legrand EN2080 Core Line Enclosure

legrand EN2080 Core Line Enclosure Instruction Manual

Contents

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Product Information

Specifications

- Models: EN2080, EN2800, EN2820, EN2850, EN2860, EN2880, EN4200, EN4220, EN4250, EN4260, EN4280
- Sizes: 14″ (35.6cm), 20″ (50.8cm), 28″ (71.1cm), 42″ (106.7cm)

Product Usage Instructions

Installation Instructions
Please read these instructions completely before you begin.

Important Safety Instructions
When using your enclosure and installed low voltage products such as telephone equipment, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons.

1. Running Power to the Enclosure: AC power needs to be run to the enclosure when installing any module that requires AC or DC power to operate. A low-voltage UL listed, Class 2, plug-in power supply is required.

Screw-on Cover Installation

NOTE: Only use Legrand covers with the enclosure. Covers must be matched to the proper size enclosure.

1. Partially install the top two (2) screws in the enclosure.
2. Hang the screw-on cover on the two partially installed screws using the keyhole openings in the cover.

Components

- Lock Washer – Rondelle de blocage – Arandela de seguridad
- Screw – Vis – Tornillo
- Cover – Couvercle – Cubierta

FAQ (Frequently Asked Questions):

- **Q: Can I use covers from other brands with the enclosure?**

  A: No, only use Legrand covers that are specifically designed for the enclosure to ensure proper fit and function.
- **Q: What type of power supply is required for the enclosure?**

  A: A low-voltage UL listed, Class 2, plug-in power supply is required when running power to the enclosure.

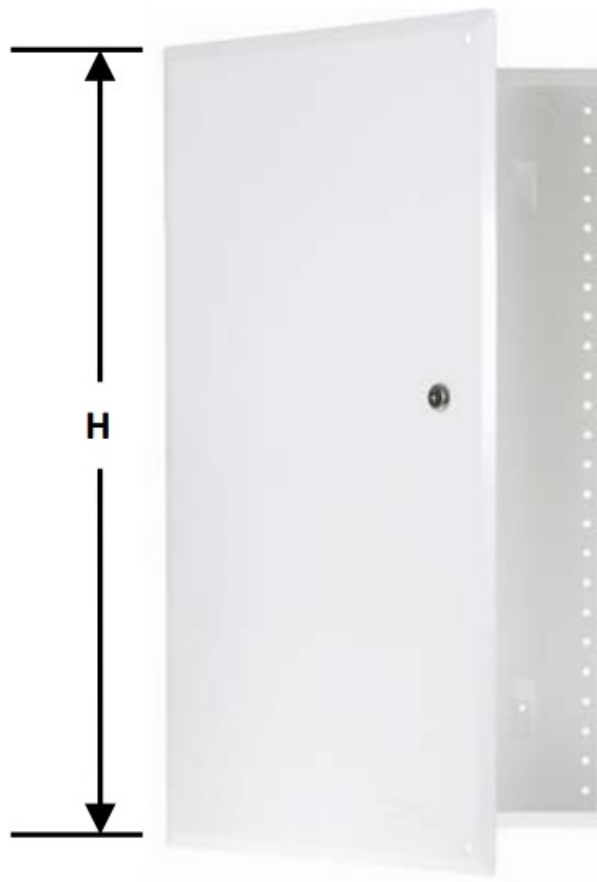**Core Line Enclosures**
Installation Instructions

Doc. #0366 11/14 Rev E

Catalog Number(s)
Country of Origin: Made in USA

EN1400, EN1420, EN1450, EN1460, EN1480, EN2000, EN2020, EN2050, EN2060, EN2080, EN2800, EN2820, EN2850, EN2860, EN2880, EN4200, EN4220, EN4250, EN4260, EN4280

H	14" (35.6cm)	20" (50.8cm)	28" (71.1cm)	42" (106.7cm)
With screw-on cover				
#'s	**EN1400**	**EN2000**	**EN2800**	**EN4200**
With hinged door				
#'s	**EN1450**	**EN2050**	**EN2850**	**EN4250**
No cover, no knockouts				
#'s	**EN1480**	**EN2080**	**EN2880**	**EN4280**
Screw-on cover				
#'s	**EN1420**	**EN2020**	**EN2820**	**EN4220**
Hinged door				
#'s	**EN1460**	**EN2060**	**EN2860**	**EN4260**

