

F-2852C

PANEL CONE SPEAKER



The F-2852C ceiling and wall-mounted speaker covers a wide area and can be used for 25, 70 and 100 V line applications. Well-balanced sound can be heard uniformly at any location.

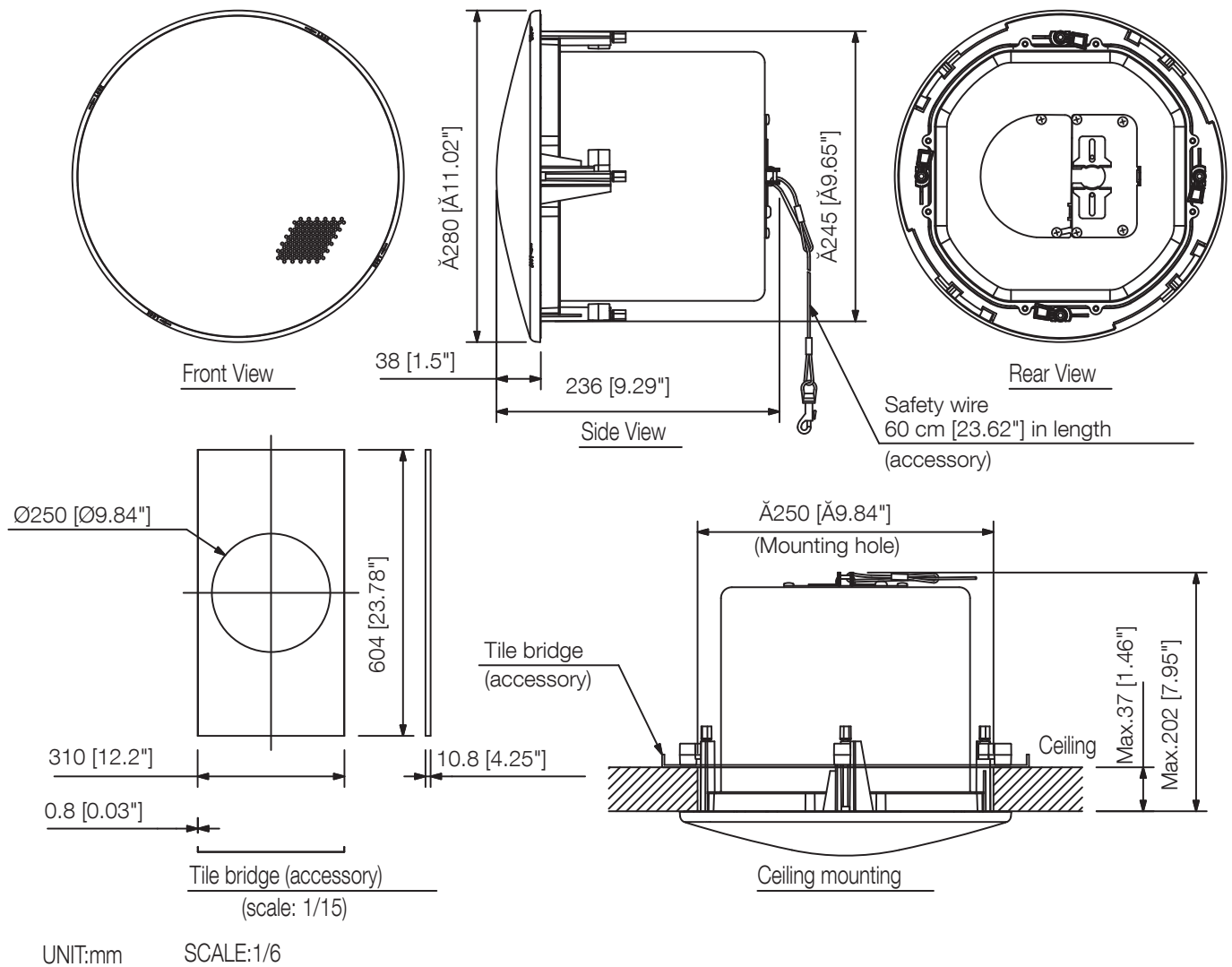
Key features

- Ideal for high ceiling applications
- Ported bass-reflex design
- Co-axial: 6.5" cone driver and dome tweeter
- Special diffuser provides wide off-axis high frequency response
- Metal back-can and safety cable
- Removable terminal block with loop-through terminations
- Overload protection circuitry

