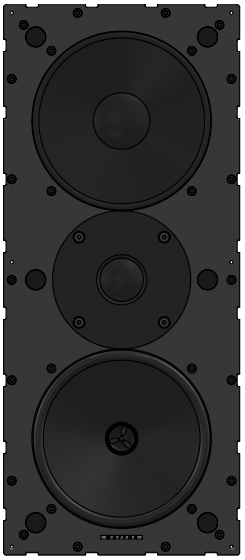
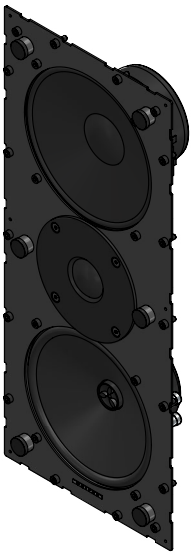
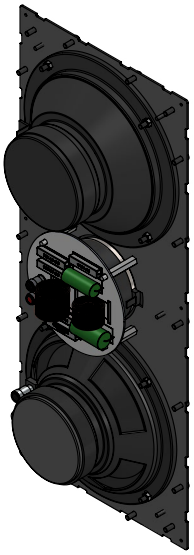
KC416

TECHNICAL DATA SHEET

Flush-Mount







5 YEARS WARRANTY

SCAN OR CLICK TO EXTEND YOUR GARVAN WARRANTY FOR FREE!
3 years included, with the option to add 2 extra years at no additional cost.

OVERVIEW DESCRIPTION – UNIQUE DESCRIPTION PRODUCT

2 Channel Speaker, 1x 2-way 160 mm (6.5”) in-wall and in-ceiling speaker, 150 W max, 1x 160 mm (6.5”) coaxial, 100 W maxwith mounting frame and speaker body in steel, designed to ensure optimum performance and durability, even in difficult environments. This product supports FiloMuro™ in-wall installation, suitable for plasterboard. This speaker integrates a coaxial designed to perform the function of the half central channel. By doing so, with a pair of these speakers to the right and left of the TV, it is possible to eliminate the central channel normally located under the TV of HT 5.1 systems installed in living rooms by splitting it and integrating it into the same side channels made up of this speaker system. The 6.5” (160 mm) woofer features a ferrite magnet assembly, a treated cellulose cone, a rubber surround and a 1” (25 mm) treated silk dome tweeter. The 6.5” (160 mm) coaxial (which acts as a half-center channel) features a ferrite magnet assembly, a treated cellulose cone, a rubber surround and a 0.5” (14 mm) treated silk dome tweeter is placed concentrically to the woofer for very open sound propagation and balanced sound across the frequency range for excellent vocal intelligibility. The connection to the amplifier is via spring terminals that can accommodate cables up to AWG14 gauge. The aesthetic cover is firmly fixed by powerful neodymium magnets. The grill cover can be customized in various materials, including perforated steel that can be painted white or pre-painted according to RAL or NCS codes and even treated with galvanic effects. In addition, it is possible to use fabric covers, available in a wide selection of textures and colors, as shown in the Garvan sample books.

KEY FEATURES

2-Channel System
Combines a 2-way speaker and a coaxial for versatile use.

Home Theater Solution
Integrates left, right, and half-center channels in one design.

High Power Handling
75W + 50W AES / 150W + 100W continuous.

Wide Frequency Range
60 Hz – 20 kHz (main) / 80 Hz – 20 kHz (coaxial).

Enhanced Vocal Clarity
Coaxial driver ensures clear dialogue.

Flush-Mount Installation
Filo-Muro™ system for plasterboard and modular walls.

Customizable Grille
Perforated steel or fabric cover with magnetic fixing.

Robust Construction
Steel frame and high-quality materials.

Easy Connection
Push terminals for cables up to AWG14.

Extended Warranty
3+1+1 years included.

