

# wafer™



**PMC**®

On-wall & in-wall loudspeakers in two sizes



The ultimate audio performance with discreet elegance

## wafer-iw™

In-wall loudspeakers



**ATL**™

Advanced Transmission Line

wafer-iw®

A message from Peter Thomas -  
arguably the world's smartest  
loudspeaker designer ...  
and a truly obsessive audiophile.



Our sole aim while designing loudspeakers was to recreate the true essence of an artist's intention, combining an ultimate level in sonic resolution with solid engineering principles.

We believe that the same loudspeaker can be used throughout the entire audio chain - from composer to studio or film stage, and then finally the consumer. Our unswerving passion for getting it right has made this goal possible.

Listen to any of our products and you will hear why our speakers are accepted as the world's studio reference and perfect partner for a system at home.

*Peter Thomas*

Peter Thomas  
Owner & Chief Designer



From television broadcast to major film scoring, music productions of all kinds and film and music mastering, PMC designs represent the very pinnacle of professional studio monitoring. PMC systems are to be found in the finest professional locations, including studios like Teldex and Emil Berliner, producing some of the world's greatest classical recordings for labels like Deutsche Grammophon, DECCA, Philips and Harmonia Mundi, and such respected names in the worlds of television, film and sound, as the BBC, Dolby, Dreamworks, JVC Studios Japan, Metropolis and Universal Music but to name a few.

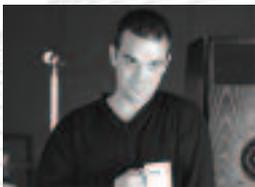
The accumulated technical knowledge and manufacturing brilliance of PMC professional products is incorporated into all domestic product ranges from compacts to in-walls and larger floorstanders. This approach allows both demanding audio- and videophiles a clear window to experience the true feeling and passion of the original recording.

## The Elite

Stevie Wonder Google Coldplay  
 Kraftwerk Peter Gabriel  
 Robbie Williams Brian May  
 Eleanor McEvoy Fox FM  
 Francis Rossi - Status Quo  
 Brian Ferry Robert Fripp  
 Formula 1® Bryston Tori Amos  
 Underworld Crystal Method  
 Tony Bennett Prince Sony  
 Rough Trade BBC Radio BBC TV  
 Capital Radio Universal Music  
 Piccadilly Radio RTL Emil  
 Berliner/Deutsche Grammophon  
 NFL (National Football League)  
 teldex Studios Hospital HDTV  
 Broadcast Studios Digidesign®  
 Siemens EMI Royal Shakespeare  
 Company DECCA The Moving  
 Picture Company Damien Hirst  
 Paul Merton ORF The University  
 of Music - Düsseldorf The Royal  
 School of Music JVC DENON UK  
 The Royal Astronomical Society  
 Warner Music Capitol records  
 Chesky records N.Y. University



Francis Rossi



Robbie Williams



Brian May



Fox FM Advantage - USA BBC London - UK Emil Berliner Studios - Berlin Studio Delphine - France BBC Sounds One OB - UK MSG - Germany

Nautilus Mastering - Italy Metropolis - UK Spirit Studios Orf - Austria Metropolis - UK Mastermix - USA

Swoon Factory - Austria Optimum Mastering - UK Teldex - Berlin The Hospital Studio HDTV Centre - UK



**PMC**

**ATL™**  
Advanced Transmission Line

**Technology**

## Basically speaking

The world's leading professionals rely on the accuracy of PMC's **ATL™** designs everyday to create much of the music and sound you hear. You can rest assured that what you hear from a PMC speaker is identical to the version approved by the artist themselves.

### **What they offer above a standard HiFi speaker**

**Detail** - They are extremely detailed and sound natural - As if the musicians are with you in the room

**Room filling** - The sound they produce covers a massive area, so wherever you sit you still hear everything

**Full, rich sound at any volume** - You can listen at low level and still hear bass - Ideal for low level or late night listening

**Reliability** - all the components are tried and tested in the professional world

**Ease of drive** - They are efficient and therefore can be driven by the vast majority of good quality amplifiers

**Ideal for surround** - They all have an identical tonal balance and can be mixed and matched to create the ultimate surround sound system.

**Easy to position** - They sound superb in a vast array of rooms, large and small

**Feel good** - They are made in England by hand, by nice people who care, and love audio

**Boast** - You can tell your friends you have the same speakers as Robbie Williams, Stevie Wonder, Brian May, Kraftwerk and Coldplay and if they don't believe you tell them to go to [www.pmc-speakers.com](http://www.pmc-speakers.com) and click on key clients

## Technically speaking

PMC's **ATL™** (Advanced Transmission Line) enclosures have taken loudspeaker design to the highest level.

A PMC transmission line design utilises sophisticated cabinet construction, PMC designed drive units and patented absorption materials and techniques.