IMPORTANT SAFETY INSTRUCTIONS

When using your enclosure and installed low voltage products such as telephone equipment, basic precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
4. Never push objects of any kind in to this product through cabinet slots as they may touch dangerous voltages.
5. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
6. Separation must be maintained between power-limited, non-power-limited, telco, and coax circuits, as well as between any current-carrying and dead-metal parts, by a minimum spacing of 1/4" inch.
7. Use caution when installing or modifying telephone lines, and never install them during a lightning storm.
8. Never install telephone jacks in wet locations unless they are specifically designed for such installations.
9. Receptacle box employed must be UL Listed and appropriate per the enclosure installation, i.e. flush-mount vs. surface mount.
10. Enclosure covers must be installed prior to the application of energized services.
11. Low-voltage modules must be supplied power via the use of a UL Listed, Class 2 plug-in power supply.
12. Unused cable entry holes require a knock-out seal to reduce the risk of electric shock, installed prior to the application of energized services.
13. Any unused 110VAC receptacles must be covered.

NOTE: These enclosures are only compatible with UL Listed Household Fire and Burglary Alarm System Unit

sub-assemblies as indicated in the control unit's installation instructions.

Enclosure Physical Installation
Locate enclosure centrally inside the house in a low humidity, climate controlled (0°C / 32°F – 50°C / 122°F), non-flooding area.
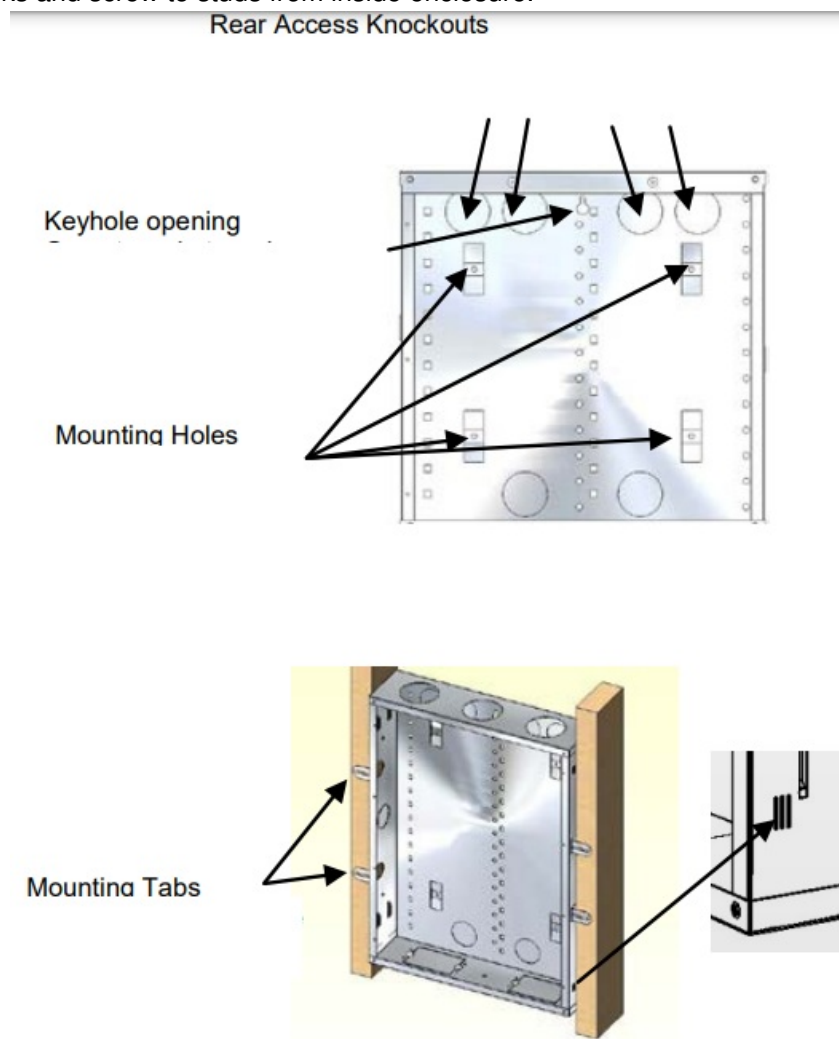

