



ZEN®
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**





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

or follow this
instructions for detailed
information

content of Zen measurement kit



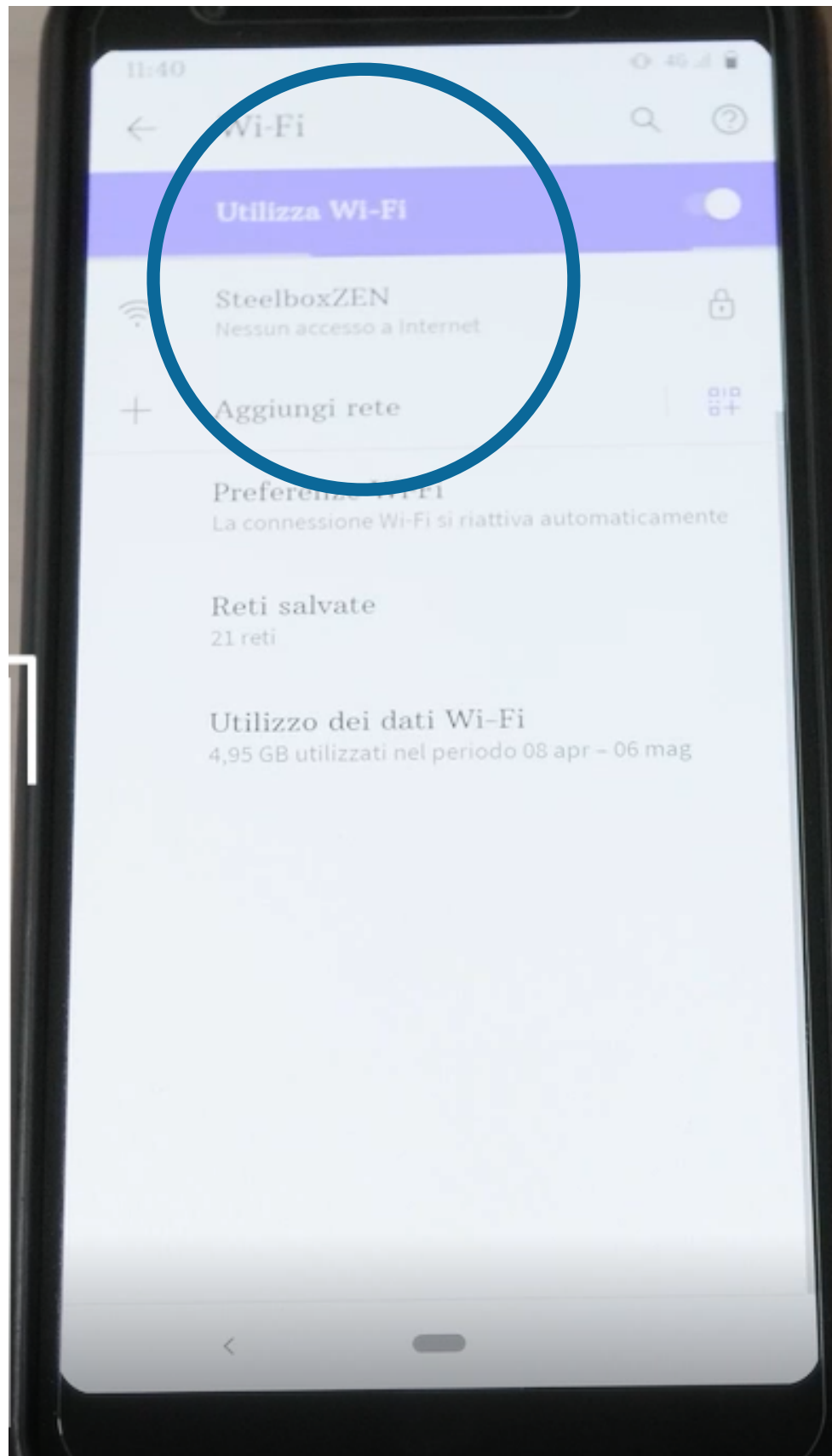
- 1 Mic
- 2 Mic stand
- 3 Cartridges
- 4 Shooting pen
- 5 Ear protectors
- 6 Raspberry
- 7 Power chord



Place microfone on its
stand and connect the
raspberry



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



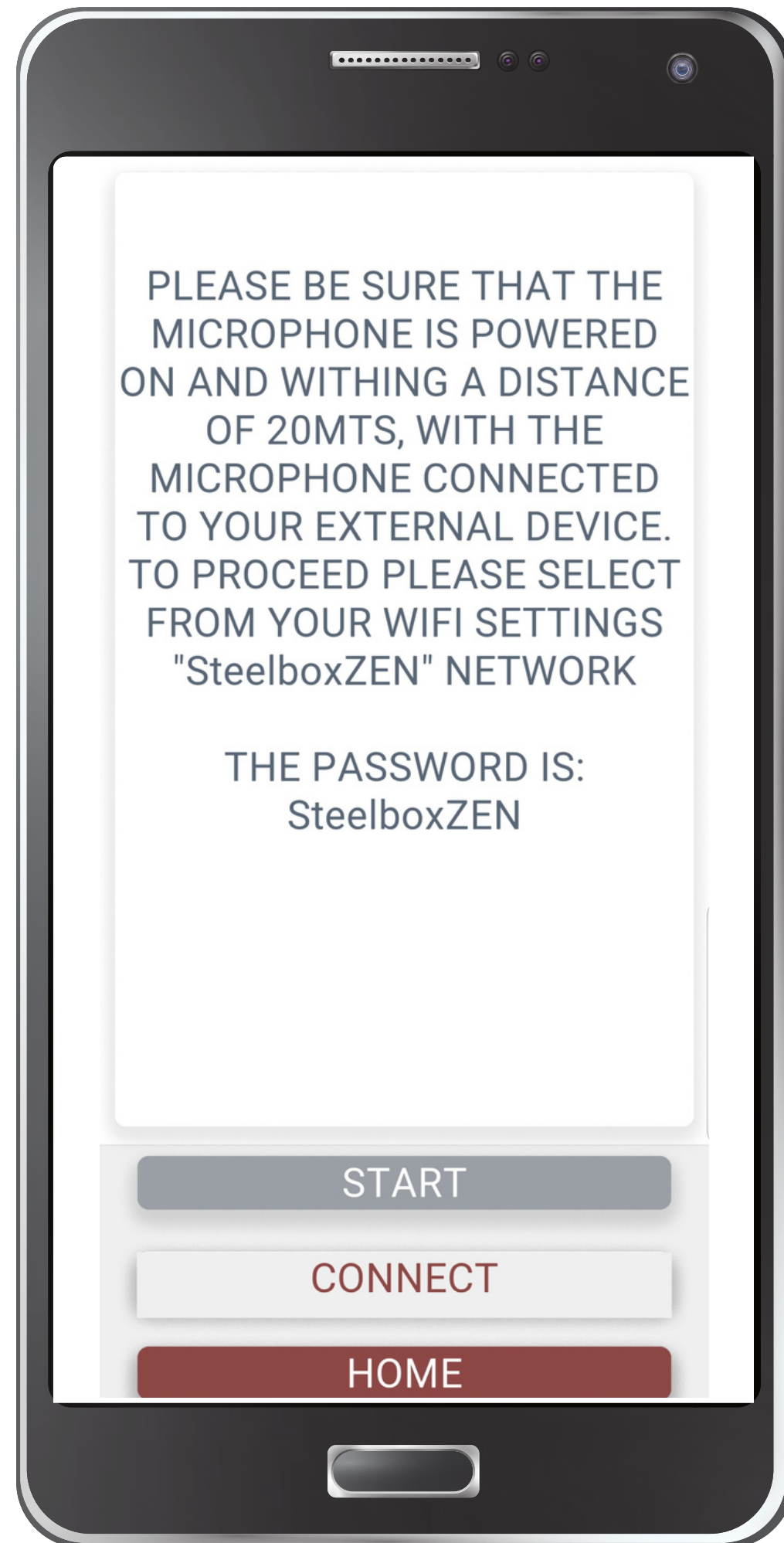
After the download of the app and with the measurement kit it's needful to start on the Raspberry and pair the phone in the same Zen Network wi-fi to start using the app.