The benefits are enormous compared to the relatively simple sealed and ported models currently available elsewhere.

The bass driver is placed at one end of a long tunnel (the transmission line), which is heavily damped with absorbent acoustic material. This material is specified to absorb the upper bass and higher frequencies that radiate from the rear of the bass driver. The lowest frequencies, which remain in phase, then emerge from the large vent at the end of the line, which essentially acts as a second driver. One advantage to this approach is that the air pressure loading the main driver is maintained, thus controlling the driver over a wide frequency range, which in turn significantly reduces distortion. A spin-off from the lack of distortion is that the upper bass and midrange detail is not masked by harmonic distortion residing in the very low frequencies. The result is PMC's characteristic transparent midrange and fast, attacking bass notes, all reproduced with outstanding clarity. A further advantage of the transmission line approach is a cabinet that produces a higher volume and greater bass extension than a ported or sealed design of a similar size, even if identical drivers were used. Moreover, as the loading on the main driver is maintained at all volumes, the frequency response also remains consistent regardless of listening level.

Casual late night listening or analytical studio sessions can be conducted without the need for high volumes to achieve maximum bass response. A characteristic that is especially suited to both the home enthusiast and recording professional alike.

**'A huge, rich, room filling sound from a small cabinet'**



DB17 - The smallest **ATL™** in the range

# wafer™

On-wall - available in two sizes



**wafer1™** - White and 42" plasma



available in Black or White



**wafer2™** - White and 42" plasma

# wafer™

On-wall



wafer1™ - On-wall L, C, R

The **Emmy®** award winning British company PMC has brought its **ATL™** technology, found in the world's leading studios to a range of discreet, stylish in-wall and on-wall loudspeakers. The slim-line **wafer™** series are capable of astounding room-filling richness and clarity, ideal to recreate the surround sound cinema experience or an audiophile two channel system.

The two size options allow for perfect visual and sound balance for both modest and more substantial rooms.

## Unique to the wafer™

- Discreet & stylish - a perfect partner for any flat screen
- Natural, dynamic, high resolution sound quality
- Supreme bass performance - Rich deep bass at all volume levels
- Combines flawlessly with the large PMC range
- Whole room coverage - Wide dispersion
- Efficient - Easy to drive
- Perfect horizontal & vertical performance
- High frequency control - (+, FLAT, -)
- Image steering - directs sound toward the listener
- Untainted, clear projected sound using **StealthBaffle™**
- Trouble-free installation - Adjustable mounting hardware



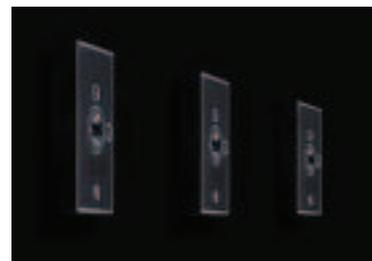
wafer™ - Control



wafer™ - In horizontal mode



wafer™ - Adjustable brackets



wafer2™ - Black L, C, R



# wafer-iw™

In-wall - available in two sizes

In addition, the **wafer-iw**™ feature

- Slim line paintable grille & baffle - blends discreetly
- Ultra low sound leakage - sealed rear cabinet
- Rapid, efficient and convenient installation
- Reference level audio from an in-wall
- Ideal ceiling or wall installation



**wafer1-iw**™ - 5 1/2" Bass Unit



**wafer2-iw**™ - 6 1/2" Bass Unit



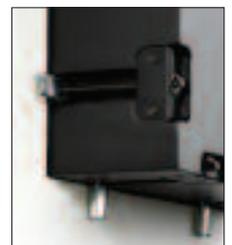
**wafer2-iw**™ - Sealed rear cabinet  
- ultra low sound leakage



**wafer**™ - Control



**wafer**™ - Terminals



**wafer**™ - Spring lugs for 'Easy-Fix'

EU Community Design Registration

**wafer1-iw**™ - 000620331-0001

**wafer2-iw**™ - 000620331-0002

US Design Application Registration

D33443 US

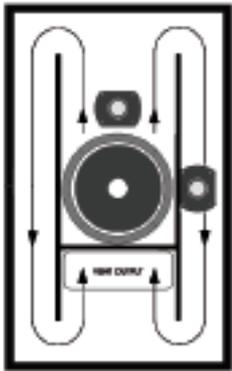
D33554 US

# Why wafer™ ?

The **Emmy**® award winners, PMC introduce two models of on-wall and in-wall monitor loudspeakers, perfectly suited to either studio or home where both discreet design and sonic performance are paramount.

## Natural, dynamic, high-resolution sound quality

The **wafer**™ series perform. They are a true reference monitors and appear in the world's leading studio environments where they are used for judging the quality of both surround movie and music production.



