

# INCRECIBLE<sup>TM</sup> BULK

**CABLE MANAGEMENT  
PIT / VAULT  
SYSTEM SERIES**

**BROUGHT TO YOU BY CHANNELL**

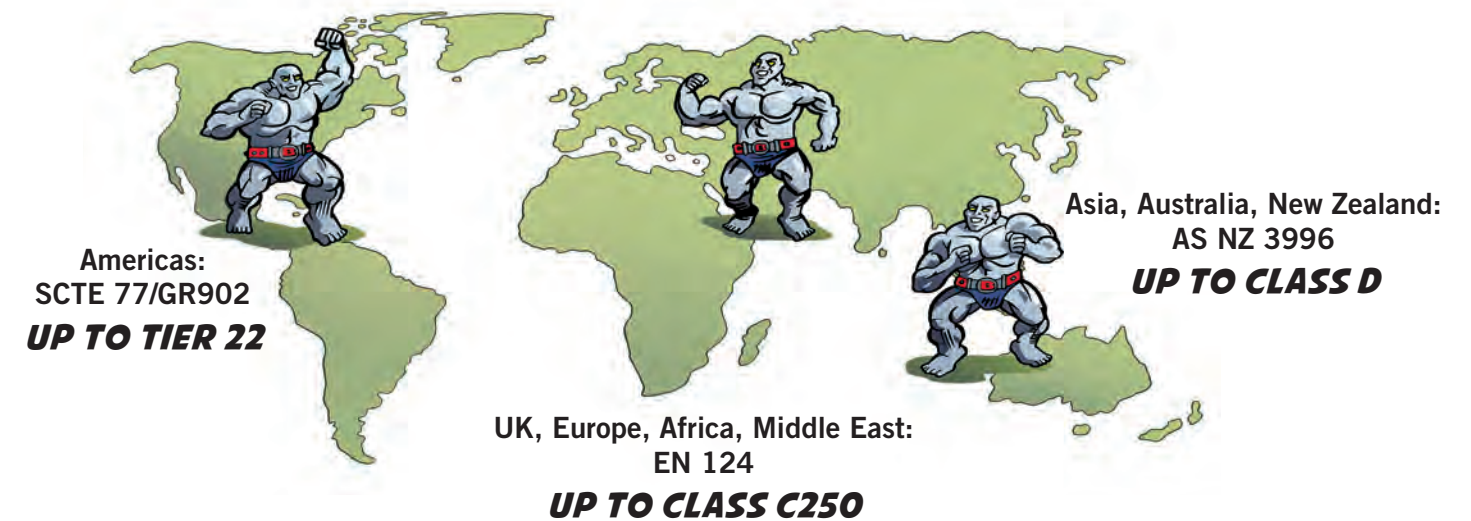
**FIBERX<sup>TM</sup>**

*Dedicated to protecting fiber optics through design, innovation, and service.*



***The Only One of its Kind in the World.***

The Incredible Bulk is the **first & only** plastic grade level box to meet Tier 22, Class C, and other global test load specifications representative of a load bearing capacity of up to 33,750lbs. / 150 kN. Test load meets or exceeds global market standards:



## ***The Incredible Bulk: Leader of the Underground.***

Channell's SGLB design revolutionized the box business; and with over one million in service, Channell has proven itself a force to be reckoned with in the industry. Now, the brilliant engineers of Channell have updated the SGLB design and created a new monster: The Incredible Bulk.

### ***What is the Incredible Bulk?***

The Incredible Bulk is an upgradable, re-enterable cable management vault system series with the highest-performance standards in the industry; making it the leader of the underground.

