



**CONNECT AND PROTECT**

# ProLine G2

The Industrial Modular Solution

# Stronger. Faster. Easier.

## THE MODULAR ENCLOSURE SOLUTION

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Hoffman's ProLine G2 modular solution is designed to be stronger, faster and easier. With a hybrid frame, it is designed to remain square under the heavy loads of industrial applications, while being faster to load and easier to assemble. ProLine G2 features an innovative modular design which offers the following benefits:

- **Better Interior Access**  
Removable doors, tops, sides and bases.
- **More Mounting Options**  
Multiple subpanels, rack mounting, swing-out panels or racks, grid system mounting.
- **Designed to Join/Bay**  
Join enclosures without field modification. Easier to move and ship large systems.
- **Custom Solutions from Standard Components**  
Hundreds of components and accessories that can be used to create unique plug and play solutions.



## APPLICATIONS

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- Industrial automation controls (PLC, VFD)
- Process controls (DCS, SCADA, Safety Systems)
- Networking in industrial environments
- Electrical panels
- Equipment protection
- Power distribution
- HMI controls



# ProLine G2.

## THE NEXT GENERATION MODULAR SOLUTION

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ProLine G2 raises the level of innovation, quality and value in modular electrical enclosures.

- **Superior Performance Under Load**  
Frame remains square allowing for a solid door close.
- **Maximized Usable Space**  
More room for your electronics; same footprint.
- **Easier and Faster to Load Electronics**  
Save time and money.
- **Built to Last**  
Durable materials and quality components.
- **Expanded Standard Size Options**  
Quickly get what you want with over 150 standard frame options and over 350 standard industrial package options.

## THE HOFFMAN DIFFERENCE

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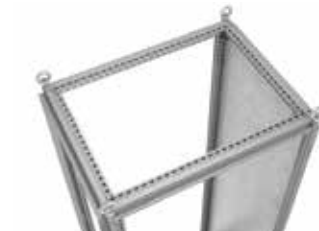
- **Assemble to Order at No Additional Cost**  
Don't pay someone to assemble your enclosure. Let Hoffman's factory certified professionals assemble it for you.
- **Standard, Modified or Custom Solutions**  
Custom colors, holes/cut-outs, integrated accessories or more unique solutions are never a problem.
- **Global Distribution Network**  
Experts who know you and work to satisfy your needs.
- **ISO Certified Manufacturing Facilities**  
Global sites that produce repeatable quality you can rely on.
- **UL Certified Testing and Global Certifications**  
Rigorous testing above and beyond global requirements.
- **Customer First Commitment**  
Configuration advice, design changes, or spare parts. Hoffman will get what you need.



EZ-Install Grid Network



EZ-Load Glide Block



Mounted sub-panel, rear-most position



Flange Trough Collar



# Next Generation Innovation

## **HYBRID FRAME\***

Superior performance under load.



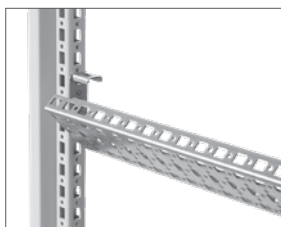
## **SMOOTH GLIDE LATCHING\***

A solid seal with a low closure force.



## **EZ-INSTALL GRID NETWORK**

Quick installation and flexible configuration options.



## **FLUSH SWING HANDLE**

Low profile, ergonomic design.