## Supreme bass performance at all levels

**wafer**™ use PMC's **HLin ATL**™ technology making them sound clean, clear and rich at all volume levels. In many cases, their phenomenal bass performance negates the use of a sub.

## Easy to combine

The **wafer**™ series are voiced identically to the entire PMC range; therefore they integrate perfectly, creating a seamless surround combination.



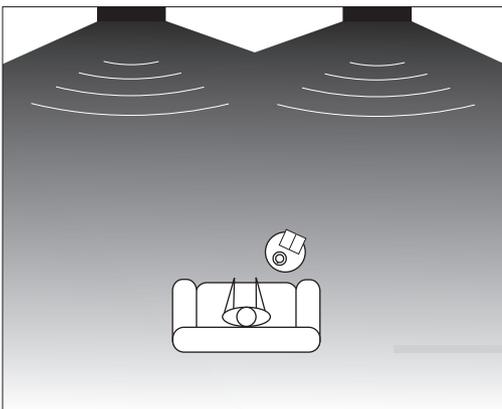
## Efficient

Easy to drive. **wafer**™ combines easily with domestic and CI amplifiers producing excellent results with modest and high end amplification.

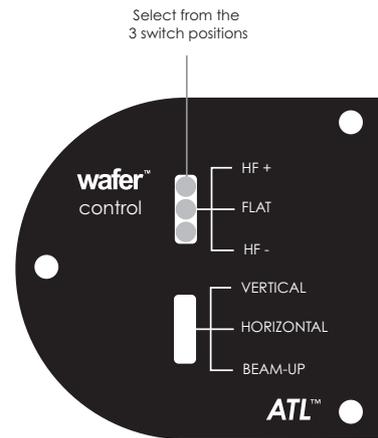
90dB 1W 1m

## Whole room coverage

Their ultra wide dispersion gives a far greater spread of sound across a larger area than a standard loudspeaker, creating a fulfilling experience throughout the room.

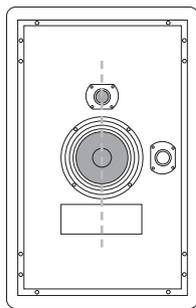


# wafer™ Control allows for perfect room integration

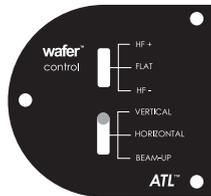


## High frequency compensation

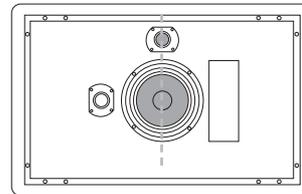
Three positions for tweeter level tailor for bright-reflective or dull-absorbent rooms and the effects of perforated projector screens.



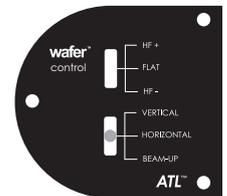
Vertical position



Switch position



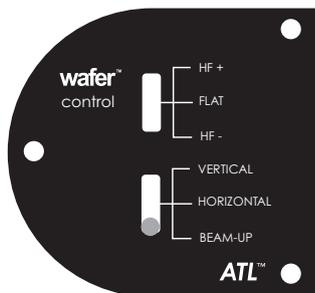
Horizontal position



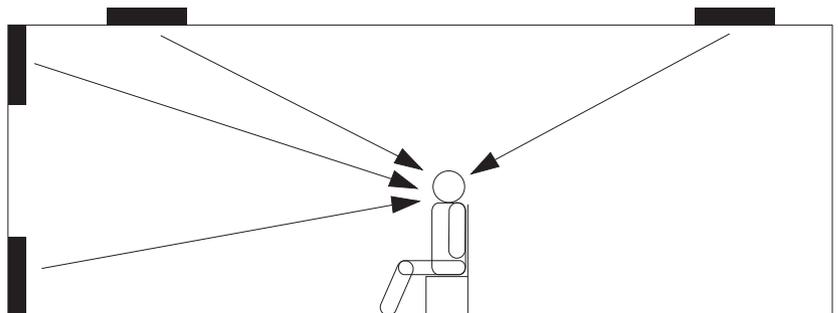
Switch position

## TT-Technology™

Unlike standard loudspeaker designs the **wafer** is not compromised when it is rotated. Using switchable Twin Tweeters its performance is perfect in vertical or horizontal modes, allowing an identical model to be used for both upright and low profile centre channels.



Switch in the 'Beam-Up' position

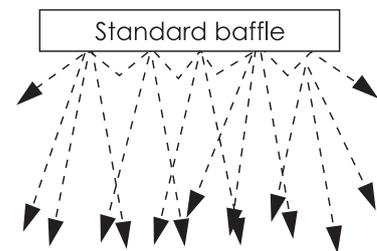


## Image steering

The 'Beam-up' function uses the twin tweeter arrangement to steer the image toward the listening position. This is highly effective when either placed very high or low and especially when the **wafer-iw** is used in-ceiling in a surround sound configuration.