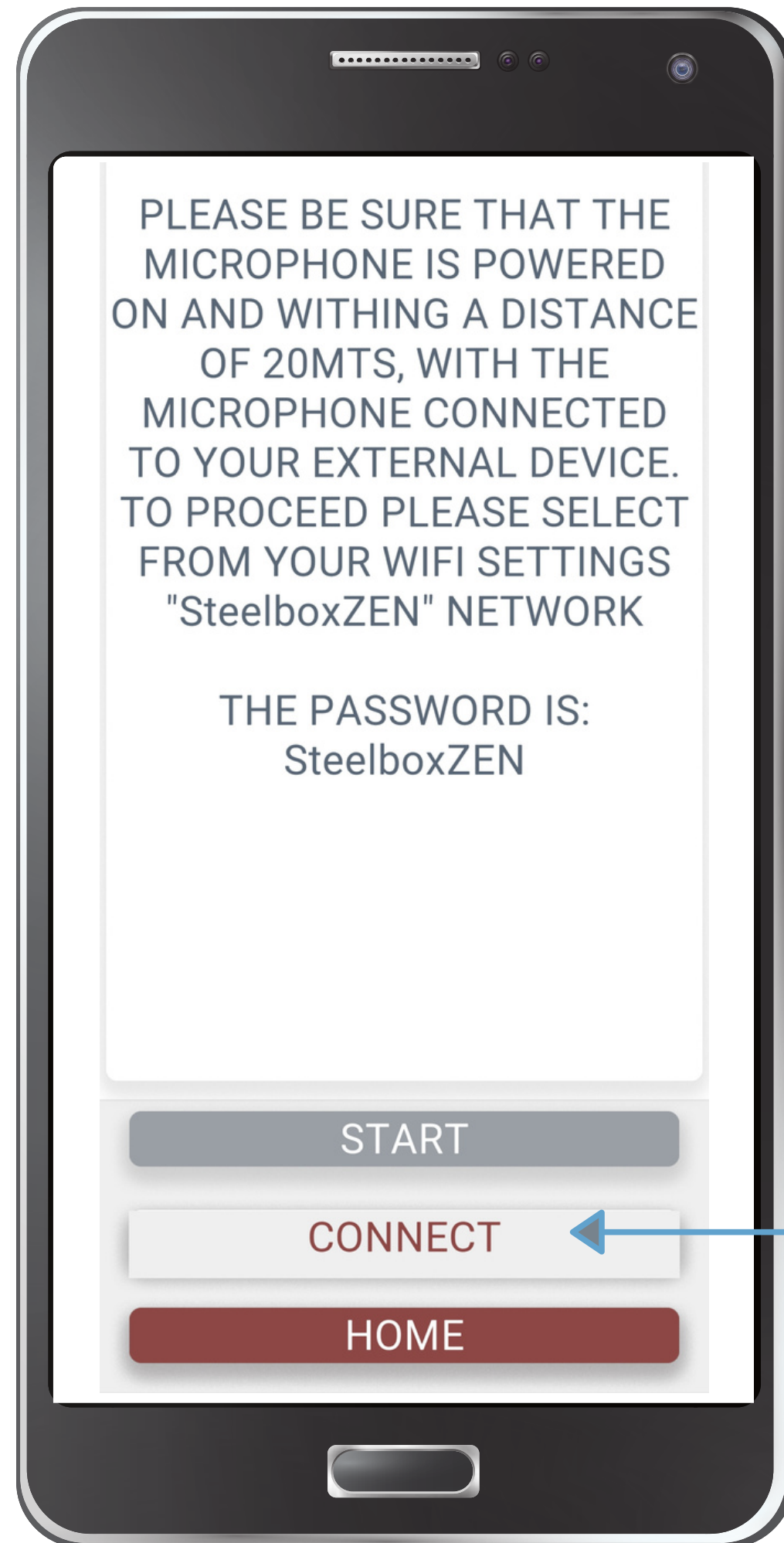
start a new measurement



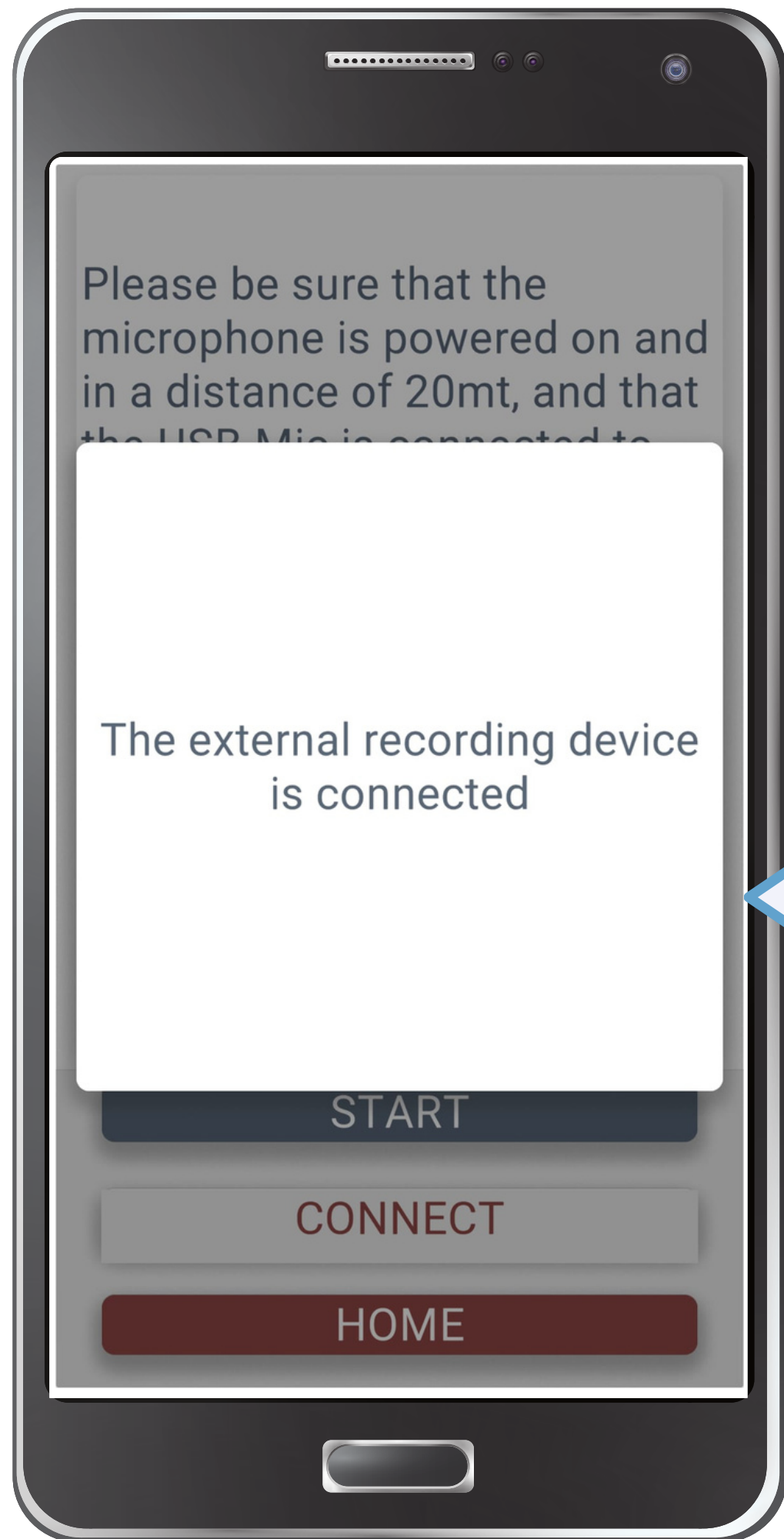
before to start it's needful
to pair the external
microfone of the Zen
measurement kit



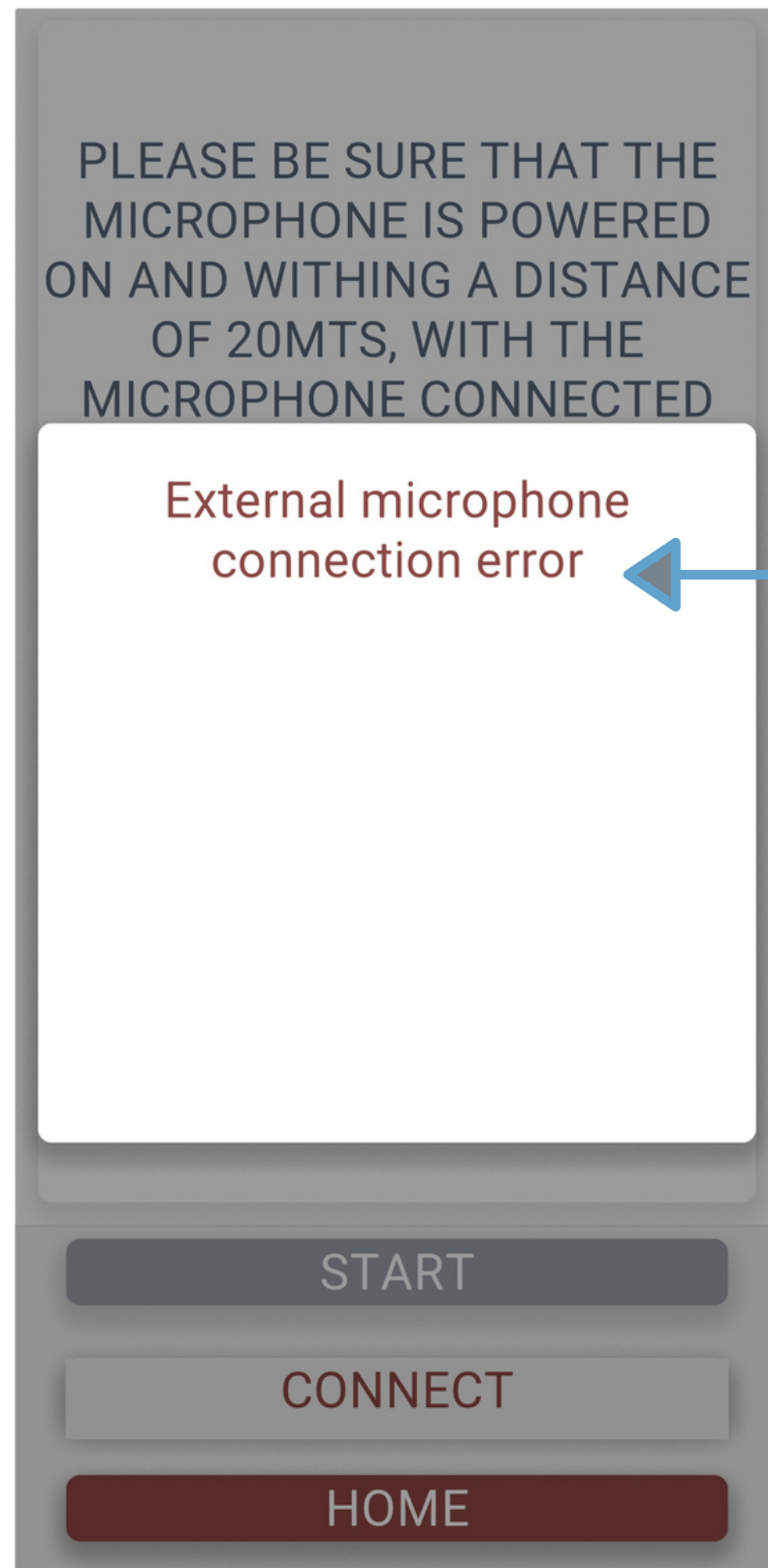
Pair the telephone to the raspberry through the wi-fi - search for Steelbox zen. The pairing mode is needed only the first time if not removed from the phone