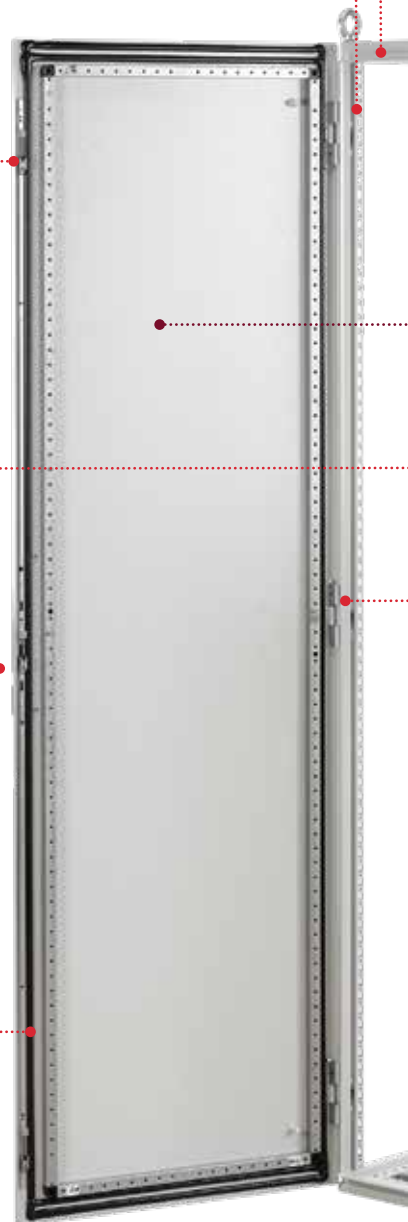
## **SEAMLESS FOAM-IN-PLACE GASKET**

Water- and dust-tight seal against moisture and contaminants.



## **DURO-STAND GLAND PLATES**

Durable gland plates designed so a person can stand on them.



**PROTECT YOUR ELECTRICAL EQUIPMENT**

**SAVE TIME AND MONEY**



### **FLANGE TROUGH COLLAR**

Superior protection from contaminants.

### **OPTIMIZED DOOR DESIGN**

Solid swing, high load capacity and maximum usable space.

### **FRONT LOAD BV-M6\***

Blind, variable M6 screw-based fastener.

### **REVERSIBLE HINGING**

Retained hinge pins for easy door removal.

### **POWDER COAT PAINT FINISH INSIDE AND OUT**

Superior performance in industrial environments.

### **EZ-LOAD MOUNTING SYSTEM\***

Safer and more flexible mounting subpanel installation and optimal space efficiency.

\*Patent Pending

**SIMPLE ASSEMBLY AND INSTALLATION**

**PROLINE G2**

# Stronger.

## SQUARE FOUNDATION

A foundational design element of ProLine G2 is the 12-gauge (2.5 mm) hybrid frame.\* The frame of a modular enclosure is the key design element which protects the expensive equipment inside the enclosure.

### OPEN AND CLOSED PROFILES

A frame with an open profile design has a more gradual failure mode under load; the frame opens up gradually but doesn't collapse.

A closed profile frame can be used to create strength with less material; however this design is susceptible to bending when a load is applied (which can create door close problems). The closed profile has a catastrophic failure mode (analogous to a soda can that could hold the weight of a person until a side is compromised).

\*Patent pending

### NEXT GENERATION HYBRID DESIGN

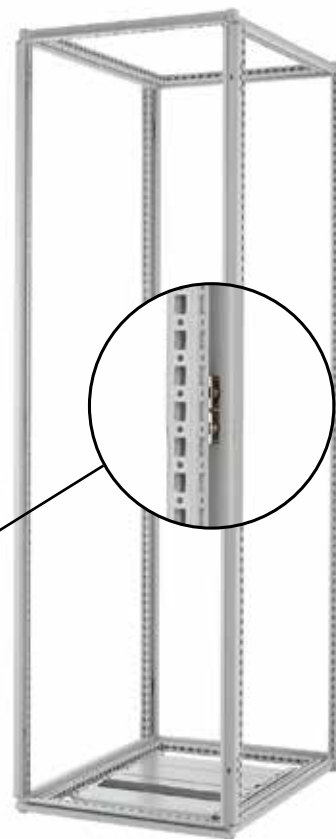
ProLine G2's patent-pending hybrid frame is an innovative combination of an open and closed frame profile. The profile of a modular frame is a cross section of the vertical or horizontal frame. An open profile has no connecting folds; a closed profile has connecting folds.

### SUPERIOR PERFORMANCE UNDER LOAD

The 12-gauge hybrid frame of ProLine G2 combines the advantages of open and closed frame profiles, resulting in superior performance under load in every direction (all three axes). The frame also features a durable powder-coated finish.