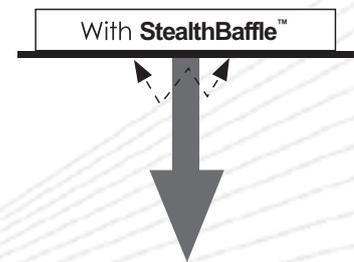
### Quick accurate installation

The **wafer**™ has a well-engineered adjustable wall mounting system with large scope for adjustments in height and level.



### Untainted, clear projected sound using StealthBaffle™

Standard in-wall and on-wall designs are compromised when sound is reflected by the large surface area of their front baffle that surrounds the drive units. This detrimental effect is similar to the change in sound when cupping your hands around your mouth whilst speaking. PMC's acoustic specialists have developed a unique, structured, absorbent surface that prevents unwanted reflected sound waves. The drive units are free to produce concentrated pure, untainted audio directly into the listening space.



### Self Standing wafer™

A pair of the **wafer-tt**™ brushed stainless steel supports converts the **wafer**™ into an elegant table top speaker.



# Specific features of wafer-iw™



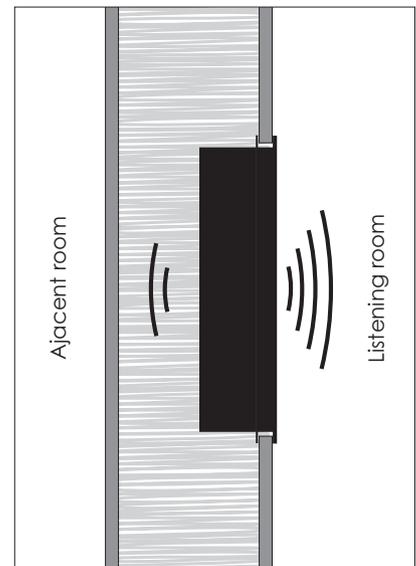
## Quick Fix installation

The multiple mounting lugs spring into position as the cabinet is placed into the wall or ceiling allowing both hands free to finally secure and position the cabinet safely and accurately.



## Paintable grille & bezel

Both wafer thin grille & bezel are paintable to blend in with the desired surrounding colour scheme.



## Ultra low rear sound leakage

**wafer-iw™** cabinets are sealed at the rear, therefore sound leakage to adjoining rooms is kept to an absolute minimum. Having a determined volume and structure of cabinet also means a guarantee of performance, as there is no reliance on the cavity construction or filling, unlike inferior open back designs.