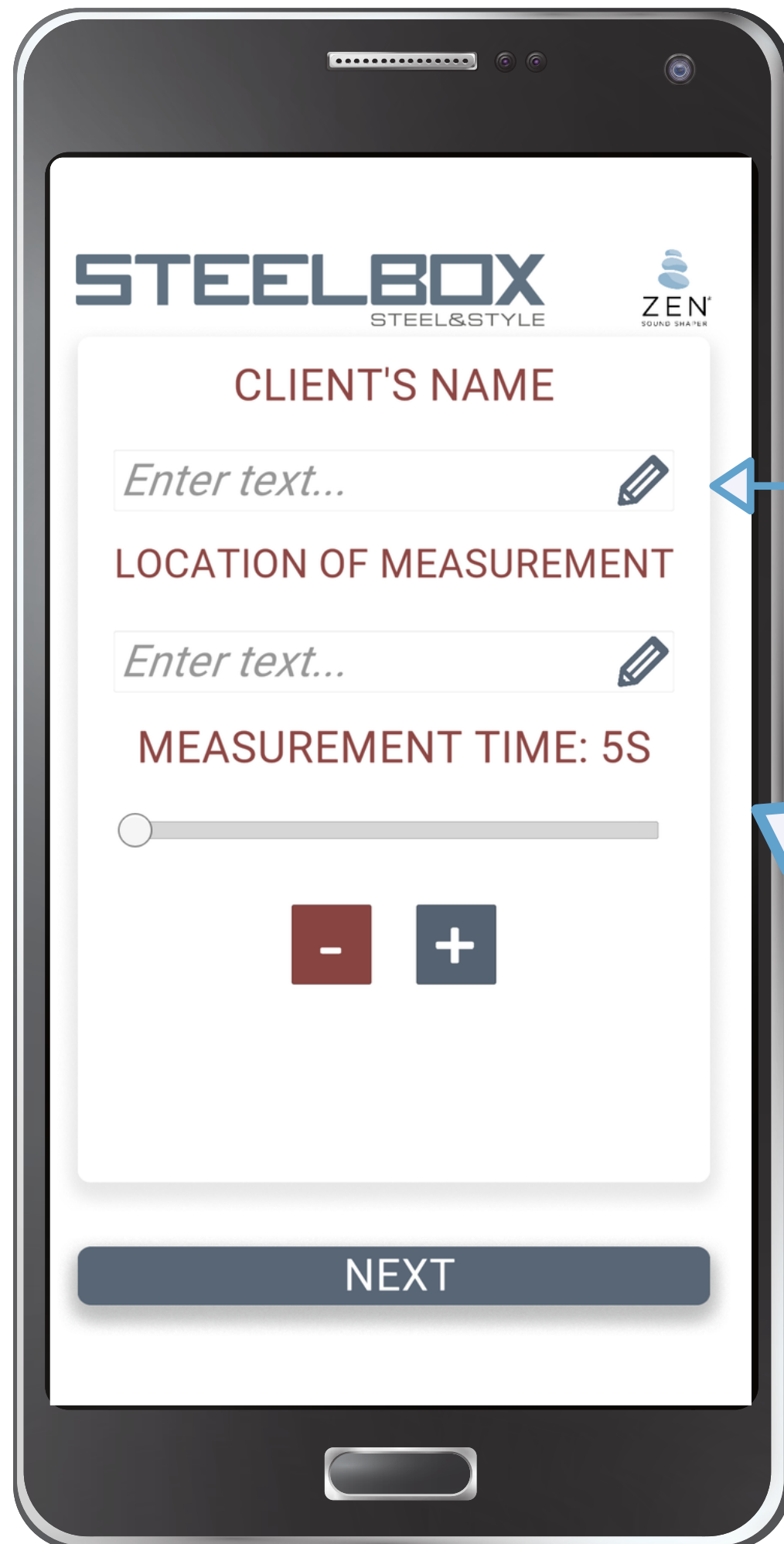
Press Connect



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



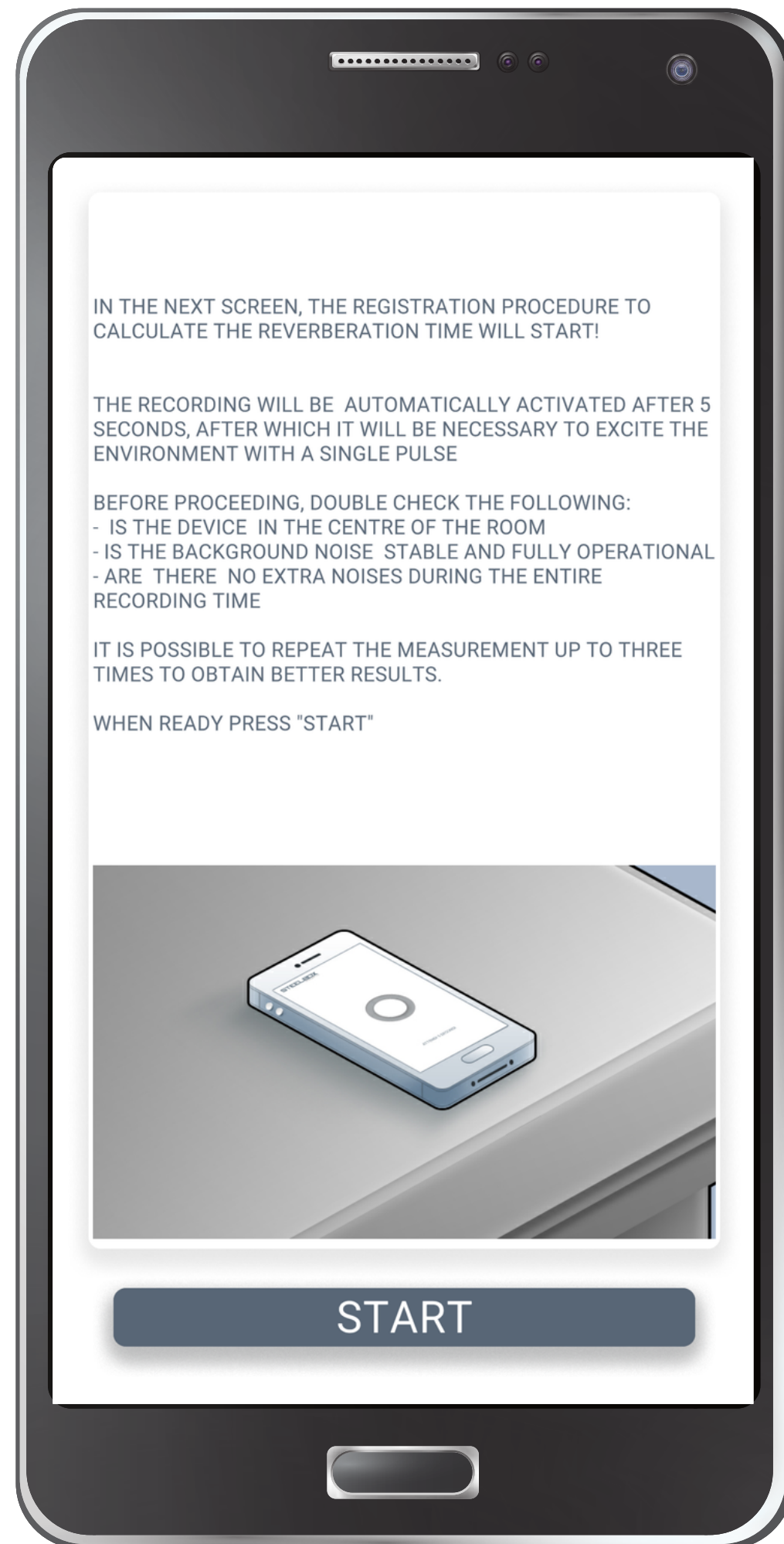
If the pairing has not been successfully when pressing connect the app will give error. Repeat all the passages



The image shows a smartphone screen with the STEELBOX app interface. The app has a white background with a dark header bar. The header bar contains the 'STEELBOX' logo in large, bold, dark blue letters, with 'STEEL&STYLE' in smaller text below it. To the right of the logo is the 'ZEN' logo, which consists of a stylized blue wave icon and the text 'ZEN' above 'SOUND SHAPER'. Below the header, the form is titled 'CLIENT'S NAME' in red. It features a text input field with the placeholder 'Enter text...' and a pencil icon for editing. Below this is the 'LOCATION OF MEASUREMENT' section, also in red, with another text input field and a pencil icon. The 'MEASUREMENT TIME: 5S' section is in red and includes a horizontal slider bar with a circular handle. Below the slider are two square buttons: a red one with a minus sign and a dark blue one with a plus sign. At the bottom of the form is a dark blue button with the word 'NEXT' in white capital letters. Two blue arrows point from the text on the right to the text input fields and the slider bar.

