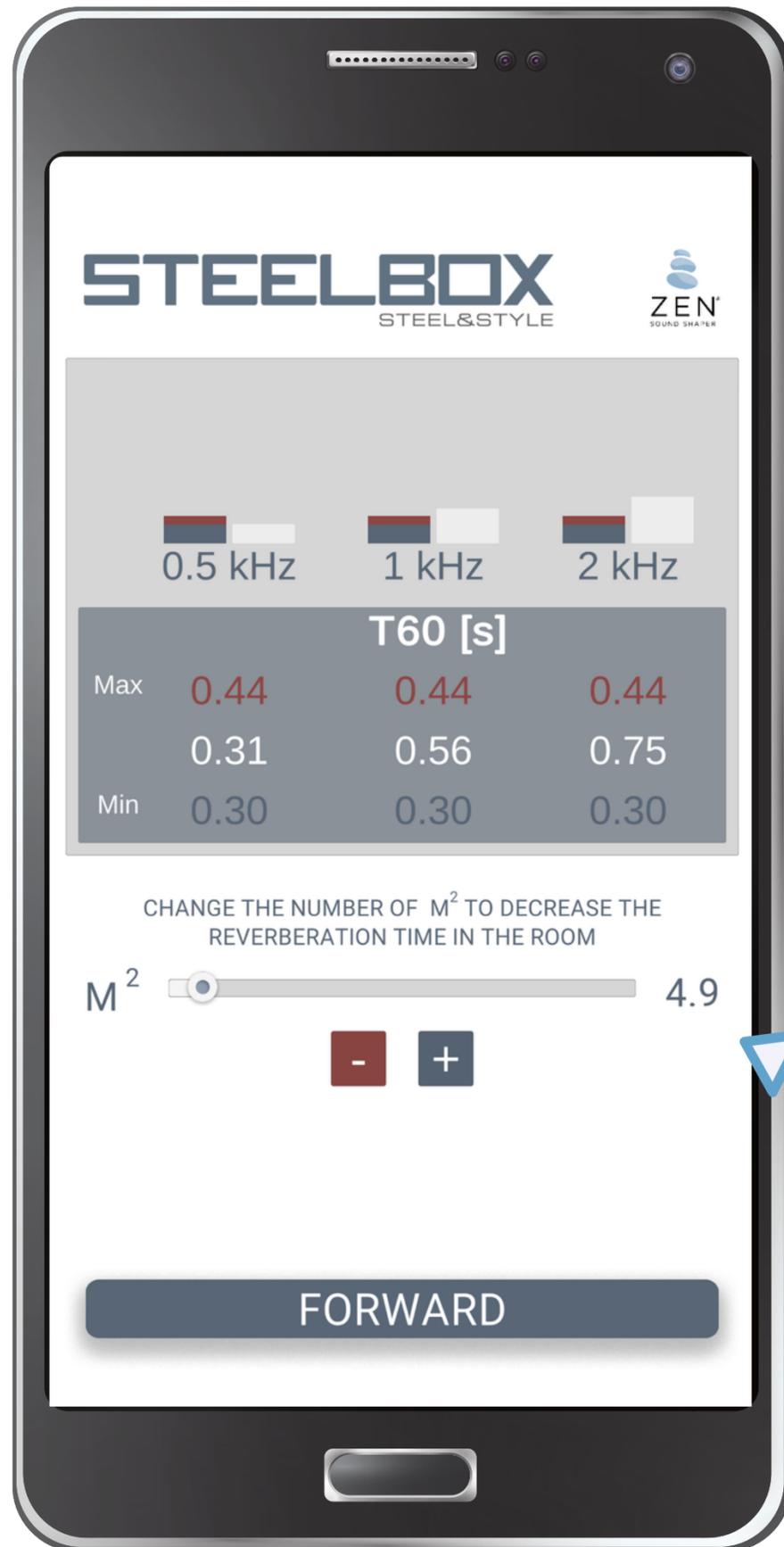


if the measurement is correct, add **2 more measurements** and when done, click on **proceed to room instructions**