wafer 2™



wafer 2™ with grilles removed and 42" plasma

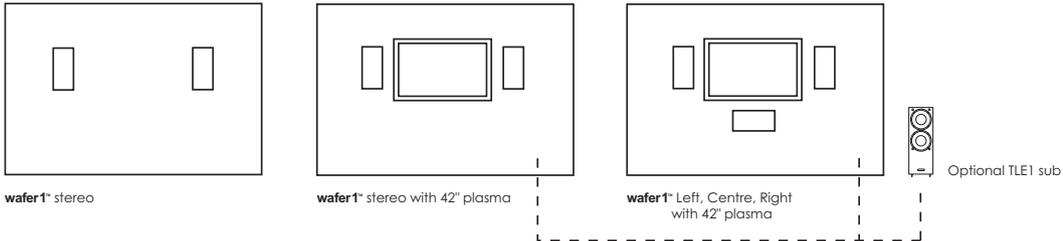
Black



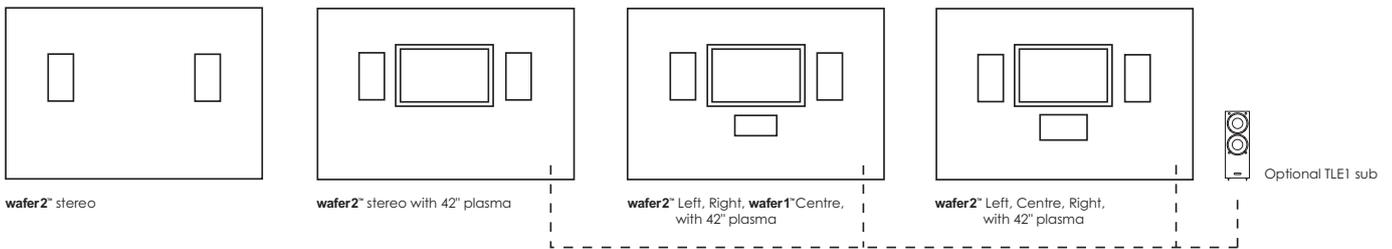
wafer 2™ with grilles

# wafer™ series installation examples

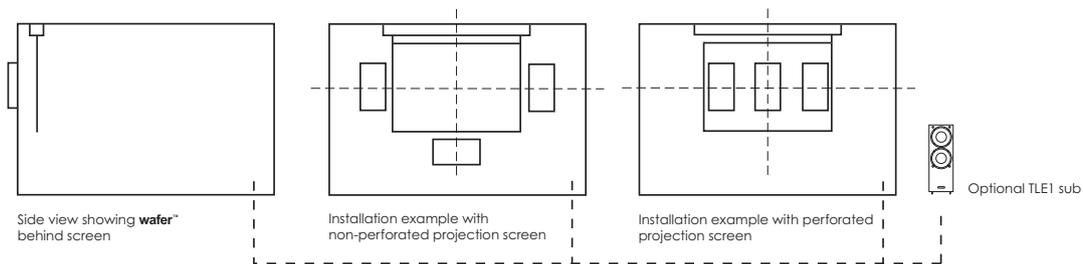
## wafer1™ series installation examples



## wafer2™ series installation examples



## wafer™ series installation examples with projection screens



Mixing and matching any of the wafer™ series and PMC's consumer range creates a supreme and unbeatable surround system.



# HOLLYWOOD

*It is critical for the composers and engineers of multi million dollar blockbusters to get it right'. They do it with speakers from the Emmy® award winners - PMC*

The loudspeakers used by the leading recording professionals have identical characteristics to that of the consumer models and therefore are the only brand that can faithfully bring the original sound to the home.



**wafer**® home theatre

The **wafer**® series is ideal for stereo or all channels of a surround system and has been engineered with an identical tonal balance and dispersion characteristics to all PMC models, thereby any combination will afford seamless integration and a perfect audio picture. The professionally proven TLE1 active subwoofer can also partner any of the range to provide the ultimate in low frequency power and musicality.

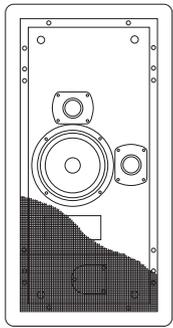
## Blockbusters created using PMC

- Identity
- Independence Day
- Hidalgo
- Atlantis – The Lost Empire
- Signs
- The Emperor's Club
- Unbreakable
- Dreamcatcher
- HitchHikers Guide to the Galaxy
- Hulk
- The Fugitive
- French Kiss
- My Best Friends Wedding
- One Fine Day
- Devil's Advocate
- Dante's Peak
- The Sixth Sense
- Dinosaur
- Elf
- The Passion of the Christ
- Cats & Dogs
- Die Another Day
- The Guru
- Planet of the Apes
- The Tuxedo
- Vertical Limit
- Rollerball
- Finding Nemo
- Chicago
- Freaky Friday
- 2 Fast 2 Furious
- Lara Croft Tomb Raider: The Cradle of Life
- Pirates of the Caribbean 3
- Spider Man 3
- Terminator 3
- Big Fish
- American Beauty
- Love Actually

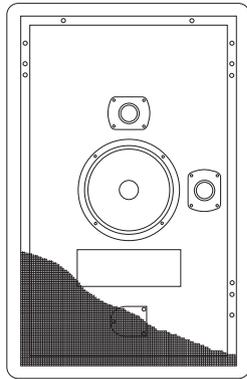
# Suggested Associate Loudspeakers

PMC manufacture a large selection of loudspeakers and sub-woofers to meet a range of budgets and uses, from compact, audiophile designs to large studio monitors.

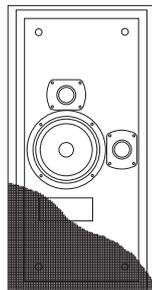
The following products make ideal companions to create an unbeatable surround system or supreme audio throughout the home.



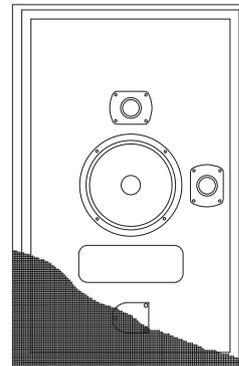
**wafer1-iw™**  
(Two Way in-wall monitor)



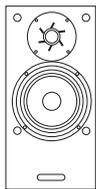
**wafer2-iw™**  
(Larger Two way in-wall monitor)



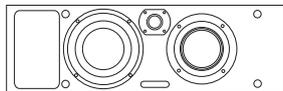
**wafer1™**  
(Two way on-wall monitor)



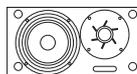
**wafer2™**  
(Larger, Two way on-wall monitor)



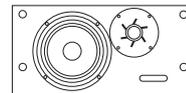
**TB2i**  
(Larger, Two way monitor)



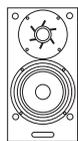
**CB6i**  
(Three way Magnetically screened Horizontal centre)