Surface Mounting
Typically mounted to plywood backboard by first hanging from keyhole opening and marking and drilling any rear-access knockouts if cable access is from rear.
Use indicated mounting holes for permanent mounting with wood screws.

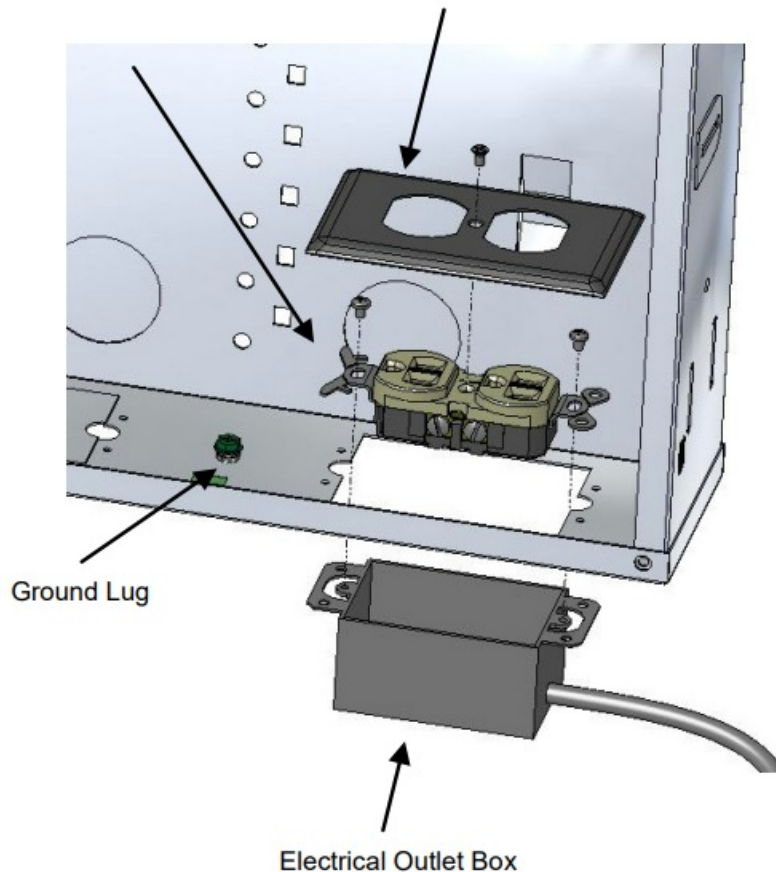## Recessed Mounting between 16" on-center studs
For 1/2" drywall, bend side tabs out and secure to studs with screws, or position enclosure to desired depth using embossed depth marks and screw to studs from inside enclosure.

Running Power to the Enclosure
AC power needs to be run to the enclosure when installing any module that requires AC or DC power to operate. A low-voltage UL listed, Class 2, plug-in power supply is required when using these modules. Low voltage power options are available from your Legrand distributor. Remove knock-out in the bottom of the enclosure. Install a single-gang metal outlet box. Run a length of nonmetallic power cable to the enclosure for connection of a standard 15 amp, 120 volt power receptacle (available as a kit from Legrand as P/N F7526). The ground cable is to be routed from the enclosure to the house electrical ground. The ground screw is located inside the bottom of the enclosure.

Note: Separation of circuits must be maintained and electrical wiring must comply with the National Electric Code (NFPA 70), Canadian Electric Code, and all applicable state or local codes.

Duplex Receptacle   Duplex Receptacle Coverplate

Ground Lug

Electrical Outlet Box

Cable Rough-In
All cabling to and from the enclosure is low voltage class 2 or communication cables. All code and good wiring practices should be maintained, such as maintaining separation from power and using proper cable retention. The next section describes rough-in at the enclosure.