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

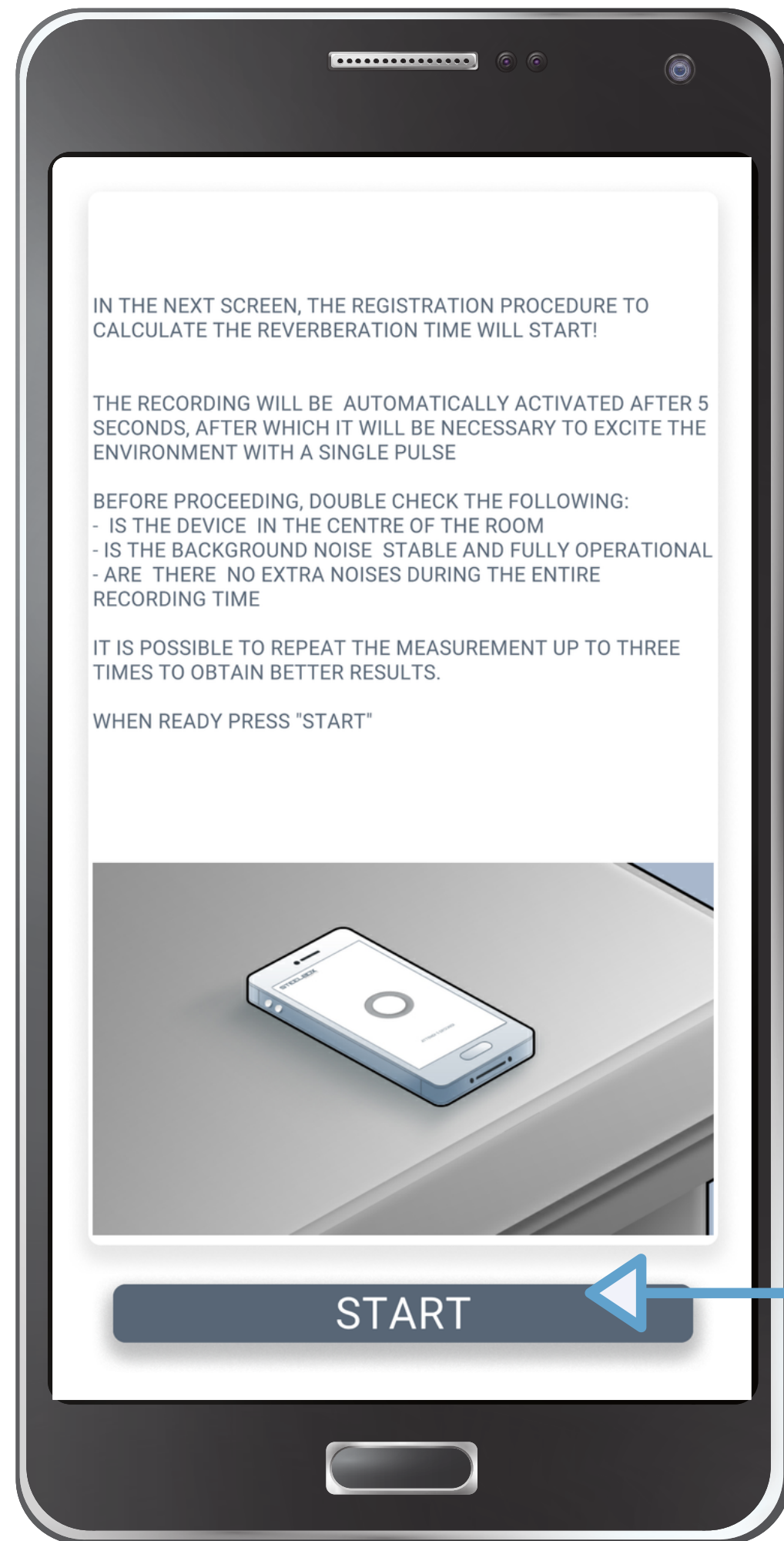


to prepare the room for
correct measurement
follow these instructions
**Before to press start
you will need to be
ready to prepare the
Shooting pen for 3
shots.**