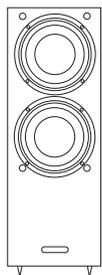
**DB1M-Ci**  
(Magnetically screened Horizontal centre channel)



**TB2M-Ci**  
(Larger, Magnetically screened Horizontal centre)



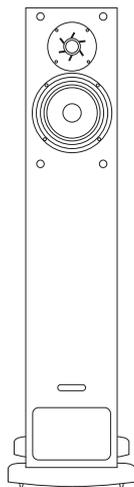
**DB1i**  
(Compact two way monitor)



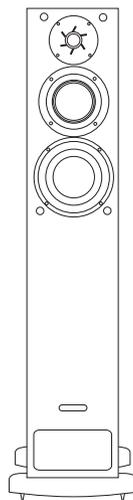
**TLE1**  
(Active Subwoofer)



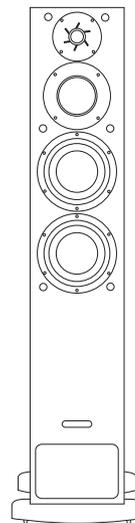
**GB1i**  
(Compact, Two Way, Floorstanding monitor)



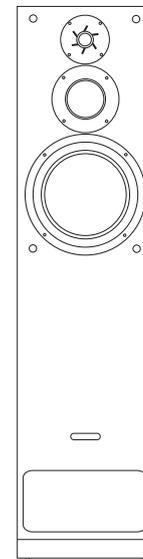
**FB1i**  
(Two Way, Floorstanding monitor)



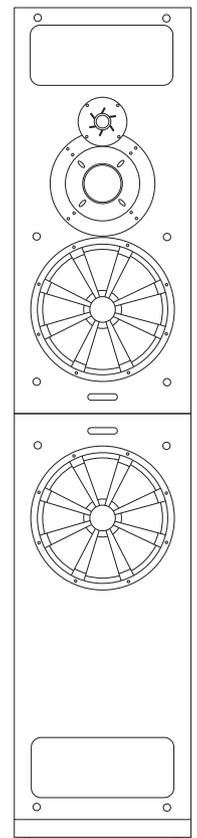
**OB1i**  
(Three Way Floorstanding monitor)



**PB1i**  
(Three Way Floorstanding monitor)



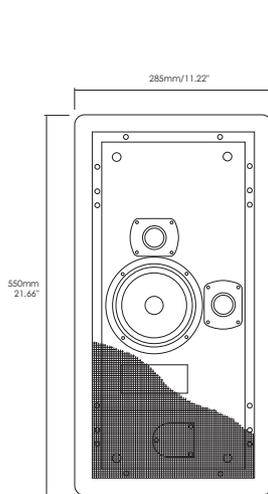
**EB1i**  
(Larger, Three Way Floorstanding monitor)



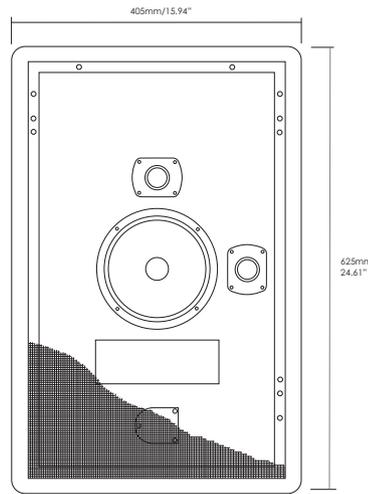
**MB2XBDi**  
(Larger, Three Way Floorstanding monitor)

# wafer-iw™ In-wall/in-ceiling loudspeaker specifications

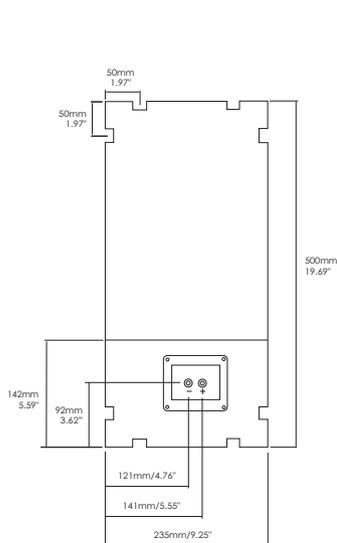
	wafer1-iw™	wafer2-iw™
<b>Freq response</b>	50Hz-25kHz	40Hz-25kHz
<b>Sensitivty</b>	87dB 1w 1m	90dB 1w 1m
<b>Impedance</b>	8 Ohms	8 Ohms
<b>Drive Units</b>	LF 140mm (5.5 inches) HF 2 x 27mm Soft dome	LF 170mm (6.5 inches) HF 2 x 27mm Soft dome
<b>Input connectors</b>	1 pair - Sprung & 4mm sockets	1 pair - Sprung & 4mm sockets
<b>Dimensions</b>	H x W x D	H x W x D
<b>Cabinet</b>	500 x 235 x 100mm (19.7 x 9.3 x 4 inches)	575 x 355 x 100mm (22.6 x 14 x 4 inches)
<b>Cabinet and Bezel</b>	550 x 285 x 107mm (21.65 x 11.22 x 4.21 inches)	625 x 405 x 107mm (24.61 x 15.94 x 4.21 inches)
<b>Cabinet with grille</b>	N/A	N/A
<b>Weight</b>	5.5kg (12.1 lbs)	7.1kg (15.62 lbs)
<b>Grille &amp; frame/bezel</b>	White Satin RAL 9016	White Satin RAL 9016
<b>Cabinet colour</b>	Black Satin RAL 9005	Black Satin RAL 9005