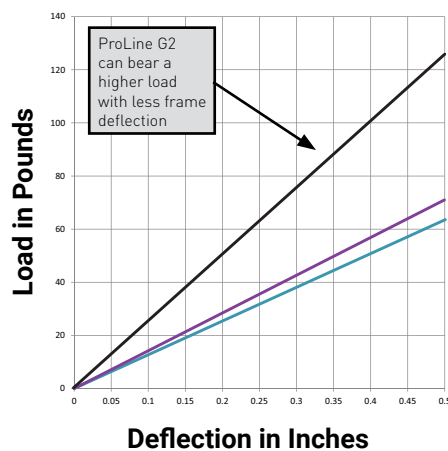


12-gauge hybrid frame

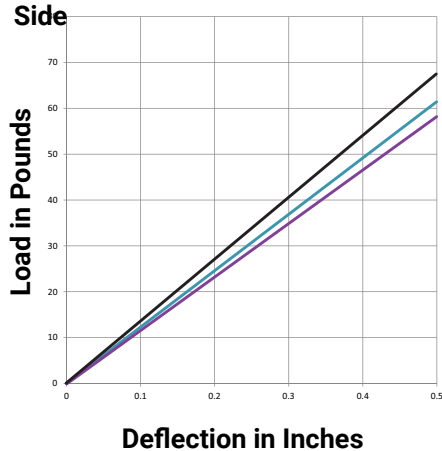


### FRAME STRENGTH COMPARISON

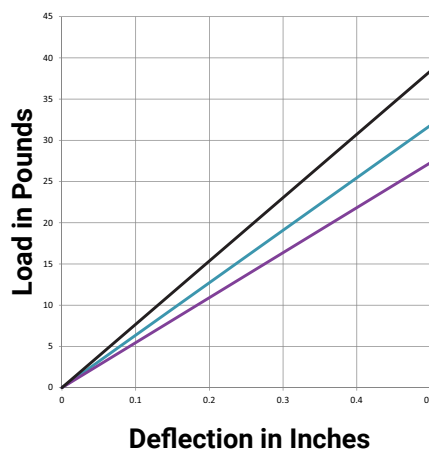
#### Front to Back



#### Side to Side



#### Twist/Torque



— ProLine G2 — ProLine — Competitor



## DURABLE, HIGH QUALITY COMPONENTS

### SECURE DOOR CLOSE

ProLine G2 has a high-performance door which features a solid swing, a high load capacity, and a reliable and repeatable close.



### SMOOTH GLIDE LATCHING\*

Smooth latching over the lifetime of the enclosure is achieved through a combination of a sturdy double-flanged latch rod and three Delrin® rollers which prevent metal-on-metal grinding. A patent-pending, timed latch engagement ensures the top and bottom of the door catch reliably and repeatedly.



### DURO-STAND GLAND PLATES

Gland plates are used with a plinth base to provide cable management solutions while maintaining a NEMA 12 rating. ProLine G2's unique Duro-Stand Gland Plate was designed to bear the weight of a person, making it easier to work on the enclosure when the gland plate is installed.

### LARGE DOOR OPENING

ProLine G2 has a large door (and door opening), which means it is easier to work inside the enclosure, and there is more room to add electronics or accessories to the door.



### FLUSH SWING HANDLE

The handle of ProLine G2 is ergonomically designed to provide style and function in a low profile. A full offering of lock inserts can be used including key, double-bit, slotted screw, DIN and padlock.



### FULLY SEALED PLINTH BASE

No need to use a gland plate with our 100 mm solid base, which includes fully-sealed gland plates on the sides. Solid bases can easily be joined, creating additional base options.



### PLINTH BASE WITH DURABLE CAST ALUMINUM CORNER BLOCKS

A plinth base consists of four corner supports connected to four access panels to provide space for cable entry. ProLine G2's cast aluminum corner supports provide superior structural support and enhanced stability during in-the-field wiring.

\*Patent pending

# Faster.

## SAVE TIME AND MONEY

The EZ-Load Mounting System in ProLine G2 was designed to make loading the mounting subpanel into the frame faster and safer by giving the user a variety of loading options. The EZ-Load Glide Blocks can be used to load a subpanel vertically from the front, rear or side. Additionally, they can be used to load a subpanel horizontally from the front or rear.