- One universal vault body
- Upgradeable design
- Incredible strength
- Lightweight solution
- Superior cable management system

### ***What makes Bulk different?***

- Upgrade in design: Bulk features embedded, factory installed racking
- Racking gives Bulk the ability to be upgraded to a heavy duty application by simply changing the lid
- Bulk eliminates the need for a ring
- Bulk's racks provide optimal cable organization and eliminate the need to purchase racking



**Ductile Iron Lid**  
Min. load: 28,100 lb. • 125 kN  
Max. load: 56,200 lb. • 250 kN

**Polymer Concrete/Composite Material Lid**  
Min. load: 18,000 lb. • 80 kN  
Max. load: 33,750 lb. • 150 kN

**Thermoplastic Lid**  
Min. load: 3,000 lb. • 13.3 kN  
Max. load: 8,000 lb. • 35.6 kN

**Thermoplastic Split Lid with Plug**  
Min. load: 3,000 lb. • 13.3 kN  
Max. load: 8,000 lb. • 35.6 kN

**Optional Composite Ring**  
Min. load: 18,000 lb. • 80 kN  
Max. load: 33,750 lb. • 150 kN

**Universal Vault Body**  
Load: Exceeds 47,000 lb • 210 kN

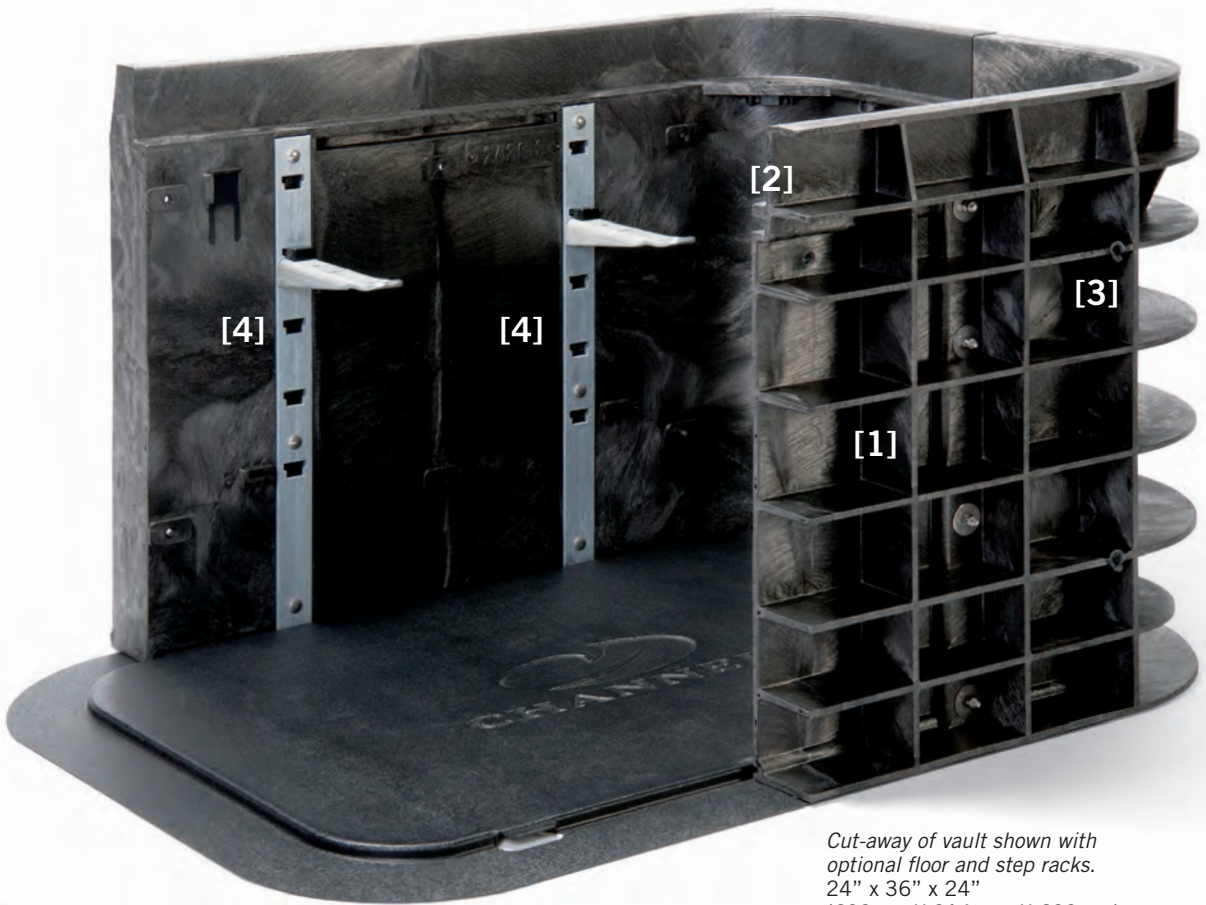
## ***The Strongest Vault System in the Industry.***