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



## 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<sup>2</sup> 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

The screenshot shows the STEELBOX app interface. At the top, there are logos for STEELBOX STEEL&STYLE and ZEN SOUND SHAPER. Below this is a 'MEASUREMENT REPORT' section with a table of data. Underneath the report is a 'NAME' input field with a pencil icon. Further down is a 'CLIENT NAME' field with a pencil icon, followed by 'LOCATION', 'MOBILE', and 'EMAIL' fields, each with a pencil icon. At the bottom are two buttons: 'SEND EMAIL' (red) and 'SAVE' (blue).

MEASUREMENT REPORT			
T60 PRE	0.51 S	1.96 S	5.54 S
M <sup>2</sup> ZEN	4.9 M <sup>2</sup>		
T60 POST	0.31 S	0.56 S	0.75 S

T60 pre is the reverberation time of the room

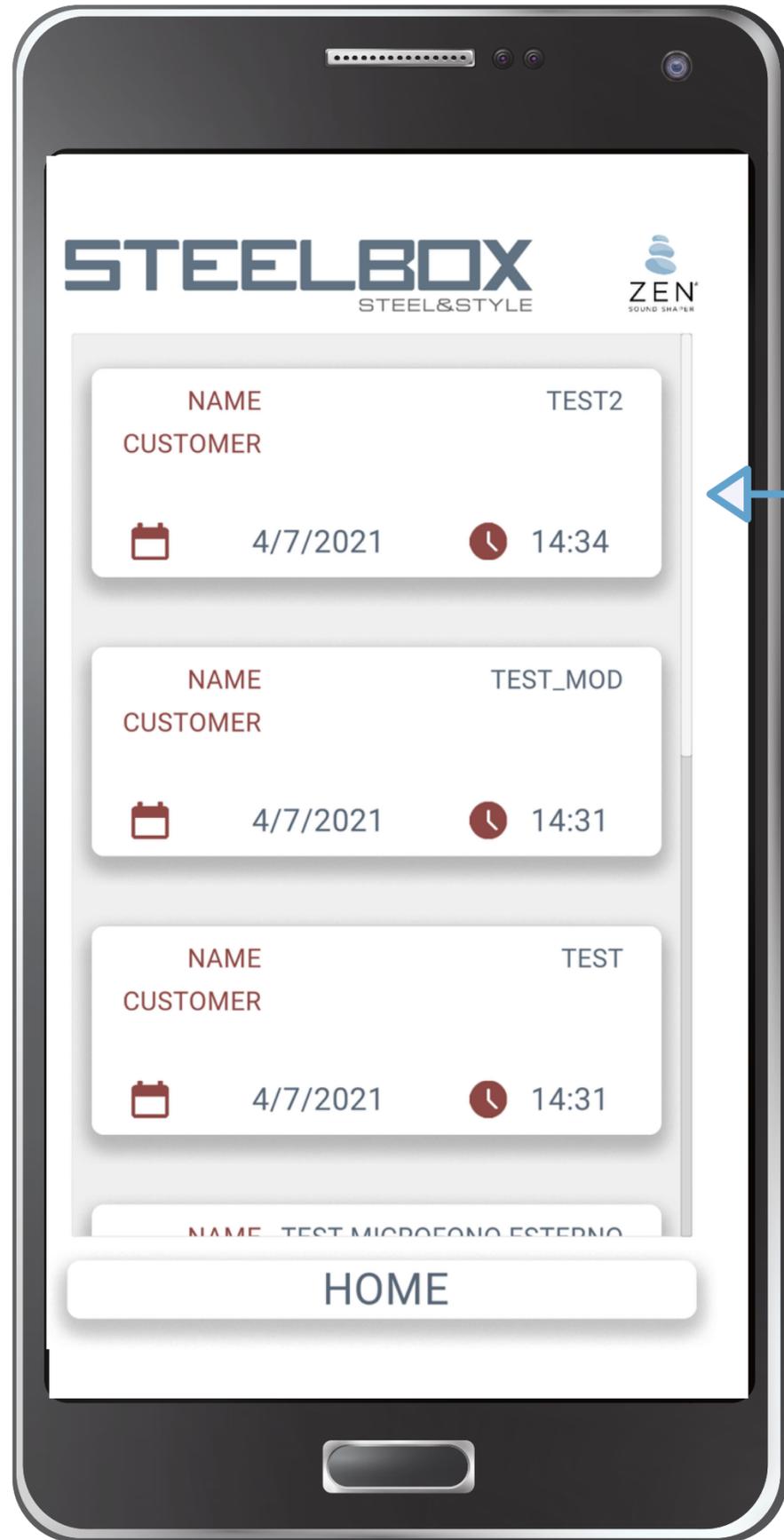
T60 post is the reverberation time of the room after the inclusion of the panels