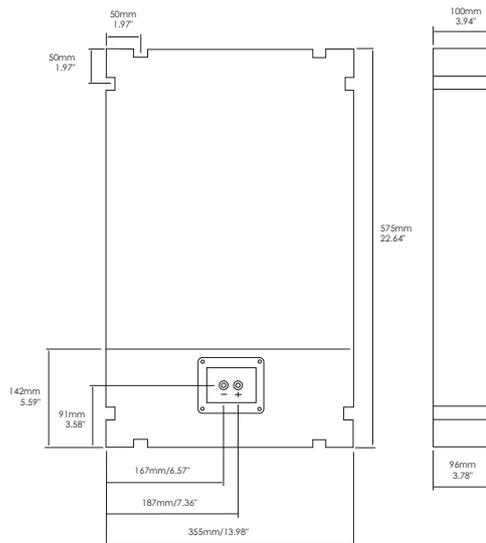
wafer1-iw™  
Front



wafer2-iw™  
Front



wafer1-iw™  
Rear



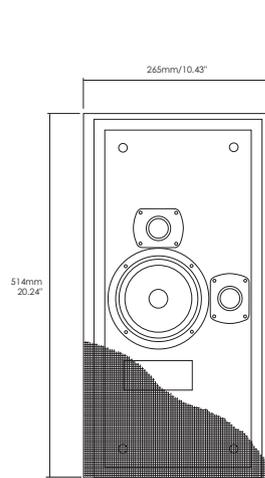
wafer2-iw™  
Rear

EU Community Design Registration  
wafer1-iw™ - 000620331-0001  
wafer2-iw™ - 000620331-0002

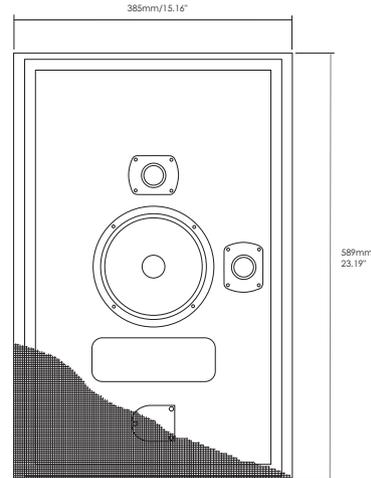
U.S. Design Patent No.  
US D578,509 S

# wafer™ on-wall loudspeaker specifications

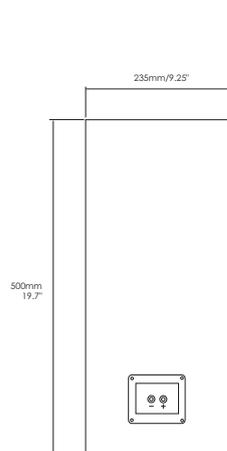
	<b>wafer1™</b>	<b>wafer2™</b>
<b>Freq response</b>	50Hz-25kHz	40Hz-25kHz
<b>Sensitivity</b>	87dB 1w 1m	90dB 1w 1m
<b>Impedance</b>	8 Ohms	8 Ohms
<b>Drive Units</b>	LF 140mm (5½") HF 2 x 27mm Soft dome	LF 170mm (6½") HF 2 x 27mm Soft dome
<b>Input connectors</b>	1 pair 4mm sockets	1 pair 4mm sockets
<b>Dimensions</b>	H x W x D	H x W x D
<b>Cabinet</b>	500 x 235 x 100mm (19.7 x 9.3 x 4 inches)	575 x 355 x 100mm (23.0 x 14 x 4 inches)
<b>Cabinet with grille</b>	514 x 265 x 108mm (20.24 x 10.43 x 4.25 inches)	589 x 385 x 108mm (23.19 x 15.16 x 4.25 inches)
<b>Weight</b>	5kg (11 lbs)	6.6kg (14.5 lbs)
<b>Grille fabric options</b>	White, Black	White, Black
<b>Cabinet colour options</b>	White Satin RAL 9016 Black Satin RAL 9005	White Satin RAL 9016 Black Satin RAL 9005