***Incredible Bulk features one universal vault body that is upgradeable to meet the standards of light, medium, and heavy duty applications by simply changing its lid or ring design.***





# What Makes the Incredible Bulk SO Incredible?



Cut-away of vault shown with optional floor and step racks. 24" x 36" x 24" (609mm X 914mm X 609mm)



## HDPE Structural Foam

HDPE structural foam guarantees strength and durability, and also makes The Incredible Bulk incredibly lightweight! So while Bulk may exert incredible strength, that strength is not required in return for installation. Bulk's lightweight body eliminates the need for a crane, and therefore increases craft safety and lowers installation costs.

## [1] Shutterbox/High Rib Design

The shutterbox, high rib design externally reinforces and locks Bulk into the ground; making The Incredible Bulk even stronger once installed.

## [2] I-Beam design

The patented "I-Beam" design greatly increases the cover load bearing capacity and sidewall strength by allowing the cover load to be supported by the complete sidewall. (Patent #7,381,888)

## [3] Straight Sidewall Design

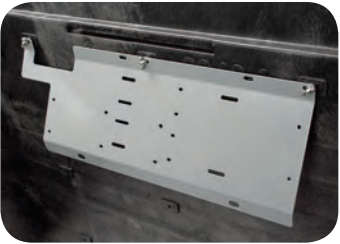
The straight sidewall design increases the internal working space of the vault while also providing a better organization and cable management system by allowing vertical racking. Bulk's straight sidewall also contributes to lower installation costs and increased craft safety by eliminating the need of a large placement hole.

## [4] Flush To Wall™ Metal Racking

The factory installed, embedded racking contributes to the structural functionality of the vault body; maximizing the overall strength and load bearing capacity.