NOTE: The enclosure must be grounded. Use a minimum of 14 AWG copper wire to connect the ground lug to earth ground. Electric ground shall be considered at the same potential as earth ground.

- **Telephone Rough-In**
    1. Install Category cable (depending on application) from the enclosure to the telephone company network interface device (NID). Label cable near entry to the enclosure and at outlet location.
    2. Install Category cable (depending on application) from the enclosure to each of the outlet locations. Label cable near entry to the enclosure and at outlet location.
    3. Position and secure cables to comply with codes and good wiring practices to ensure cables are not damaged during construction.
    NOTE: It is recommended that a second Cat 5e cable be run from the telephone network interface to the enclosure for future data applications.
- Coax Rough-In
    1. Install Quad Shield RG6 cable from the enclosure to the outlet locations. Route the cable through the appropriate upper access hole with approximately three feet of excess. Label cable near entry to the enclosure and at outlet location.

2. Install 2-5 Quad Shield solid copper center conductor RG6 cables from the enclosure to any planned dish antenna location. Route the cables through one of the upper access hole with approximately three feet of excess. Label cables near entry to the enclosure and antenna location.

3. Install Quad Shield RG6 cable from the enclosure to any media center input and video outlets. Route the cable through one of the upper access hole with approximately three feet of excess. Label cable near entry to the enclosure and outlet location.

4. Position and secure cables to comply with codes and good wiring practices to ensure cables are not damaged during construction.

- Other Cable Rough-In
    1. For local area network (LAN) and other data connections, install Category 5e cable from the enclosure to the desired outlets.
    2. For audio and other low voltage applications, install appropriate cable per the application instructions.

- Security and Control Wiring (control wiring is low voltage wiring which controls lighting and other household systems):
    1. Install security and control cabling from the enclosure to the sensors and devices being controlled. Route the cable through the enclosure access holes with approximately three feet of excess. Label cables near the entry into enclosure and at outlet location.
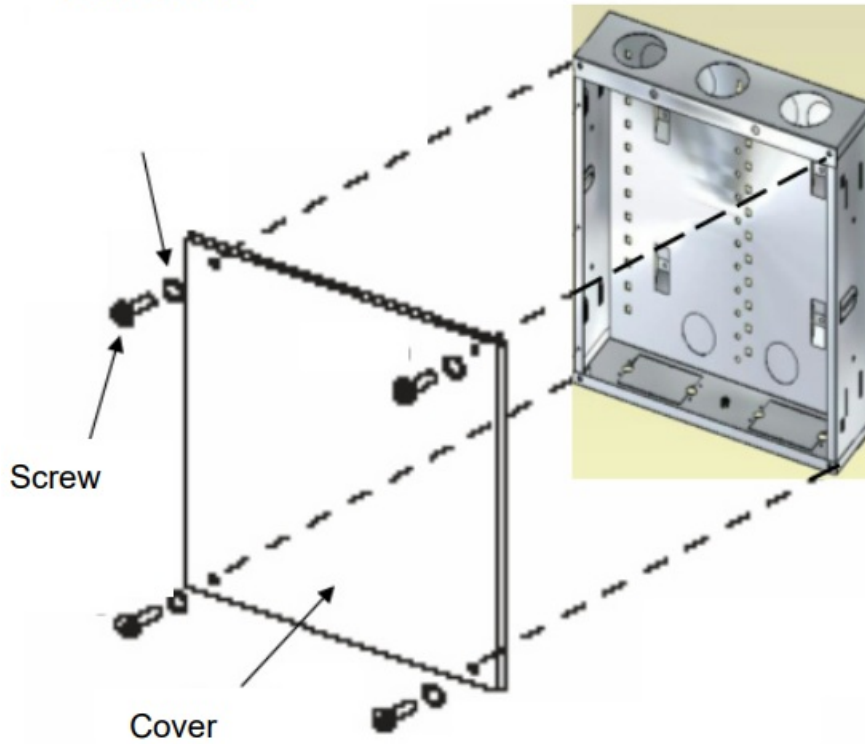
Screw-on Cover Installation

NOTE: Only use Legrand covers with the enclosure. Covers must be matched to the proper size enclosure.