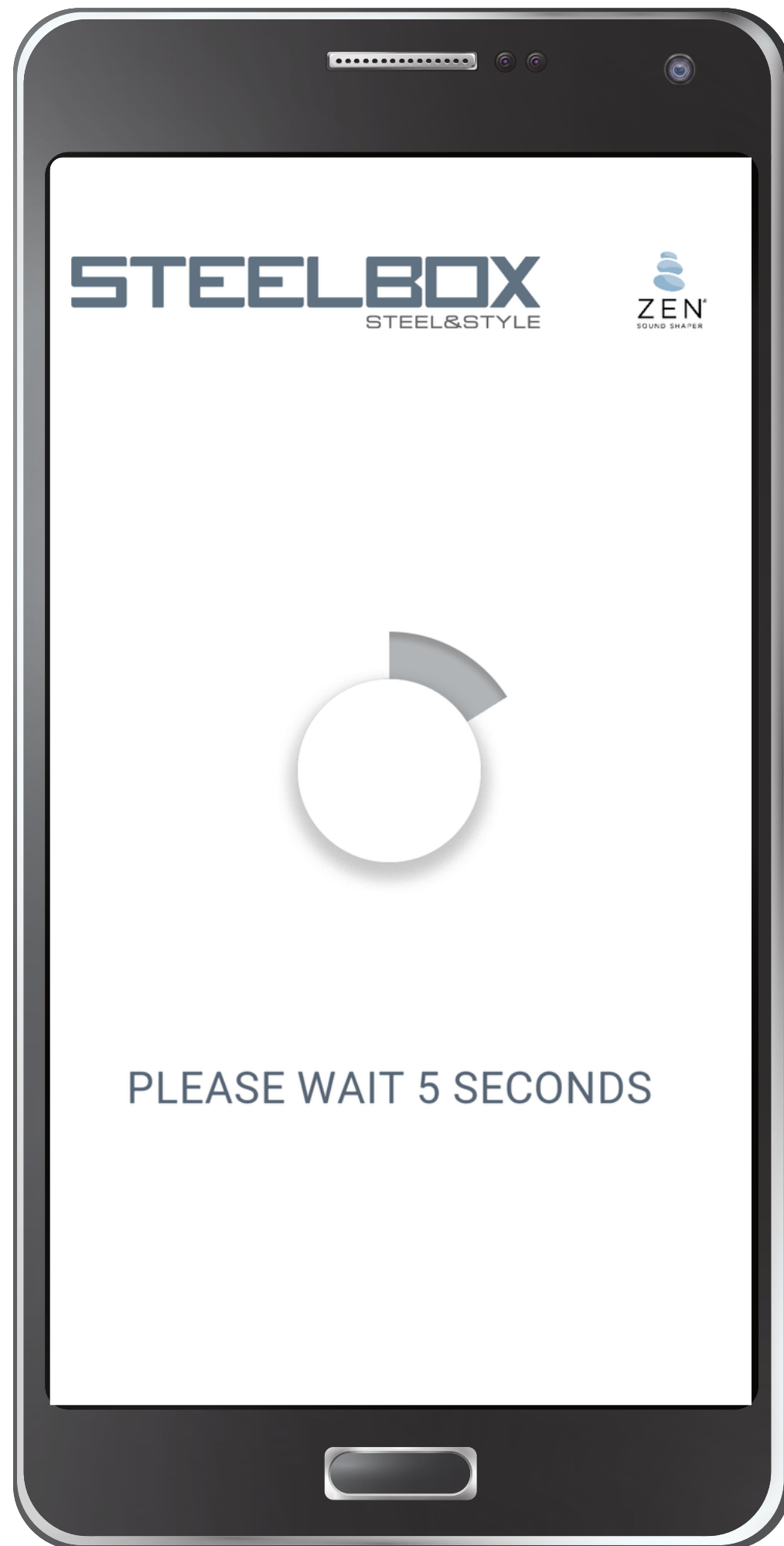


Be ready to re load the
shooting pen for 3 times
with the cartridges

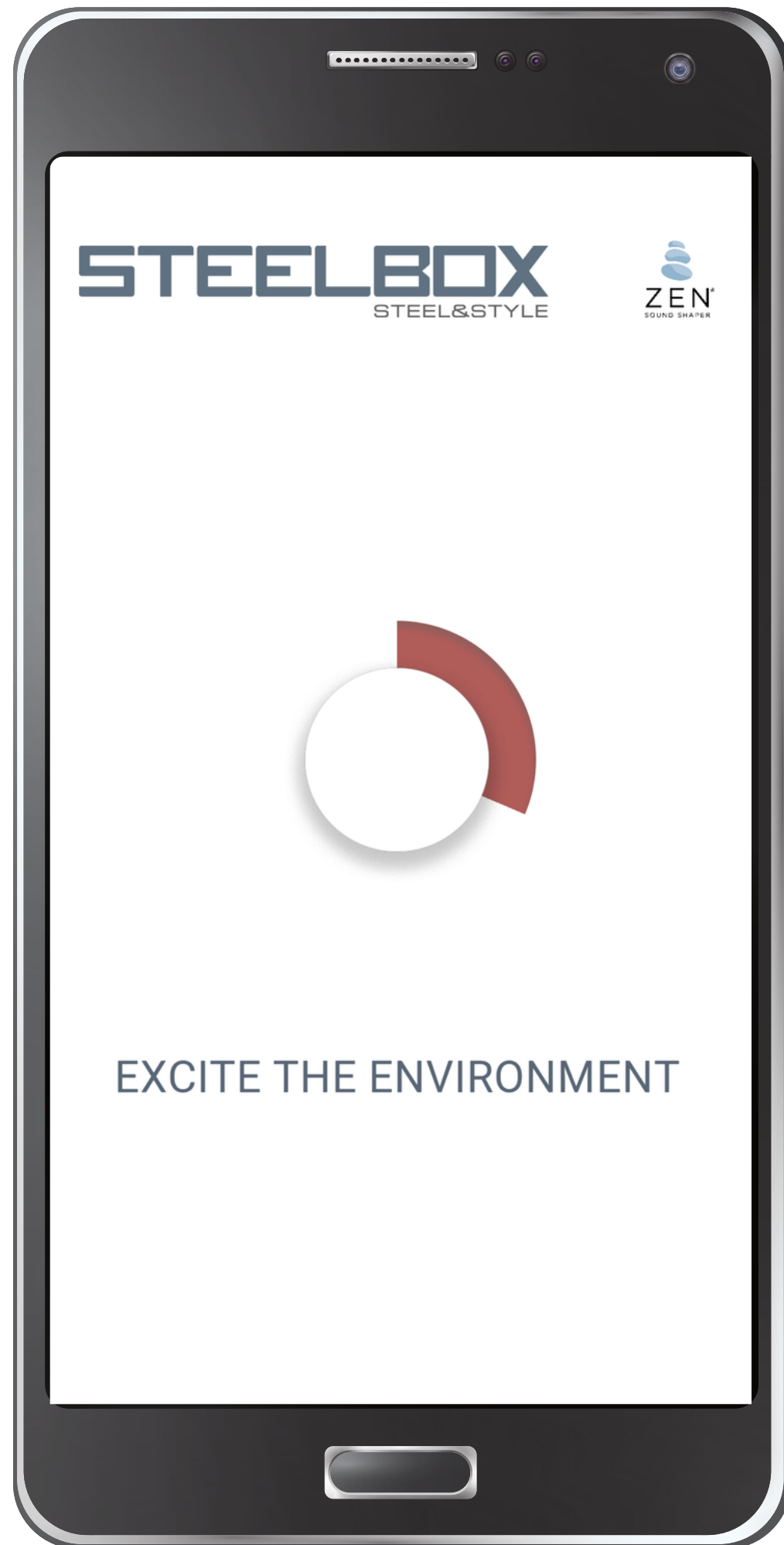
warning:
always use earing
protection before
shooting with the pen



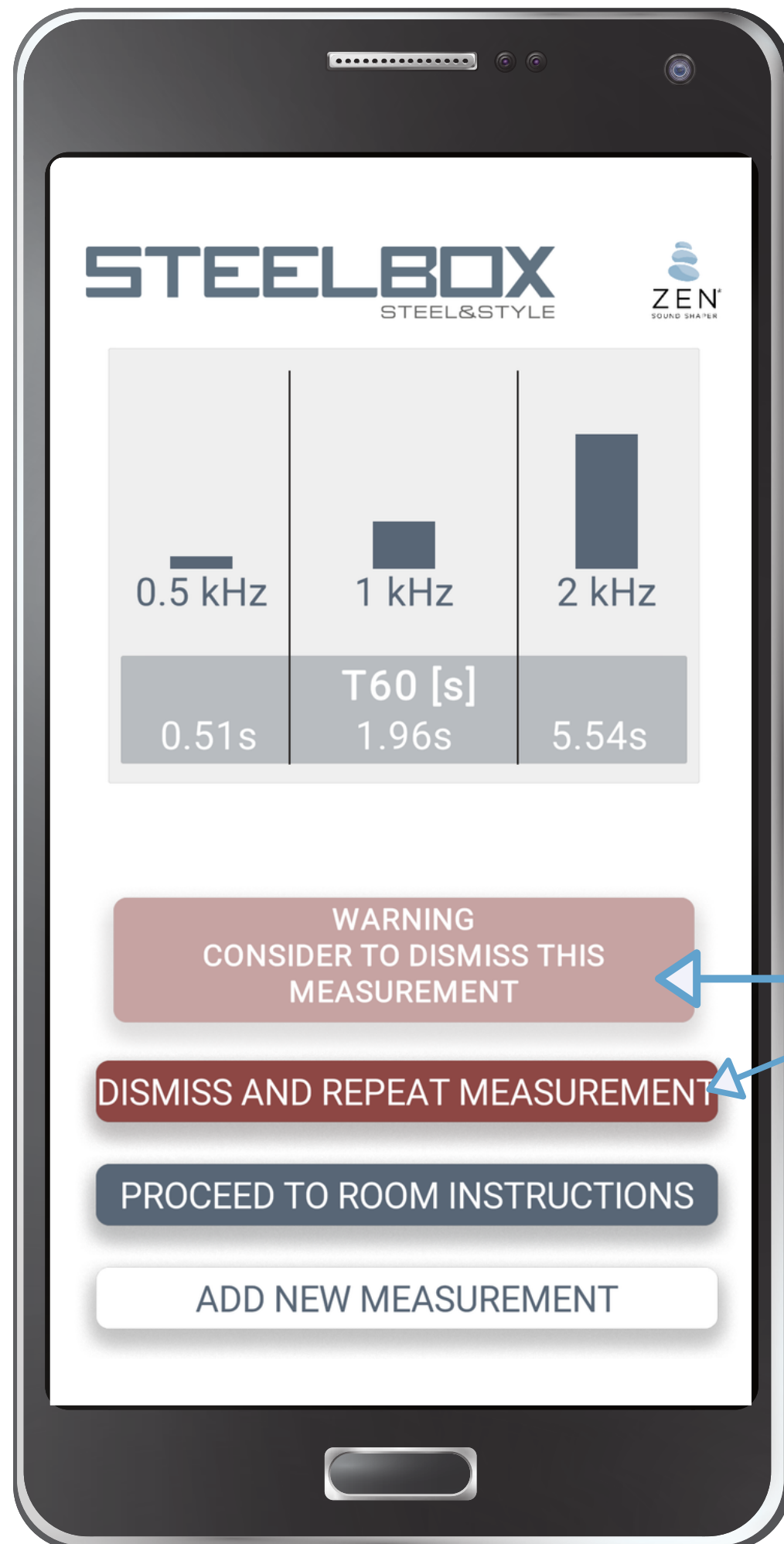
when ready with shooting
pen and ear protection
press start



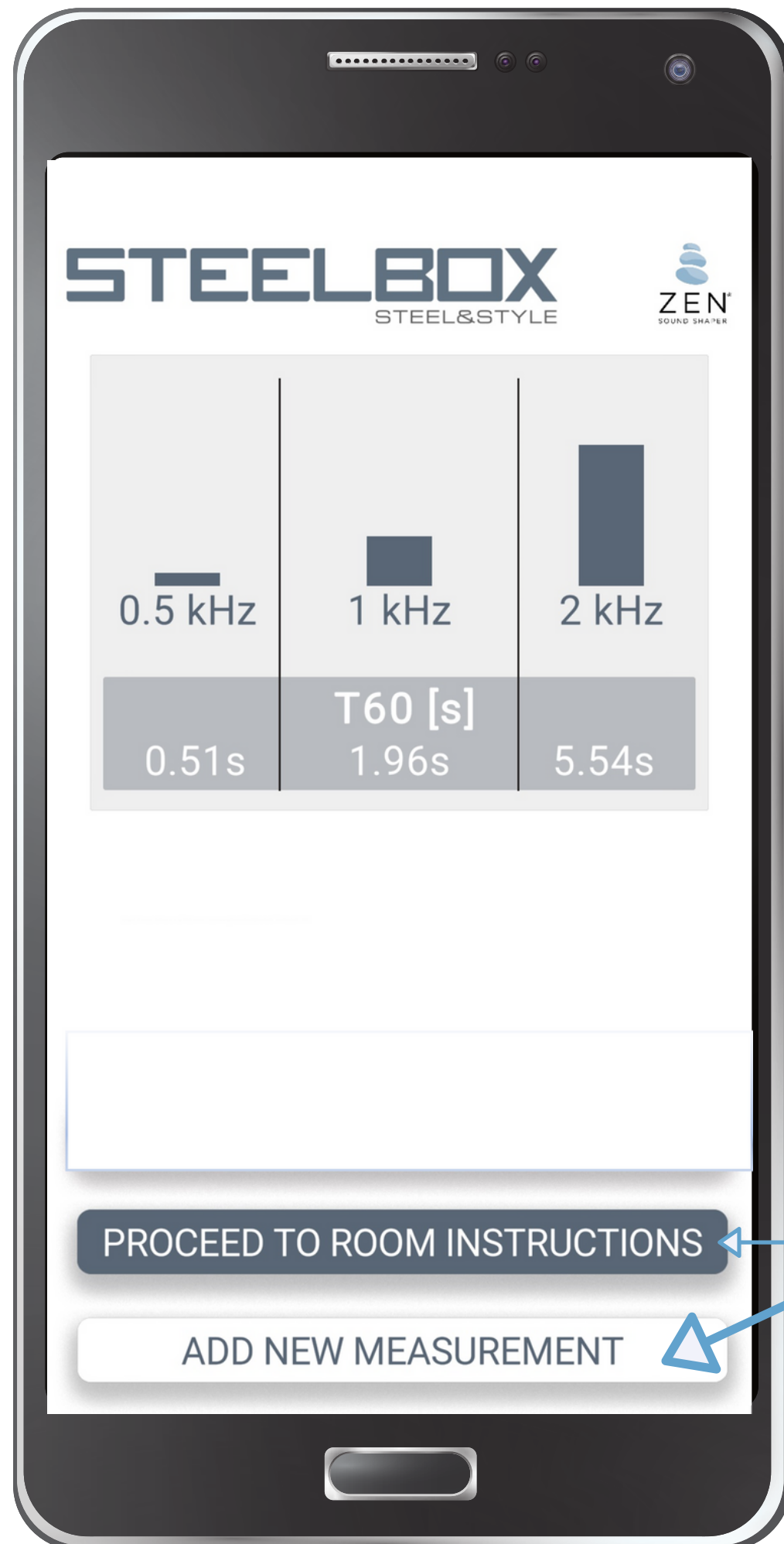
wait 5 seconds in silence
to allow the mic to catch
the room background
noise