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

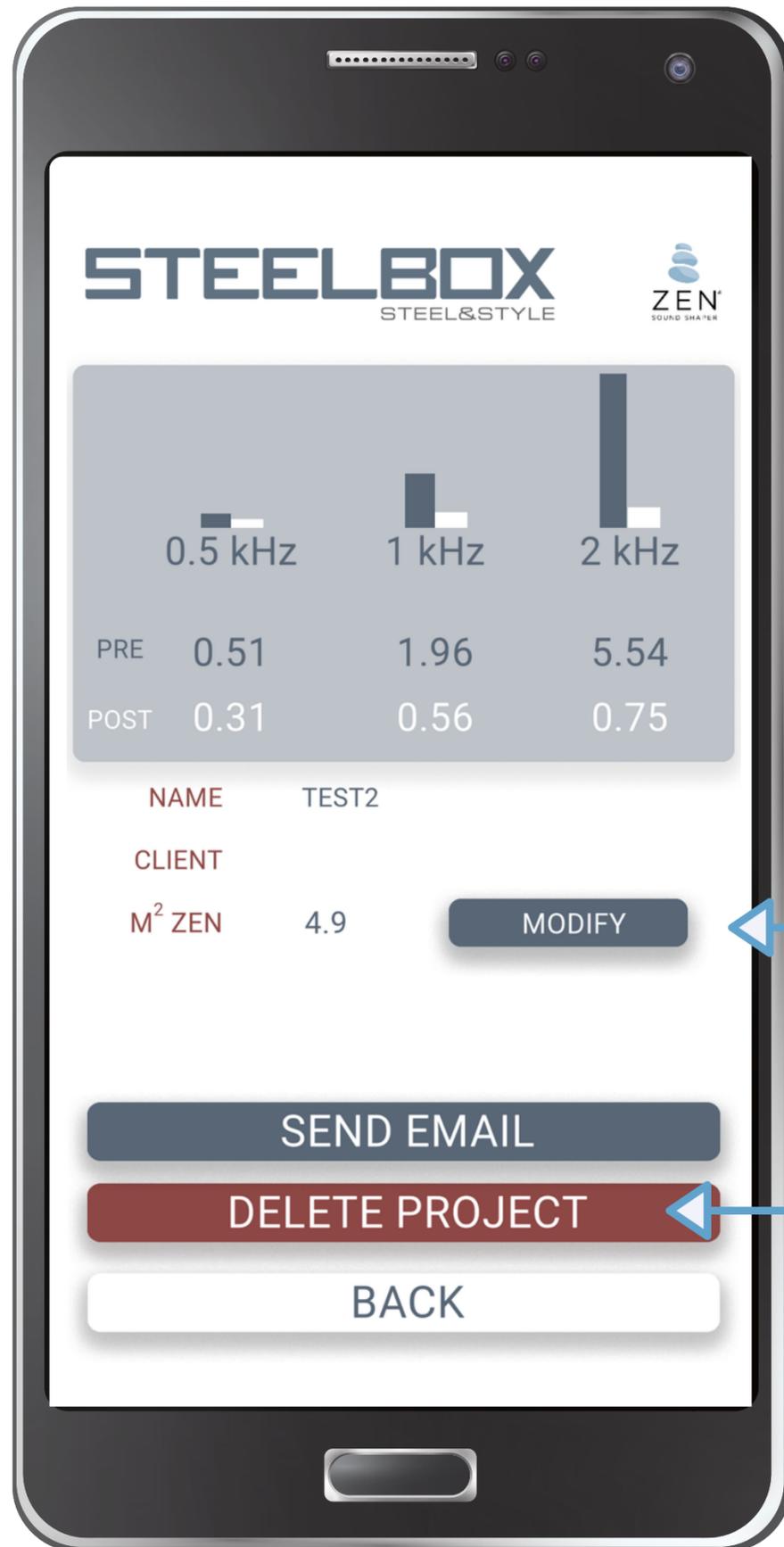
the email will be sent to the address indicated at the moment of the registration of the app