### TRADITIONAL SOLUTIONS/VERTICAL SUBPANEL LOADING



Front Loading



Rear Loading



Side Loading

### NEW SOLUTIONS - HORIZONTAL LOADING

The EZ-Load Glide Blocks can be used to attach the mounting subpanel to the frame while the subpanel is horizontal. This is convenient if the mounting subpanel is populated on a table prior to inserting into the enclosure. The frame can be lowered over the mounting subpanel (horizontal rear loading), or conversely the subpanel could be lowered into the frame

(horizontal front loading). EZ-Load Glide Blocks can be fastened and then the frame lifting eyes can be used to lift the frame and subpanel. This new, more controlled solution enables faster and easier installation while reducing the risk of injuries related to inserting a fully populated subpanel into an electrical enclosure.

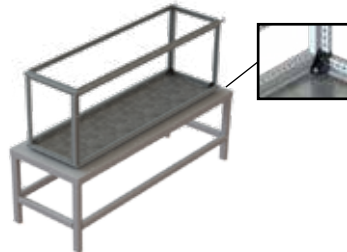
### 4-STEP PROCESS FOR HORIZONTAL LOADING



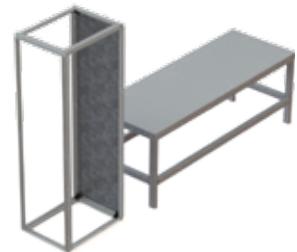
Place mounting subpanel on table



Lower frame over mounting subpanel



Fasten frame to subpanel using EZ Load Glide Blocks



Use lifting eyes to raise frame and mounting subpanel



## MAXIMUM SPACE UTILIZATION

ProLine G2's mounting subpanel features the highest space efficiency ratio of any global competitor: 84%. The space efficiency ratio is simply the area of the mounting subpanel divided by the area of the enclosure.

$$\text{Space Efficiency Ratio} = \frac{\text{Mounting Subpanel (HxW)}}{\text{Enclosure (HxW)}}$$

### DEPTH ADJUSTABLE

The mounting subpanel is easily depth adjustable.



### REARMOST POSITION

The mounting subpanel can be used in the rearmost position of the enclosure (completely inset into the frame) to maximize usable space.



### BACK-TO-BACK SUBPANELS

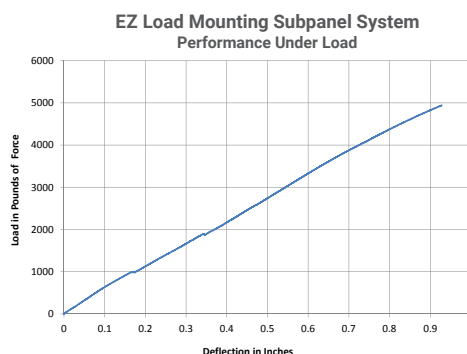
Two subpanels can be used back-to-back with no space between.



## PERFORMANCE UNDER LOAD

The EZ-Load Mounting System and the EZ-Load Glide Blocks underwent static and dynamic load testing. With a safety factor of 2.5, the subpanel mounting system in ProLine G2 can bear 2000 lbs.\* Note: IEC 62208 tests the load to a 1.25 safety factor.

\* Load rating is for an enclosure with a frame size of 2000x600x800mm and varies by enclosure size.



## SAFELY SECURED

The weight of the mounting subpanel is supported by the frame and securely fastened at the top and bottom.



Top



Bottom

# Easier.

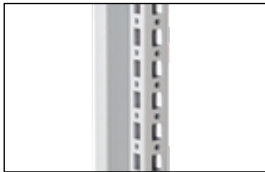
## SIMPLE ASSEMBLY AND INSTALLATION

### BV-M6 FASTENER

ProLine G2 takes innovation to the next level with the patent-pending BV-M6 fastener. With the BV-M6 you don't need to access the back of the fastener to tighten and the thickness of the item you are attaching needn't be pre-defined.