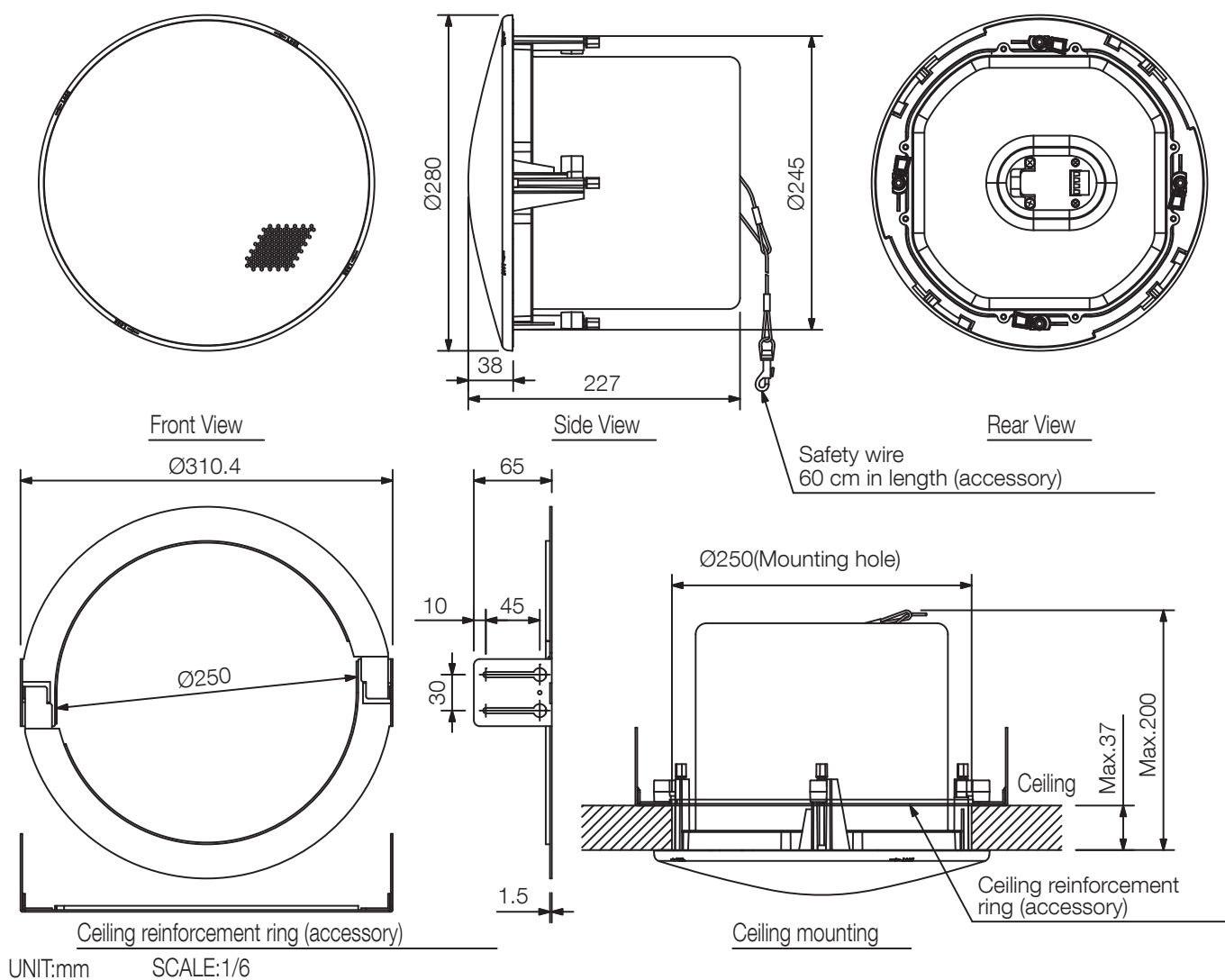
Specifications

Enclosure	Bass reflex type
Rated Input	60 W (High Impedance)
Power Handling	Continuous pink noise: 90 W (8 Ω) Continuous program: 180 W (8 Ω)
Impedance	100 V line: 170 Ω (60 W), 330 Ω (30 W), 670 Ω (15 W), 3.3 kΩ (3 W) 70 V line: 83 Ω (60 W), 170 Ω (30 W), 330 Ω (15 W), 670 Ω (7.5 W), 3.3 kΩ (1.5 W) 25 V line: 83 Ω (7.5 W), 170 Ω (3.7 W), 330 Ω (1.9 W), 670 Ω (0.9 W), 3.3 kΩ (0.2 W) 8 Ω
Sensitivity	91 dB (1 W, 1 m)
Frequency Response	60 Hz - 20 kHz (-10 dB), 45 Hz - 20 kHz (-20 dB) at installation in 1/2 free sound field (Measured by installing the unit in the center of a ceiling.)
Speaker Component	High frequency: Dome-type, Low frequency: 16 cm cone-type
Mounting Hole	Ø250 mm (Maximum ceiling thickness: 37 mm)
Input Terminal	Removable locking connector with screw-down terminals (2 input terminals and 2 bridge terminals)
Cable Requirements	Solid copper wire: Ø0.5 - Ø1.6 mm (equivalent to AWG No. 24 - 14) Stranded copper wire: 0.2 - 2.5 mm ² (equivalent to AWG No. 24 - 14)
Finish	Enclosure: Steel plate, plating Baffle: Fire-resistant ABS resin (resin material grade: UL-94 V-0), black Rim: Fire-resistant ABS resin (resin material grade: UL-94 V-0), white, paint Punched net: Steel plate, white, paint
Dimensions	Ø280 x 227 (D) mm
Weight	5.1 kg (including mounting accessories)
Included Accessories	Panel1, Ceiling reinforcement ring1, Safety wire1, Paper pattern ...1
Optional Accessories	Anchor hanging bracket: HY-AH1, Tile bar bridge: HY-TB1

Dimensions



Dimensions



A&E specifications

The overhead music/paging speaker shall be a two-way bass-reflex enclosure type suitable for ceiling mounting. The low frequency component shall be a 6.3" (16 cm) cone-type speaker and the high frequency component shall be a 1" (2.5 cm) dome tweeter. The speaker assembly shall be suitable for use in air handling spaces.