INSTALLATION NAME	Flush-Mount™ Plasterboard
Installation Type	In Wall / In Ceiling Speaker, free air
Surface Compatibility	Suitable for installation in Drywall, wooden panels, modular panel, and similar.
Installation Requirements	Required support thickness: 12,5-25mm
SINGLE LOUDSPEAKER PERFORMANCE	
AES Power Handling	75 W + 50 W
Continuous Power Handling ***	150 W + 100 W
Sensitivity 2,83V / 1m ****	87,5 dB + 89,5 dB
Sensitivity 1W/1m ****	87,5 dB + 89,5 dB
Calculated Maximum SPL @ 1m*	118 dB + 117,5 dB
TRANSDUCER	
Type	2 Way + Coaxial
Nominal size	1x WF 160 mm + TW 25mm / WF 160 mm + TW 14mm
Nominal Impedance	8Ω + 8Ω
Loudspeaker EQ	Not required, Garvan Preset EQ, Filter and protection available
Recommended High-Pass Filter Protection	55 Hz + 60 Hz with 48 dB/Oct. Hight pass Filter
Frequency Response (-3 dB)	(60 Hz - 20 kHz **) + (80 Hz - 20 kHz **)
Frequency Range (-10 dB)	(53 Hz - 20 kHz **) + (60 Hz - 20 kHz)
Nominal Coverage Angle (1 KHz - 4 kHz)	120° + 90°
Nominal Coverage (1 KHz – 10 kHz)	90° + 90°
PHYSICAL	
Frame Material	zinc-plated metal
Speaker support Material	Lacquered or galvanic metal support
Cover	Lacquered or galvanic metal Grille/ Brushed stainlenss steel Grille / Fabric covered frame.
ENVIRONMENTAL FEATURES	
Enviropment of Use	Indoor environments
Operating Temperature Range *****	
environmental protection.	
Connectors	"Push connector, mounted on crossover and on speaker coax. Accepts 18 AWG (0.8 mm2) to 11 AWG (4,17 mm2) size wire.
Maximum Ceiling Thickness	

Product Dimensions	
Ceiling Cutout	
Net Weight, Frame	
Net Weight, Loudspeaker	
Net Weight, Cover	
LOGISTICAL DATA	
Packaging dimensions	
Shipping Weight	
Quantity of products per package	1 to 2 based on logistics optimization per shipment
MAINTENANCE	
Cleaning Method	microfiber cloth
General precautions	do not use harsh cleaning products
INCLUDED ACCESSORIES	
	Jig set
OPTIONAL ACCESSORIES	
Cover installation kit	GAR136
Sound-absorbing material kit for installation	

Cable size/load	**8 ohm**	**4 ohm**	**2 ohm**
2 sq mm.	20m / 65ft.	10m / 32ft	5m / 16ft
2,5 sq mm.	30m / 100ft.	15m / 50ft	7,5m / 25ft
4 sq mm.	60m / 200ft.	30m / 100ft	15m / 50ft

NOTES:

*** Maximum SPL calculated from sensitivity and power handling specifications, using a signal with crest factor 4 (12dB), exclusive of power compression.**