- Partially install the top two (2) screws in the enclosure.
- Hang the screw-on cover on the two partially installed screws using the keyhole openings in the cover. The cover should hang freely and fit up against the enclosure; if not, check to see if cables are outside the enclosure or check to see if cables are being pinched.
- Install the remaining two screws with lock washers, and tighten.
- Remove the top two screws and reinstall with lock washers. Tighten the screws.
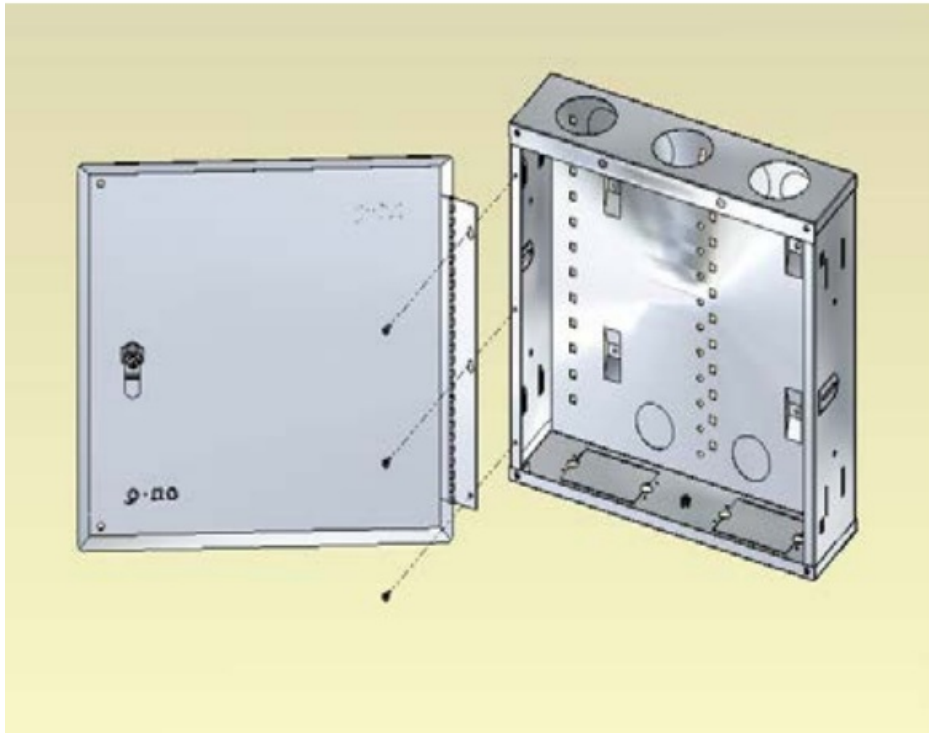
NOTE: Screws must be installed with lock washers to ensure proper cover grounding. The screws and lock washers must be installed to ensure the cover is electrically grounded to the enclosure.
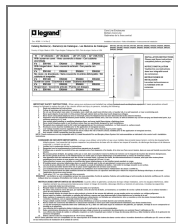
Lock Washer

Screw

Cover

Hinged Cover Installation

- Partially install two (2) hinged cover mounting screws in the top two holes on the enclosure.
- Hang the hinged cover on the two partially installed screws using the keyhole openings on the hinge. The cover should fit up against the enclosure (surface mount) or the wall (recessed mount). If the cover does not fit properly, check that the cables are not being pinched, or that the lock is not in the locked position.
- Install the remaining hinge screws with lock washers.
- Remove the top two screws and reinstall with lock washers. Tighten the screws.
- Lock hinged cover if desired.

Documents / Resources

legrand EN2080 Core Line Enclosure [pdf] Instruction Manual
EN2080 Core Line Enclosure, EN2080, Core Line Enclosure, Line Enclosure, Enclosure

References

- **Legrand CA | Delivering and Managing Power, Light, and Data**
- **Legrand US | Delivering and Managing Power, Light, and Data**
- **User Manual**