save the measurement for future consultation and changes



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



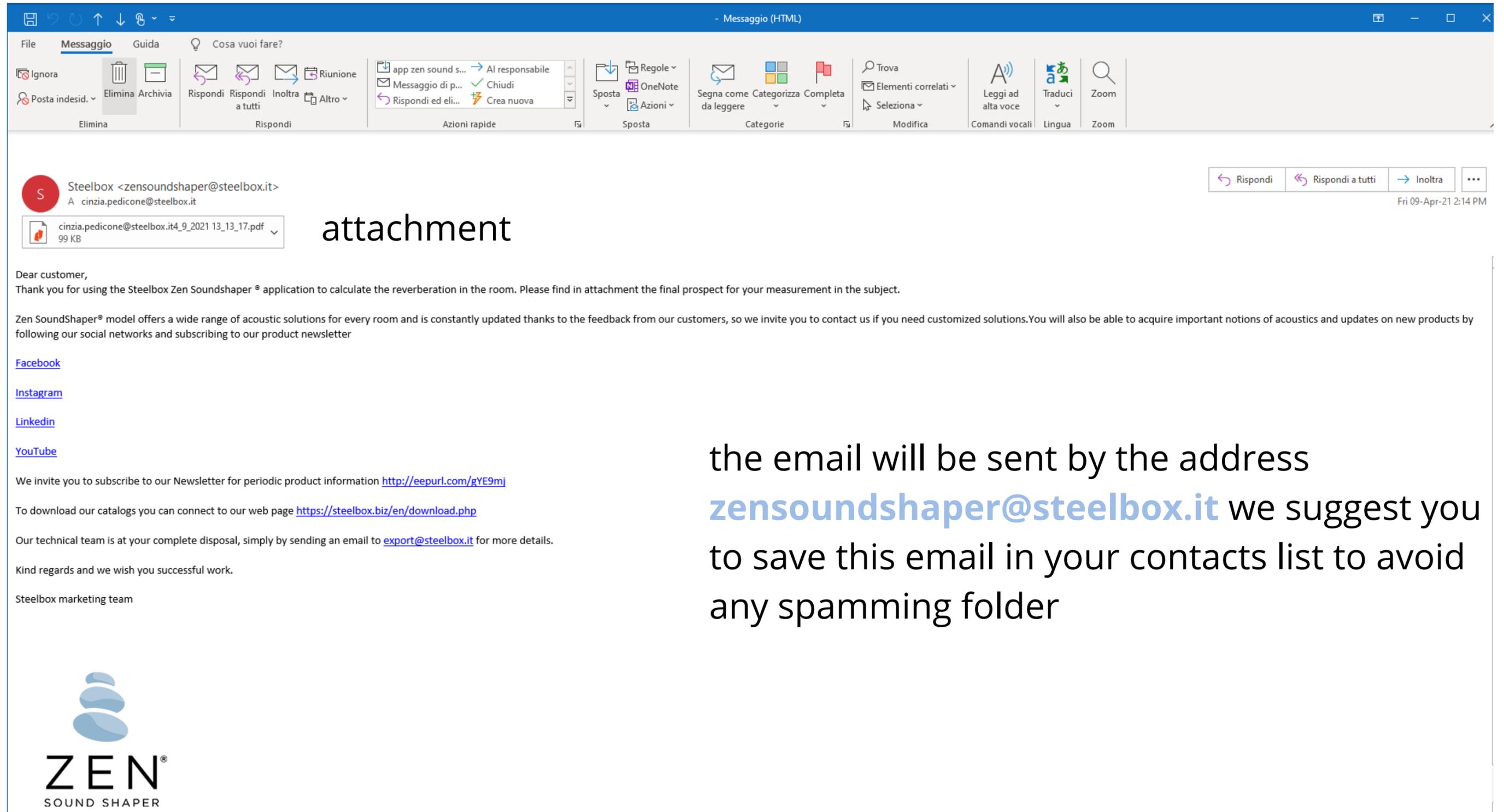


you can modify the quantity of the panels on saved projects according to your client's needs and again send the email with a new graphic.

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



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



The screenshot shows an email client window titled "- Messaggio (HTML)". The interface includes a menu bar with "File", "Messaggio", and "Guida". Below the menu is a ribbon with various actions like "Elimina", "Rispondi", "Inoltra", and "Azioni rapide". The email content is from "Steelbox <zensoundshaper@steelbox.it>" to "cinzia.pedicone@steelbox.it". It contains a PDF attachment named "cinzia.pedicone@steelbox.it4\_9\_2021 13\_13\_17.pdf" (99 KB) and the word "attachment" written in large black text. The email body text reads: "Dear customer, Thank you for using the Steelbox Zen Soundshaper<sup>®</sup> application to calculate the reverberation in the room. Please find in attachment the final prospect for your measurement in the subject. Zen SoundShaper<sup>®</sup> model offers a wide range of acoustic solutions for every room and is constantly updated thanks to the feedback from our customers, so we invite you to contact us if you need customized solutions. You will also be able to acquire important notions of acoustics and updates on new products by following our social networks and subscribing to our product newsletter. Facebook Instagram LinkedIn YouTube We invite you to subscribe to our Newsletter for periodic product information <http://eepurl.com/gYE9mj> To download our catalogs you can connect to our web page <https://steelbox.biz/en/download.php> Our technical team is at your complete disposal, simply by sending an email to [export@steelbox.it](mailto:export@steelbox.it) for more details. Kind regards and we wish you successful work. Steelbox marketing team". At the bottom left of the email content is the ZEN SOUND SHAPER logo. A large text overlay on the right side of the screenshot reads: "the email will be sent by the address [zensoundshaper@steelbox.it](mailto:zensoundshaper@steelbox.it) we suggest you to save this email in your contacts list to avoid any spamming folder".