**** With dedicated preset**

***** Power on Continuous Program is defined as 3 dB greater than the Nominal rating.**

****** average SPL measured from 200 Hz to 1,5 kHz**

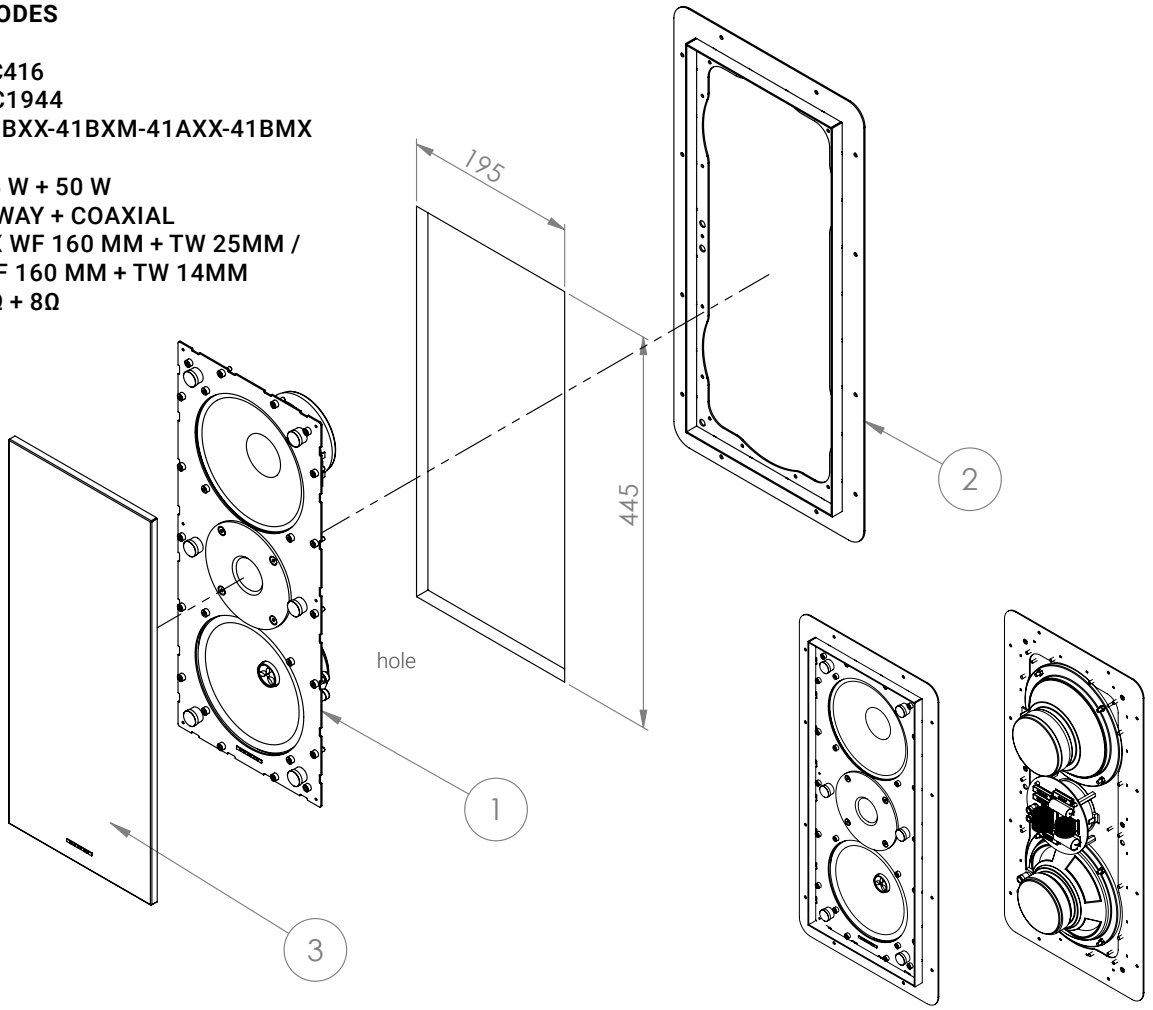
******* With dedicated ignition and maintenance process**

