

## CASE STUDIES

## MINDARIE JBL SYNTHESIS HOME THEATRE

## UPDATE A THEATRE ROOM WITHOUT COMPROMISING ON AUDIO PERFORMANCE

## SUMMARY

The client desired a home theatre space where sizable speakers wouldn't encroach on the room, ensuring maximum space used for the screen.

They were unwavering in their commitment to maintaining high quality audio performance.

## PROJECT OBJECTIVES

Meticulously choosing speakers involved identifying a discreet, low profile design that not only met the performance requirements of the space but also allowed for concealment within a 160mm fabric wall constructed at both the front and rear of the room. Given the room's size, four in-wall subwoofers were employed to achieve the necessary sound pressure level. Additionally, two pairs of in-ceiling speakers with angled waveguides were chosen to ensure uniform coverage for all four positions on the couch.

## PROJECT PRODUCT SELECTION

The selected products for the project include JBL's purpose-driven Synthesis product range, designed specifically for rooms of this nature. The High Definition Imaging (HDI™) horn guarantees a crisp and detailed high-end, while the in-wall subwoofers deliver powerful bass despite their compact size.

Equipment Used included:

- \* Projection Screen: 120"
- \* 2 x JBL Synthesis SDA-1700 Amplifier
- \* Speakers: JBL Synthesis SCL Series 5.5.4 Configuration
  - Front: 3 x JBL Synthesis SCL SCL-6
  - Surround: 2 x JBL Synthesis SCL SCL-7
  - Ceiling: 4 x JBL Synthesis SCL SCL-8
- \* Subwoofer: 4 x JBL Synthesis SSW SSW-4
- \* Acoustic Materials: Sonitus Acoustics
- \* Projector Cooling: AC Infinity Multifan S2 Spot Cooler" This was installed in the projector housing to enhance ventilation.



## UNIQUE PROJECT ASPECTS

Since involvement commenced after construction, certain elements in the room, such as the door and window positions, remained unmodifiable. The seating layout had to conform to the placement of existing couches.

All active electronics are situated in a concealed communications rack in another section of the home. The front wall, housing the front speakers, two subwoofers, and screen, only extends into the room by 160mm.

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### KEY PROJECT RESULTS

Although it's just 48 cubic metres in size, the delivery includes a Home Cinema with Dolby Atmos Reference level 5.4.4 channels, featuring a 120-inch screen and a 4K Laser Projector professionally calibrated for an exceptional viewing experience.

### CLIENT TESTIMONIAL

"The installation team displayed friendliness, courtesy, and great consideration throughout the setup of our theatre room. Andrew's professionalism in tailoring a system to fit not only our theatre space but also our furnishings and physical characteristics was truly impressive. His meticulous attention to detail persisted throughout the entire construction process. The final outcome is absolutely fantastic, and both my partner and I are delighted with it. Our sincere thanks to the entire team at West Coast Hi Fi - Joondalup and their subcontractors for delivering such a satisfying result".

Project Design completed by: West Coast HiFi Joondalup  
Installation completed by: Premiere AV Solutions  
Amber Technology: [www.ambertech.com.au](http://www.ambertech.com.au)