### COMBINED SCREW AND NUT

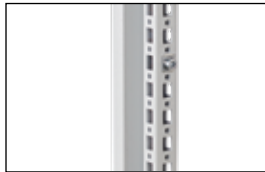
The BV-M6 fastener combines a screw and nut in one easy-to-handle package, which makes attaching items to the frame or grid strap network easier than ever. Just insert the BV-M6 into a rectangular hole in either the vertical or horizontal frame section and tighten.



Insert BV-M6 into regular hole in frame



Tighten with T30 Torx tool



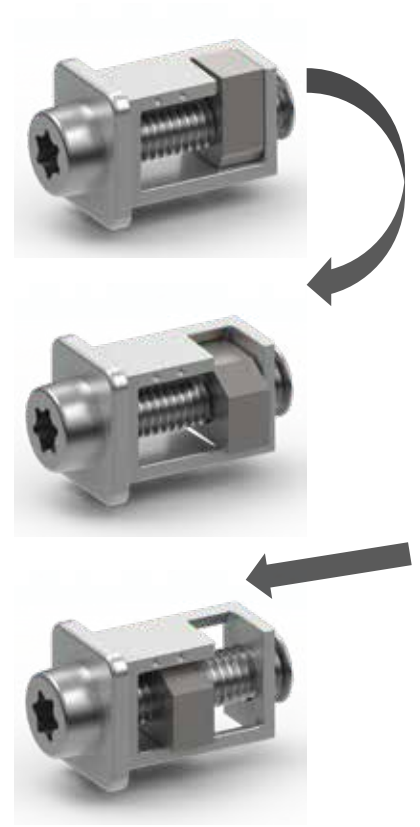
Use BV-M6 to attach grid straps, accessories or other brackets

### SNAP-IN GRID STRAP

Now you can attach grids straps to the frame with just two fasteners per side. Use BV-M6 fasteners to attach the brackets, then snap in the grid strap and secure in place with a BV-M6 on each side.

### NO REDUCTION OF USABLE WIDTH

The grid straps and brackets are inset within the frame and form a smooth interior surface, maintaining the maximum usable width of the frame.



BV-M6 Actuation: As the Torx head is tightened, the embedded nut engages and travels up the thread.

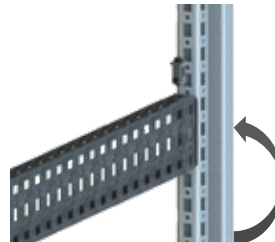
### Grid Strap Installation



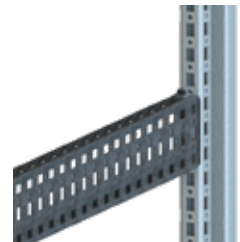
Install bracket on each side  
1 BV-M6 per bracket



Hook grid strap on bracket



Snap in place



Secure with 1 BV-M6 per side  
(can secure on top or bottom)

## EXPANDED STANDARD SIZE OPTIONS

ProLine G2 industrial packages include a solid door, handle and key lock, top, rear cover, galvanized subpanel (mounting plate), galvanized gland plate, and four lifting eyes.

Side walls and bases can be ordered separately with many options to choose from to suit your application.

### SIMPLY CHOOSE YOUR SIZE AND OPTIONS

#### STANDARD TYPE 12, DISCONNECT AND EMC PROTECTED OPTIONS

| HEIGHT<br>(mm) | WIDTH<br>(mm)                         | DEPTH<br>(mm)            |
|----------------|---------------------------------------|--------------------------|
| 600            | 600, 800                              | 400, 600, 800            |
| 800            | 600, 800                              | 400, 600, 800            |
| 1000           | 600, 800, 1200                        | 400, 500, 600, 800       |
| 1200           | 600, 800, 1200                        | 400, 500, 600, 800       |
| 1400           | 600, 800, 1200                        | 500, 600, 800            |
| 1600           | 600, 800, 1200                        | 500, 600, 800            |
| 1800           | 600, 800, 1200, 1600                  | 400, 500, 600, 800       |
| 2000           | 400, 600, 800, 1000, 1200, 1600, 1800 | 400, 500, 600, 800, 1000 |
| 2200           | 400, 600, 800, 1000, 1200, 1600, 1800 | 400, 500, 600, 800, 1000 |