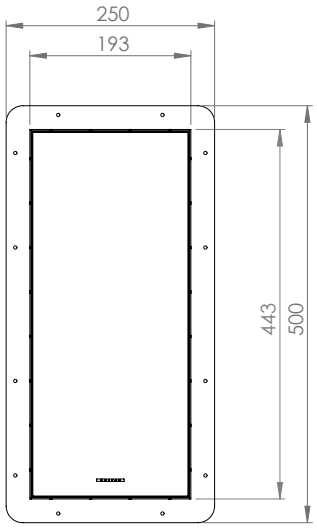
KC416 / CC1944

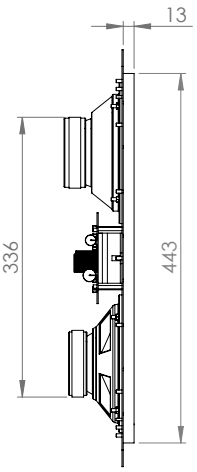
FLUSH-MOUNT™ PLASTERBOARD PRODUCT SHEET

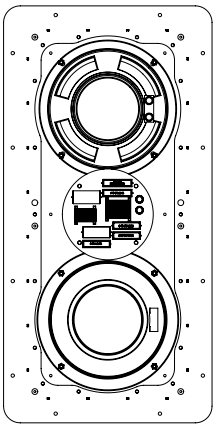
FLUSH-MOUNT™ CODES

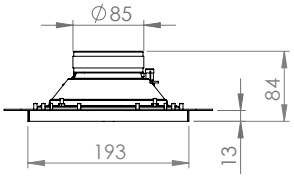
1 Loudspeaker	**KC416**
2 Frame	**CC1944**
3 Front cover	**41BXX-41BXM-41AXX-41BMX**
AES POWER	**75 W + 50 W**
TYPE	**2 WAY + COAXIAL**
NOM. SIZE	**1X WF 160 MM + TW 25MM / WF 160 MM + TW 14MM**
NOM. IMP.	**8Ω + 8Ω**

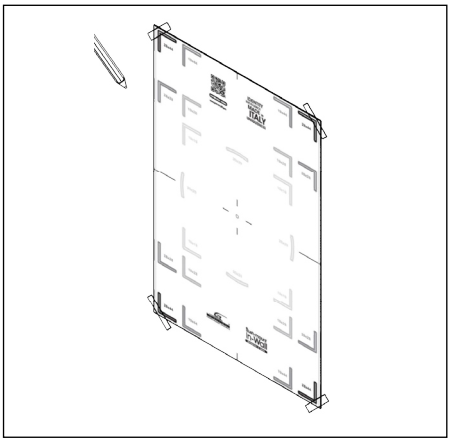












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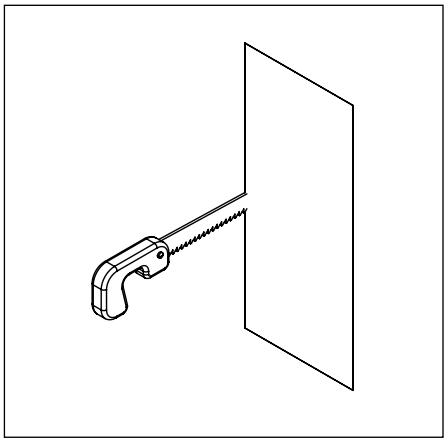

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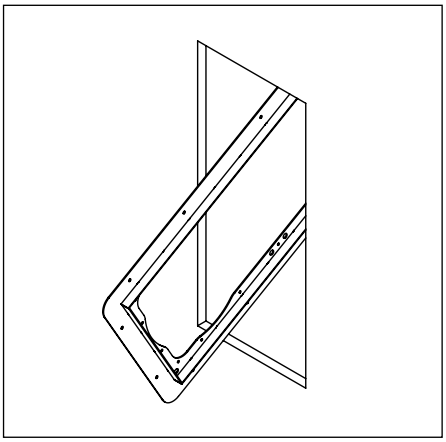

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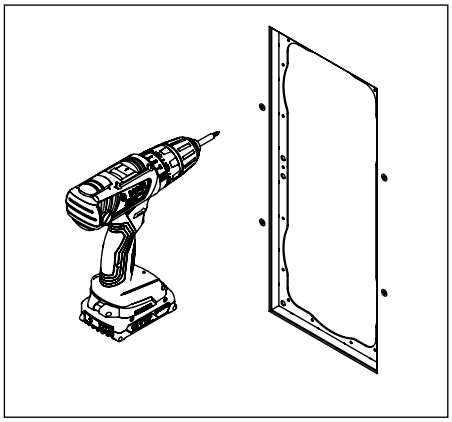

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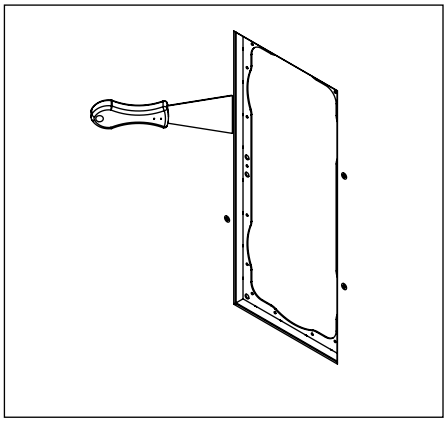

