



IMPACT CASES INC.
MARKHAM, ONTARIO · EST. 1979

TARGET™ PRODUCT LINE
MILITARY & DEFENSE GRADE



— TARGET CASE® · EMI SHIELDING

EMI / RFI SHIELDED

Rackmount protection built for electromagnetic isolation. A continuous, low-impedance conductive path, engineered and verified around the entire enclosure.

OVERVIEW

For applications where sensitive electronics can't afford interference, a standard enclosure isn't enough. Every case we build for EMI-sensitive applications goes through a **dedicated shielding process**, engineered and verified at each stage.

BUILT FOR

- Defense communications
- Broadcast signal chains
- Mission-critical instrumentation

PLATFORM

Target™ Seam-Welded

SEALING THE ENCLOSURE

// 01 RIVNUT-MOUNTED HARDWARE

Latching hardware is installed using a Rivnut assembly process instead of standard mounting rivets, creating a tighter, more reliable seal at every fastening point.

// 03 CUSTOM EMI GASKETING

In place of a standard weather gasket, we fit purpose-made EMI gasket cord. Cases with a Dual Channel Valance design can run a doubled-up layer for even greater attenuation.

// 02 REINFORCED LATCHING

Extra latching points are added so the lid presses down evenly against the body across its full perimeter. Uneven pressure is one of the most common causes of EMI seal failure.

// 04 WELDED, LEAK-CHECKED SHELLS

Every rack enclosure is fully welded and inspected for pinholes or leak paths before coating is applied, confirming the shell is sealed in every critical area.

RFI INTEGRITY

The level of shielding we have offered in the past is no less than 40dB at frequencies from 8 GHz to 12 GHz. Other applications we have designed and built for achieved 60dB from 150kHz to 18GHz.

40 dB

8 GHz TO 12 GHz
SHIELDING OFFERED

60 dB

150 KHZ TO 18 GHz
MIN. SHIELDING REQUIREMENT

SHIELDING PROCESS, CONTINUED

THE CONDUCTIVE PATH

// 05 CONDUCTIVE ALODINE COATING

Internal surfaces are treated with Alodine, a clear or gold chromate conversion coating in hexavalent or trivalent chromium, before powder coating. Powder coat is an electrical insulator, so this keeps the interior conductive.

// 07 SHIELDED HARDWARE, NOT JUST PANELS

Handle backing plates and delta tie-down plates are Alodine treated and gasketed on the interior face, closing off leak points at hardware penetrations. Multiple configurations available.

// 06 PRECISION SEAM MASKING

The mating surface between lid and body is masked off before powder coating so that, once latched closed, metal meets metal, maintaining a continuous conductive seal exactly where it matters most.

// 08 CONDUCTIVE RACK FRAME

The rack frame and all internal mounting brackets are Alodine coated as well, so shielding integrity extends through the entire internal structure, not just the outer shell.



EMI GASKETED ACCESS PANEL



SHIELDED RACKMOUNT, BLACK FINISH

ELECTROMAGNETIC ISOLATION, ENGINEERED IN

Send us your shielding requirement and frequency range, we'll spec the right EMI/RFI build.

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