- Not every depth is available for each width

- Custom sizes available upon request

### SMART NUMBER MODEL KEYS

#### INDUSTRIAL PACKAGES

| Model      | Component              | Type   | Height  | Width   | Depth   | Specialty   | Catalog Number |
|------------|------------------------|--|---|---|---|---|----------------|
| P2         | K                      | Blank  | 20  | 8   | 6   | Blank   | = P2K2086      |
| PROLINE G2 | Industrial Package/Kit | Blank = single door<br>OD = overlapping double door<br>DR = disconnect right<br>DL = disconnect left | mm<br>22 = 2200<br>20 = 2000<br>18 = 1800<br>16 = 1600<br>14 = 1400<br>12 = 1200<br>10 = 1000<br>8 = 800<br>6 = 600 | mm<br>18 = 1800<br>16 = 1600<br>12 = 1200<br>10 = 1000<br>8 = 800<br>6 = 600<br>4 = 400 | mm<br>10 = 1000<br>8 = 800<br>6 = 600<br>5 = 500<br>4 = 400 | Blank = left hinge/<br>key lock<br>E = right hinge/<br>double bit lock<br>HF = EMC components |                |

NOTE: Not every combination is available as a standard product.

#### SIDE COVERS\*

| Model      | Component | Type   | Height  | Depth   | Specialty                              | Catalog Number |
|------------|-----------|--|---|---|--|----------------|
| P2         | C         | S  | 20  | 6   | Blank                                  | = P2CS206      |
| PROLINE G2 | Cover     | Blank = cover<br>S = side cover<br>B = barrier panel | mm<br>22 = 2200<br>20 = 2000<br>18 = 1800<br>16 = 1600<br>14 = 1400<br>12 = 1200<br>10 = 1000<br>8 = 800<br>6 = 600 | mm<br>10 = 1000<br>8 = 800<br>6 = 600<br>5 = 500<br>4 = 400 | Blank = standard<br>HF = EMC protected |                |

NOTE: Not every combination is available as a standard product.

#### OTHER COMPONENT CODES\*\*

| Model      | Component   |
|------------|---|
| P2         | K   |
| PROLINE G2 | K = Industrial Package (Kit)<br>F = Frame<br>D = Door<br>T = Top<br>C = Cover<br>P = Mounting Subpanel<br>G = Grid Accessory<br>R = Rack Accessory<br>A = ..... |



TYPE 12 UL/NEMA/CSA/EEMAC  
IP55 IEC/VDE

\*Sold singly

\*\*For more complete information on ordering individual components, visit [HOFFMAN.nVent.com](http://HOFFMAN.nVent.com)

# Comprehensive

## PRODUCT OFFERING

ProLine G2 features a comprehensive set of standard components and accessories. These standard components can be used to create a custom enclosure uniquely suited to your application.

### COVER AND SIDE OPTIONS



Solid Cover



Solid Door



Window Door



Overlapping Double Door



Dress Frame

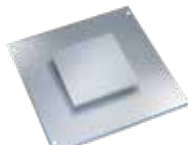


Disconnect Door

### TOP AND BASE OPTIONS



Solid Top  
Solid Base



Pagoda Top



Fully Sealed Plinth  
100 mm Solid Base



Plinth Base



Transportation Base



Cable Entry  
Gland Plate

### MOUNTING SUBPANEL SOLUTIONS



Full Subpanels



Partial Subpanels



Swing-out  
Subpanels



Side-Mount  
Subpanel



Joining Subpanel



Rack Panel

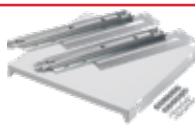
### RACK AND GRID MOUNT ACCESSORIES



Rack Angles



Grid Straps  
(to form Grid  
Network)