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

STEELBOX

STEEL&STYLE


ZEN[®]
SOUND SHAPER

ROOM INSTRUCTIONS

L [mt]

H [mt]

W [mt]

INTENDED USE OF THE ROOM: A ▼

	0.5 kHz	1 kHz	2 kHz
Max	-	-	-
	0.51	1.96	5.54
Min	-	-	-

T60 [s]

HELP

FORWARD

INPUT THE ROOM
DIMENSIONS IN METERS
AND CHOOSE THE INTENDED
USE FROM THE DROPPING
MENU

A - SPOKEN:
-OFFICE
-MEETING ROOMS
-RESTAURANTS, CANTEENS

B - TEACHING:
-CLASSROOMS

C - MUSIC:
-MUSIC CLASSROOM
-CONCERT AND DANCING HALLS

D - SPORT:
-FITNESS CENTERS
-SWIMMING POOLS

OK

add dimensions in meters

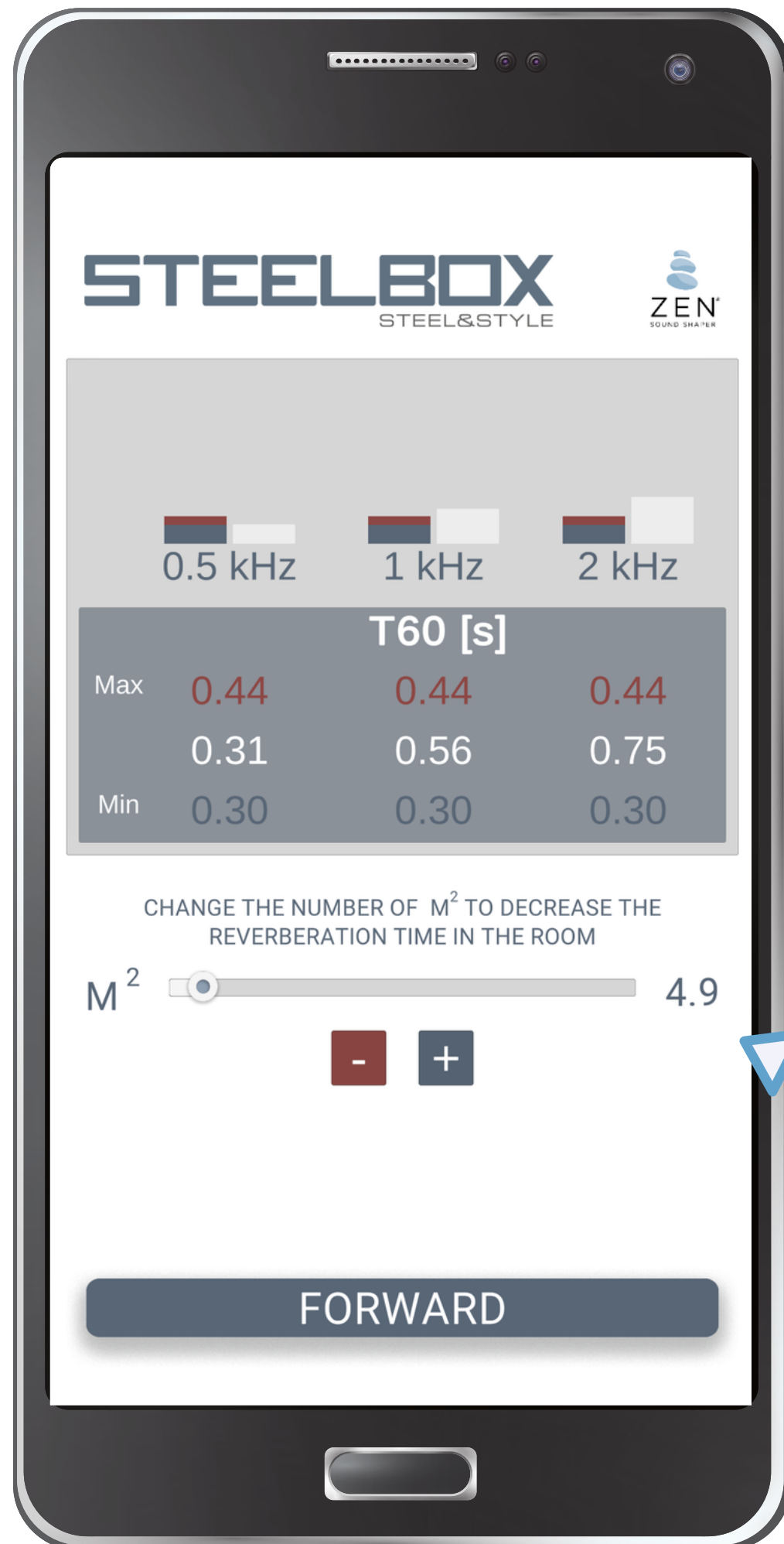
decide the use of the
room

A: office, meeting rooms, restaurant

B: classroom

C: music classroom, concert halls,
dancing halls

D: sport halls, fitness centers,
swimming pools

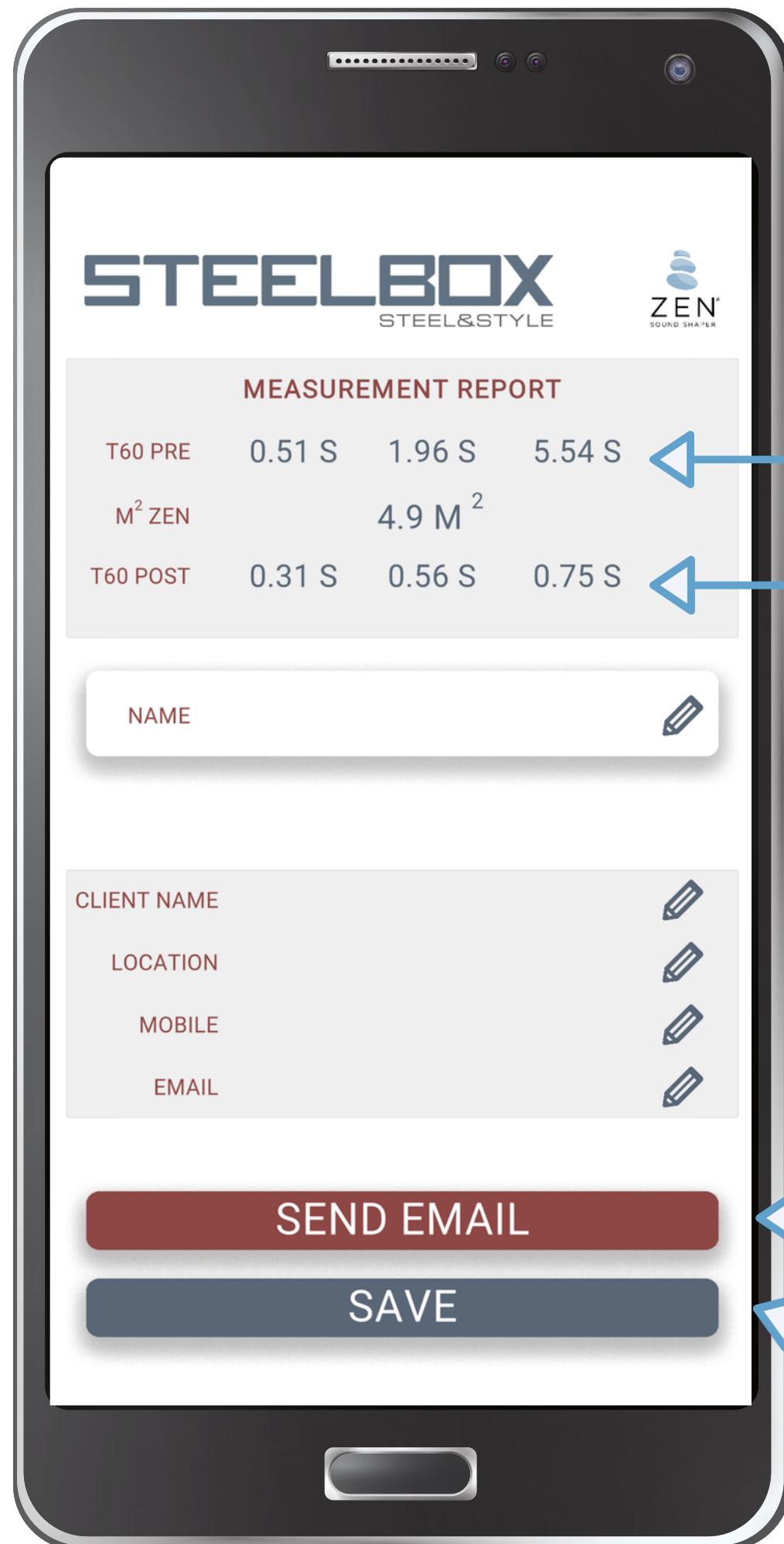


results at different frequencies