The speaker shall be compatible with low and high impedance speaker systems and include a built-in 25/70.7/100 V matching transformer. The front baffle shall have screwdriver-adjustable tap settings of: 60 W, 30 W, 15 W, 7.5 W, and 1.5 W for 70.7 V operation; 7.5 W, 3.7 W, 1.9 W, 0.9 W, and 0.2 W for 25 V operation; and 60 W, 30 W, 15 W, and 3 W for 100 V operation; plus settings for 16 ohm and direct 8 ohm operation. Built-in overload protection circuitry shall protect the speaker against excessive input power.

The output sound pressure level at a distance of 1 m with 1 W of input power applied shall be 91 dB SPL. The rated power handling (Continuous Program) shall be 180 W at 8 ohms, 120 W at 16 ohms, and 60 W when used with a 70.7, or 100 V line system. The speaker shall have a frequency response range from 60 Hz to 20k Hz. Speaker directivity shall be less than $Q = 12$ for all ISO 1/3-octave bands up to 4k Hz when measured in a half-space anechoic environment using 1/3-octave band-limited pink noise. The speaker baffle shall be made of fire-resistant ABS resin. The rear enclosure shall be made from a single piece of steel plate. The grille shall be white painted steel plate with fire-resistant ABS resin trim and shall be field re-paintable. Instructions for re-painting the grille shall be included in the speaker package. The speaker shall be equipped with a removable locking connector having two screw-down input terminals and two bridging screw-down pass-through terminals.

The speaker shall be no greater than 11.1" (280 mm) outside diameter shall require a circular cutout no greater than 10" (250 mm), and shall be capable of mounting in surfaces up to 1.46" (37 mm) thick. The rear enclosure shall extend no more than 7.9" (200 mm) above the mounting plane. The speaker shall weigh no more than 11.24 lbs (5.1 kg).

The overhead music/paging speaker shall be TOA model F-2852C.

The tile bridge for drop ceiling installation shall be TOA model HY-TB1.

The anchor hanging bracket shall be TOA model HY-AH1.