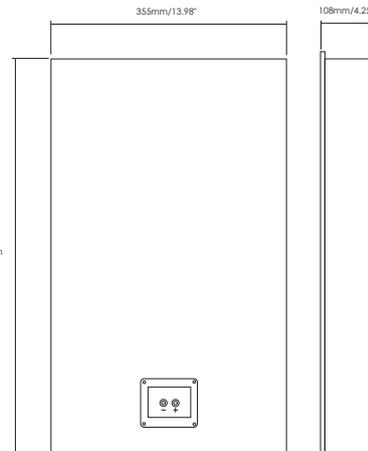
**wafer1™**  
Front with grille



**wafer2™**  
Front with grille

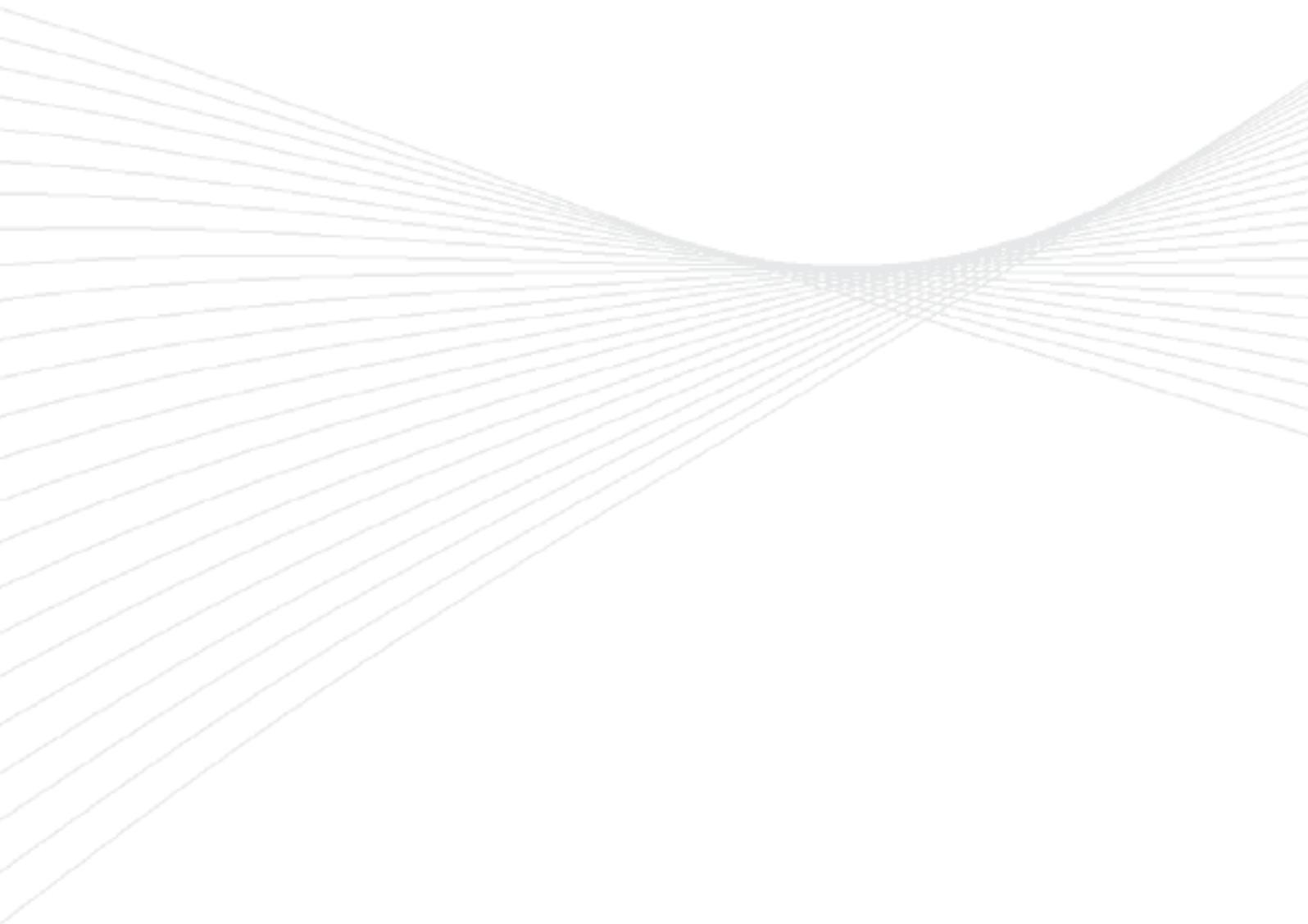


**wafer1™**  
Cabinet rear



**wafer2™**  
Cabinet rear

Subject to change



**PMC**<sup>®</sup>

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