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 M² 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 image shows a smartphone screen displaying the 'STEELBOX' app interface. At the top, the app has a header with the 'STEELBOX STEEL&STYLE' logo and a smaller 'ZEN SOUND SHAPER' logo. Below the header is a 'MEASUREMENT REPORT' section containing a table of data. Underneath the table is a 'NAME' input field with a pencil icon. Below that is a section for 'CLIENT NAME', 'LOCATION', 'MOBILE', and 'EMAIL', each with a pencil icon. At the bottom are two buttons: 'SEND EMAIL' and 'SAVE'.

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

NAME

CLIENT NAME

LOCATION

MOBILE

EMAIL

SEND EMAIL

SAVE

T60 pre is the reverberation time of the room

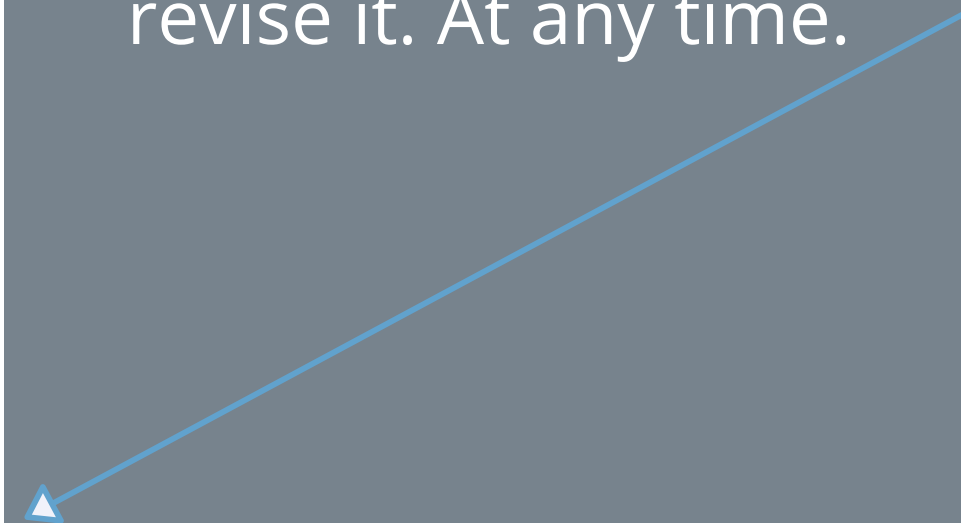
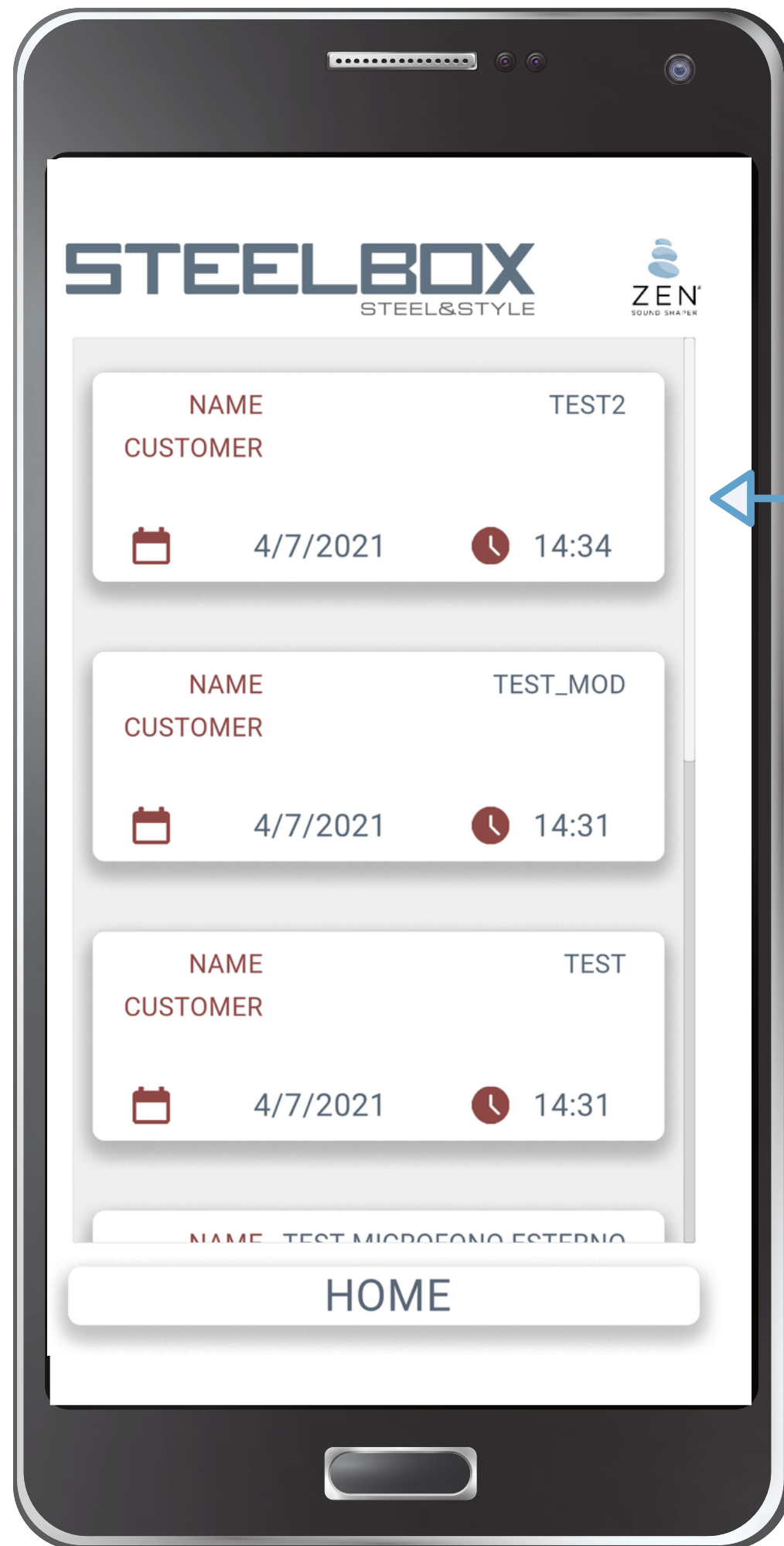
T60 post is the reverberation time of the room after the inclusion of the panels

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

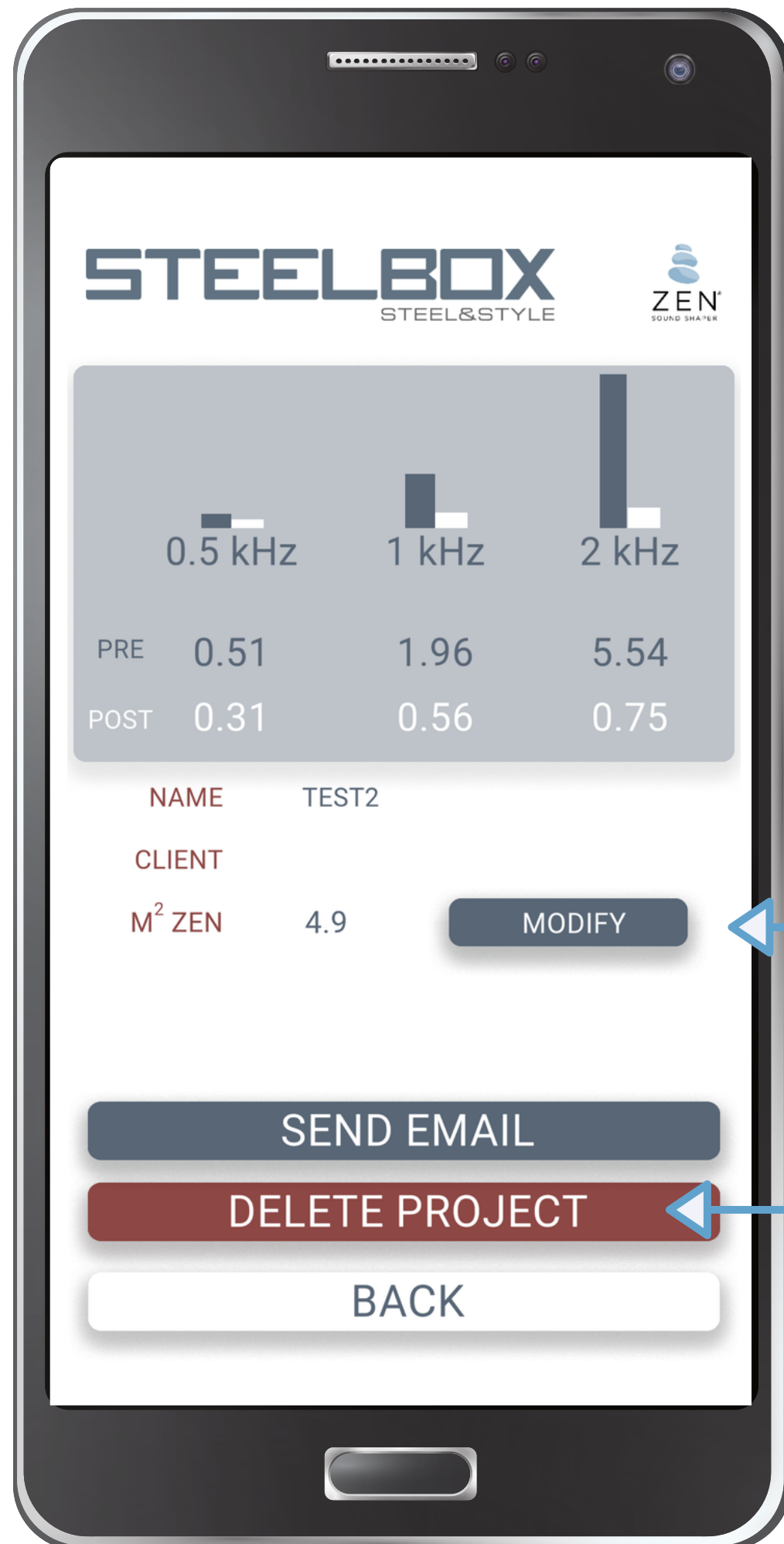
fill this part to keep track of all measurements