Pull-out Shelf



Drawer



Keyboard  
Compartment



Console  
Compartment

## STANDARD COMPONENTS AND ACCESSORIES

### COOLING AND HIGH PERFORMANCE ACCESSORIES

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Slim Fit Air Conditioner



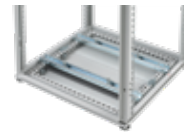
Fans and Filters



Barrier Panel



Panel Support  
Brace



Transformer Rails



Center Upright

### DOOR, BASE AND TOP ACCESSORIES

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Casters



Electrical and  
Mechanical Door  
Interlocks



Data Pockets



Lifting Eyes, Angles  
and Bars



Door Stop



Folding Shelf

### BUSBARS, GROUNDING BARS AND CABLE MANAGEMENT ACCESSORIES

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Grounding Braids



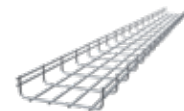
Grounding Bars



Cable Entry Cabinet



Cable Tiedown



Basket Tray



D Rings

### ACCESSORIES

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Joining Kit



Hole Seals



LED Lights



HMI Solutions



Handle Options



Window Kits

# Four Ways to Select Your ProLine G2



## OPTION 1: STANDARD

### PROLINE G2 INDUSTRIAL PACKAGES

ProLine G2 industrial packages are full-featured, ready-to-use enclosure solutions that make it unnecessary to order each component separately. The offering is rounded out by a large selection of off-the-shelf accessories.

- Reversible door
- Handle and key lock
- Top
- Rear cover
- Full subpanel
- Gland plate
- Lifting eyes



TYPE 12 UL®/NEMA/CSA/EEMAC  
IP55 IEC/VDE

## OPTION 2: DESIGN YOUR STANDARD

### CONFIGURE FROM STANDARD PARTS

Build your enclosure from the ground up using standard parts. Starting with the frame, select from the wide range of available tops, bases, covers, sides and doors as well as a large variety of accessories to configure the optimal solution for your needs.

## OPTION 3: MODIFIED

### CONFIGURE FROM STANDARD PARTS + CUSTOM PAINT + HOLES/CUT-OUTS

Need a specific paint color or custom holes or cut-outs? You can add these requirements to your standard configuration with only a small effect on your first-run delivery lead time.

## OPTION 4: CUSTOM

### CONFIGURE FROM MODIFIED PARTS + CUSTOM PAINT + HOLES/CUT-OUTS

Need something more unique? We will modify the standard ProLine G2 to fit your specific application needs. This option includes special dimensions, integrated ventilation or cooling components, custom-designed components or other unique requirements you may have. A strong engineering team and global manufacturing organization support this service across the globe.

## FREE FACTORY ASSEMBLY

Whether you need a standard preconfigured enclosure or a custom solution, ProLine G2 enclosures can be assembled at the factory free of charge as part of Hoffman's unique Assemble To Order program.

Save time and hassle by using this free service offering.

- Factory assembly by certified professionals
- Preconfigured or custom solutions
- No fee
- Fast delivery





# Specifications

## COMPONENT SPECIFICATIONS\*

Load ratings are based on an enclosure size of 2000 x 600 x 800 mm and vary by enclosure size.

| COMPONENT                      | THICKNESS (gauge/mm) | MATERIAL  | SURFACE FINISH                             | LOAD RATING (lb/kg) | SAFETY FACTOR <sup>5</sup> |
|--------------------------------|----------------------|---|--|---------------------|----------------------------|
| Frame                          | 12/2.5               | roll-formed, carbon steel; fully welded corners; 25 mm DIN standard | painted <sup>3</sup>                       | 3500/1587           | 1.5                        |
| Mounting subpanel <sup>1</sup> | 10-12/3.0-2.5        | carbon steel  | galvanized or painted options <sup>3</sup> | 2000/907            | 2.5                        |
| Door                           | 14/1.75              |   | painted <sup>3</sup>                       | 250/113             | 1.5                        |
| Covers and Sides <sup>2</sup>  | 14-16/1.75-1.5       |   | painted <sup>3</sup>                       | 300/136             | 1.5                        |
| Grid strap – 3 row (single)    | 14/1.75              |   | galvanized                                 | 300/136             | 1.5                        |
| Grid strap – 1 row (single)    | 14/1.75              |   | galvanized                                 | 200/90              | 1.5                        |
| Gland plate                    | 14/1.75              |   | galvanized or painted options <sup>4</sup> | 200/90              | 1.5                        |

<sup>1</sup>Mounting subpanels ≥1200mm (W) 10/3.0, <1200mm are 12/2.5

<sup>2</sup>Covers >600mm (W) are 14/1.75, ≤600mm are 16/1.5. Side Covers >800 (D) are 14/1.75, ≤800 are 16/1.5.