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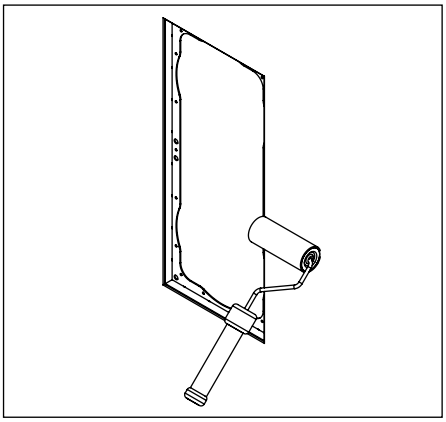

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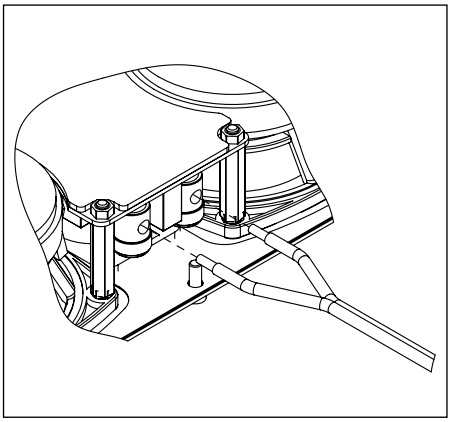

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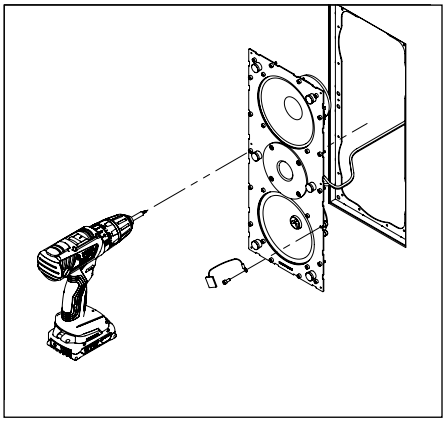

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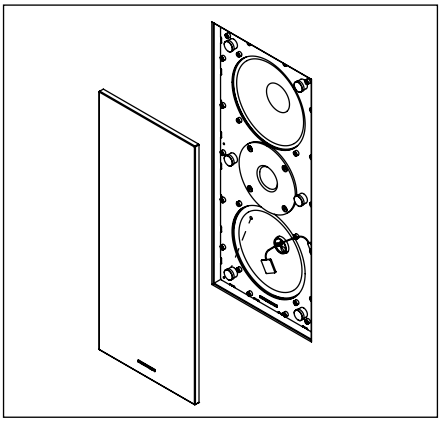

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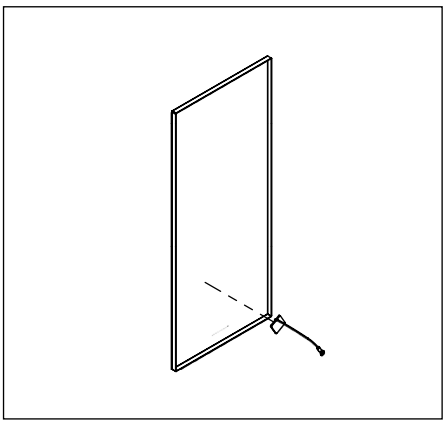

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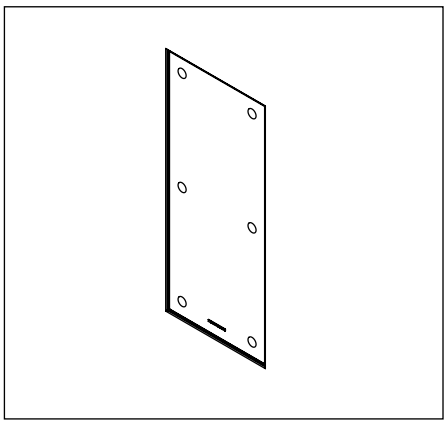

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