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.

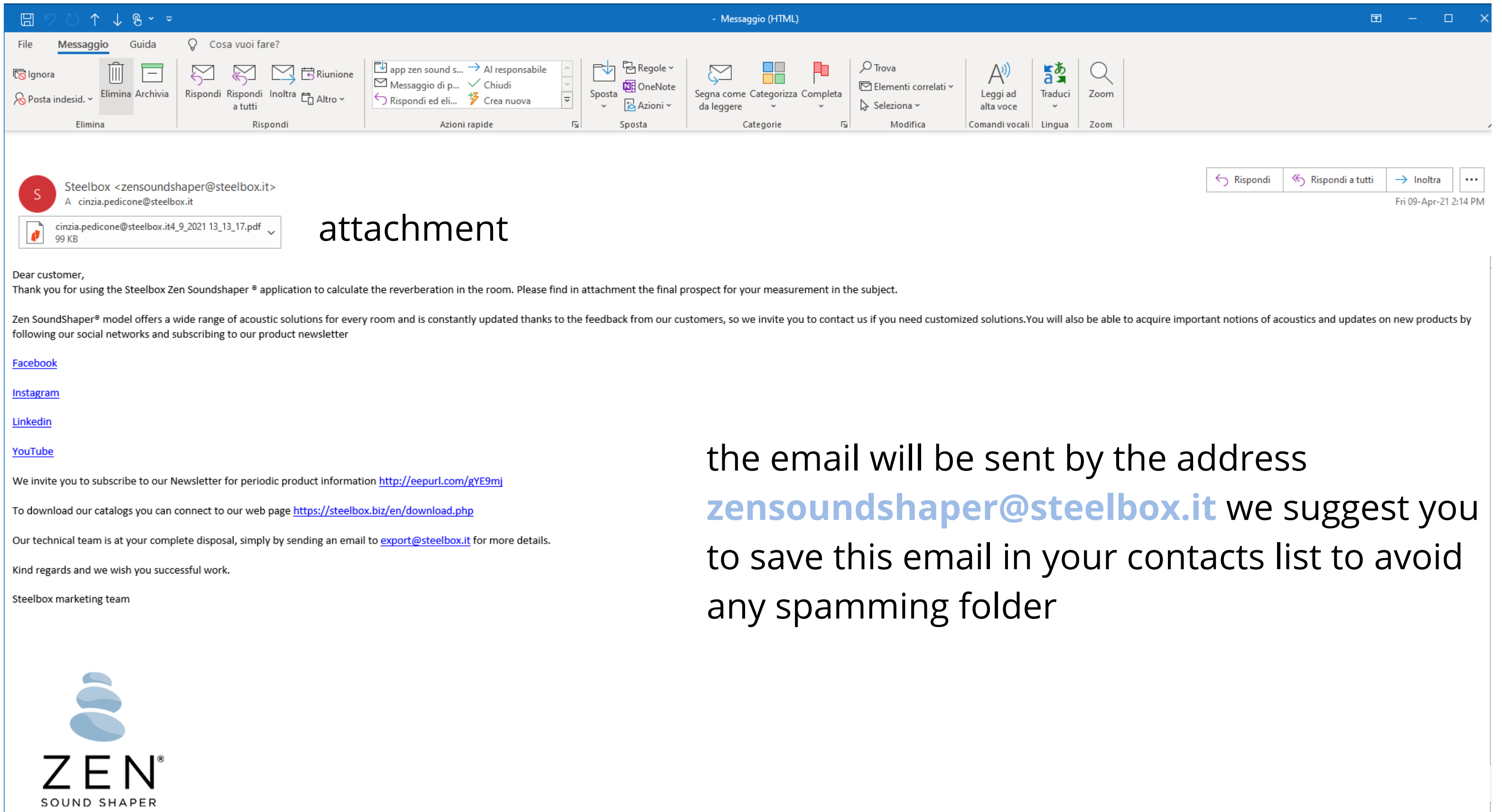


you can modify the quantity of the panels on saved projects according to your client's needs and again send the email with a new graphic.

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 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

CLIENTE **SUSHI CORNER**
OGGETTO **1**

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

MISURAZIONE ACUSTICA

T 60

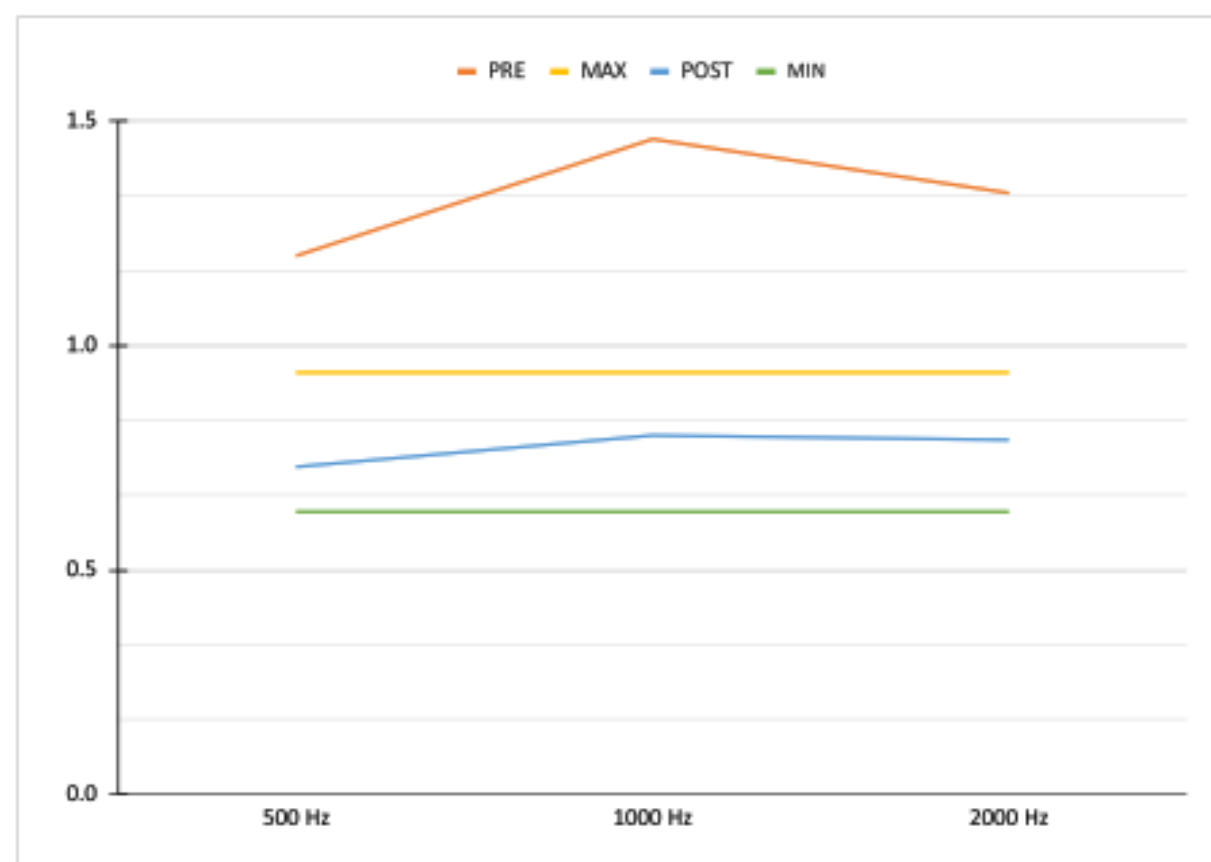
STATO DI FATTO

	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® 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.**

Pannelli acustici bifacciali <i>Two sides acoustic panels</i>	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 <i>One side acoustic panels</i>	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



help and support: marketing@steelbox.it



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SOUND SHAPER

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STEELBOX
STEEL&STYLE