<sup>3</sup>Powder-coated color RAL 7035 textured light gray, custom colors available.

<sup>4</sup>Industrial packages include galvanized mounting subpanel and galvanized gland plates.

<sup>5</sup>IEC 62208 uses a 1.25 safety factor, which would result in higher load ratings.

## INDUSTRY STANDARDS

UL 508A Listed; Type 12; File Number E61997  
cUL Listed per CSA C22.2 No 94; Type 12; File Number E61997

NEMA/EEMAC Type 12

CSA File Number 42186: Type 12

VDE IP55

IEC 60529, IP55

## COMPONENT DETAILS

### FRAME

- Welded corners with steel corner blocks
- Flange trough collar on door and side openings deflect liquids away from the enclosure interior
- Accommodate 25 mm DIN standard
- Rectangular frame holes designed for BV-M6 fasteners or metric cage nut fasteners
- Round frame holes accommodate M5 self-tapping screws and allow numerous grounding locations using M5 thread-forming screws
- Universal frame member used for both horizontal and vertical frame sections to simplify component installation
- Uniform internal frame width to simplify component installation
- Removable rear centerpost for frames ≥1200 mm wide
- Integral frame channels support the full weight of the subpanels

### MOUNTING SUBPANEL

- Includes four sets of EZ Load Mounting Blocks which accommodate five loading options: vertical front, vertical side, vertical rear, horizontal rear (frame over subpanel), horizontal front (subpanel lowered into frame)
- Depth adjustable, accommodates back-to-back subpanels
- Subpanels can be mounted in 25 mm increments from front to rear and on the sides
- Side mount subpanels can be mounted on the sides

## NOMINAL VERSUS ACTUAL SIZE

Example frame enclosure size: 2000x600x800 mm

|             | NOMINAL | PROLINE G2 | PROLINE |
|-------------|---------|------------|---------|
| Height (mm) | 2000    | 2002.0     | 1982.8  |
| Width (mm)  | 600     | 607.6      | 607.6   |
| Depth (mm)  | 800     | 805.0      | 794.6   |

### DOORS

- Door bar system on all doors (including window doors)
- Single/primary door includes three-point roller latch system with timed latch engagement (two-point latching for heights ≤800mm)
- Two-door enclosures include overlapping double doors to provide full-width open front; secondary door latches with one center lever
- Reversible hinging on single and overlapping double doors
- Two grounding studs

### GASKET

- Seamless foam-in-place gasket (UL component recognized) on all external components

## CAD DRAWINGS

Available at [HOFFMAN.nVent.com](http://HOFFMAN.nVent.com)

\* Specifications reflect typical performances and are subject to change without notice.

## North America

Minneapolis, MN

Tel: +1.763.421.2240

Mexico City, Mexico

Tel: +52.55.5280.1449

Toronto, Canada

Tel: +1.416.289.2770

## South America

Sao Paulo, Brazil

Tel: +55.11.5184.2100

Boitura, Brazil

Tel: +55.15.3363.9148

## Europe

Betschdorf, France

Tel: +33.3.88.90.64.90

Straubenhardt, Germany

Tel: +49.7082.794.0

Dzierzoniow, Poland

Tel: +48.74.64.63.900

Lainate, Italy

Tel: +39.02.932.7141

## Middle East & India

Dubai, United Arab Emirates

Tel: +971.4.378.1700

Bangalore, India

Tel: +91.80.6715.2001

## Asia

Shanghai, P.R. China

Tel: +86.21.2412.6943

Singapore

Tel: +65.6768.5800

Shin-Yokohama, Japan

Tel: +81.45.476.0271

Seoul, Korea

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