CLIENTE SUSHI CORNER  
OGGETTO 1

DIMENSIONI Largh. Prof. Alt.  
Mt 13.23 8.69 2.69 VOLUME MC 309.27

MISURAZIONE ACUSTICA

T 60

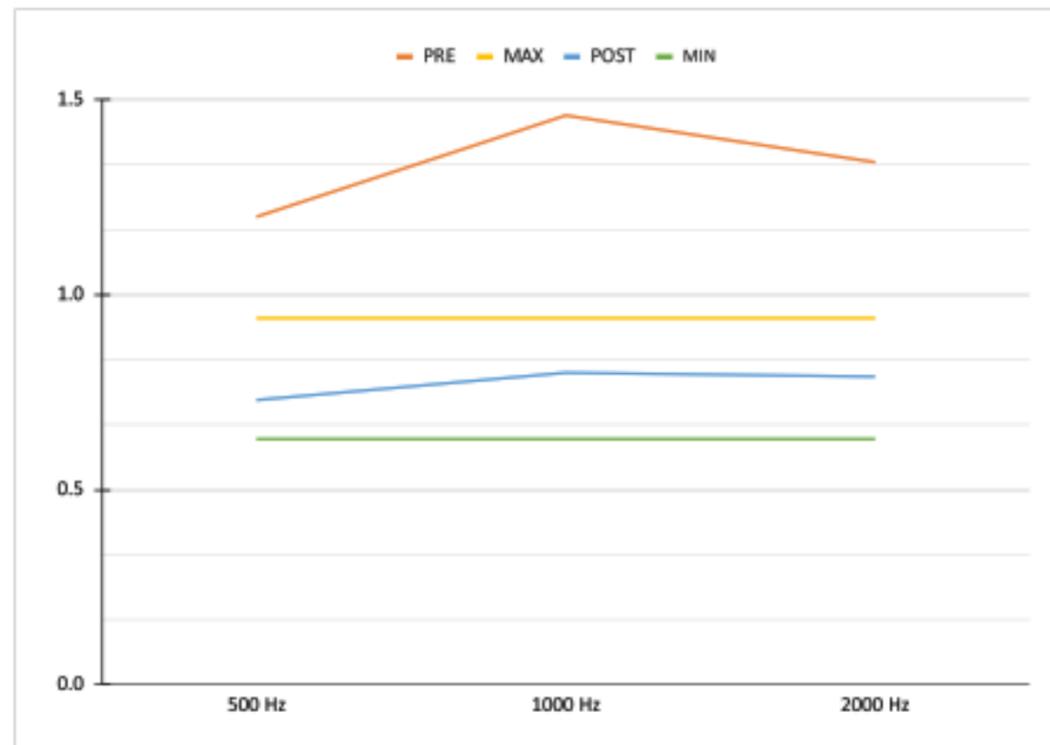
STATO DI FATTO

	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<sup>®</sup> panels

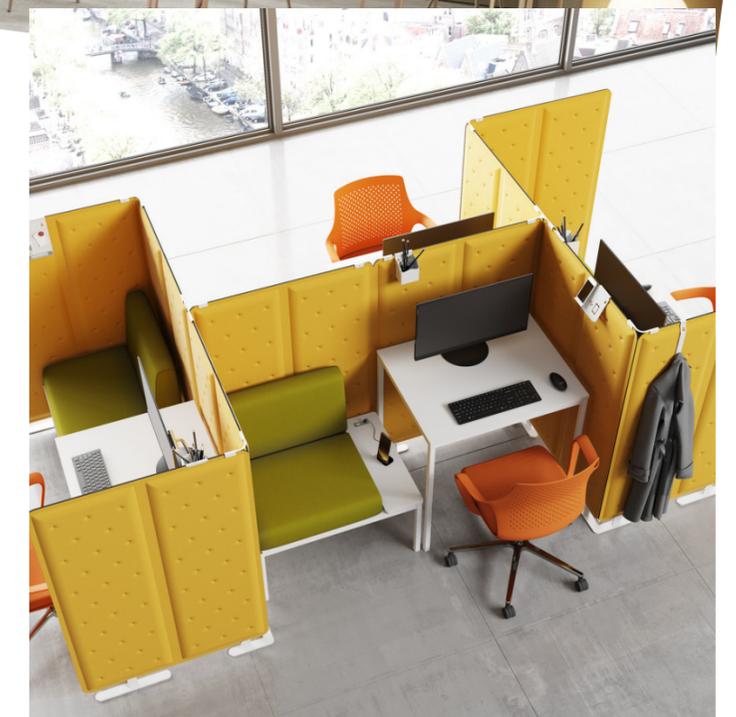
**Green:** is the reverberation time suggested before to loose the acoustic comfort due to thud sound

## 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.**

<b>Pannelli acustici bifacciali</b> <i>Two sides acoustic panels</i>	<b>MQ</b>
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

<b>Pannelli monofacciali</b> <i>One side acoustic panels</i>	<b>MQ</b>
<b>Tangram</b>	<b>0,81</b>
<b>Ceiling 590x590</b>	<b>0,35</b>
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





help and support: [marketing@steelbox.it](mailto:marketing@steelbox.it)



ZEN<sup>®</sup>

SOUND SHAPER

Design Roberto Molteni

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