Swing Arm with Mounting Plate

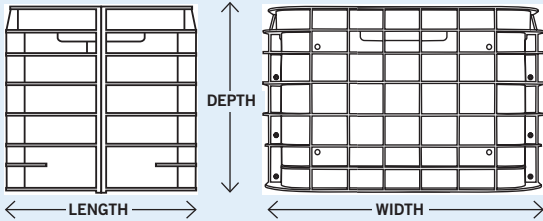


Sidewall Mounting Plate



Step Rack

## UNIVERSAL VAULT BODY SIZES

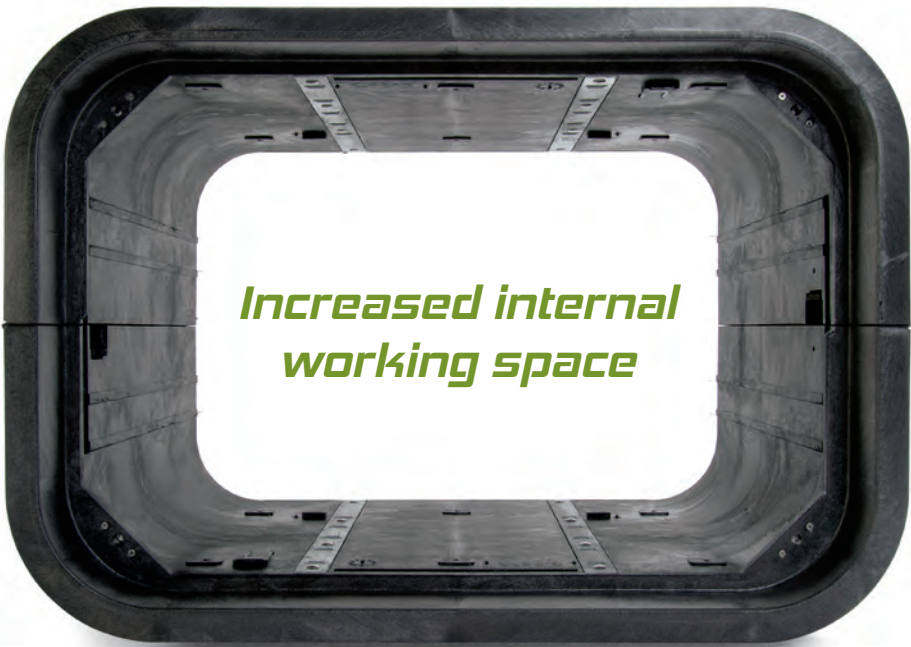


### NORTH AMERICA

| Product Name | Dimensions in Inches |   |    |   |    |
|--------------|----------------------|---|----|---|----|
|              | L                    | x | W  | x | D  |
| BULK 1324    | 13                   | x | 24 | x | 24 |
| BULK 1230    | 12                   | x | 30 | x | 24 |
| BULK 1730    | 17                   | x | 30 | x | 24 |
|              | 17                   | x | 30 | x | 36 |
| BULK 2436    | 24                   | x | 36 | x | 24 |
|              | 24                   | x | 36 | x | 36 |
| BULK 2448    | 24                   | x | 48 | x | 36 |
| BULK 2476    | 24                   | x | 76 | x | 42 |
| BULK 3048    | 30                   | x | 48 | x | 36 |

### INTERNATIONAL

| Product Name | Dimensions in Millimeters |   |      |   |      |
|--------------|---------------------------|---|------|---|------|
|              | L                         | x | W    | x | D    |
| BULK 1       | 330                       | x | 609  | x | 669  |
| BULK 2       | 305                       | x | 762  | x | 609  |
| BULK 3       | 432                       | x | 762  | x | 609  |
|              | 432                       | x | 762  | x | 863  |
| BULK 4       | 609                       | x | 914  | x | 609  |
|              | 609                       | x | 914  | x | 863  |
| BULK 5       | 609                       | x | 1219 | x | 914  |
| BULK 6       | 609                       | x | 1930 | x | 1067 |
| BULK 7       | 762                       | x | 1219 | x | 914  |



Increased internal working space



Winterized Door Drop



"L" Bolt Security Latch



Customized Logo Puck



Hook Bracket







Wherever you are, Channell offers an Incredible Bulk Vault System to fit your application.

The Incredible Bulk features one universal vault body that is upgradeable to meet the standards of light, medium, and heavy duty applications simply by changing the lid or ring design.

Specifications vary based on country, so be sure to review the guidelines that apply to your region.



Light Duty

Application:

- Targeted to light pedestrian use/light vehicular traffic
  - Residential
  - Parklands
- Vault body is made of HDPE structural foam; flush mounted racking is standard
- Lid features a L-bolt™ lock
- Vault body is upgradeable to medium and heavy duty applications with a simple change in lid or ring design



Medium Duty

Application:

- Used in areas of frequent pedestrian traffic and occasional vehicular traffic
  - Sidewalks
  - Traffic Dividers
- Vault body is made of HDPE structural foam; flush mounted racking is standard.
- Lid is made of polymer concrete/ composite materials
- L-bolt or bolt down cover versions available
- Optional composite or galvanized steel ring
- Vault body is upgradeable to heavy duty applications with a simple change in lid or ring design



Heavy Duty

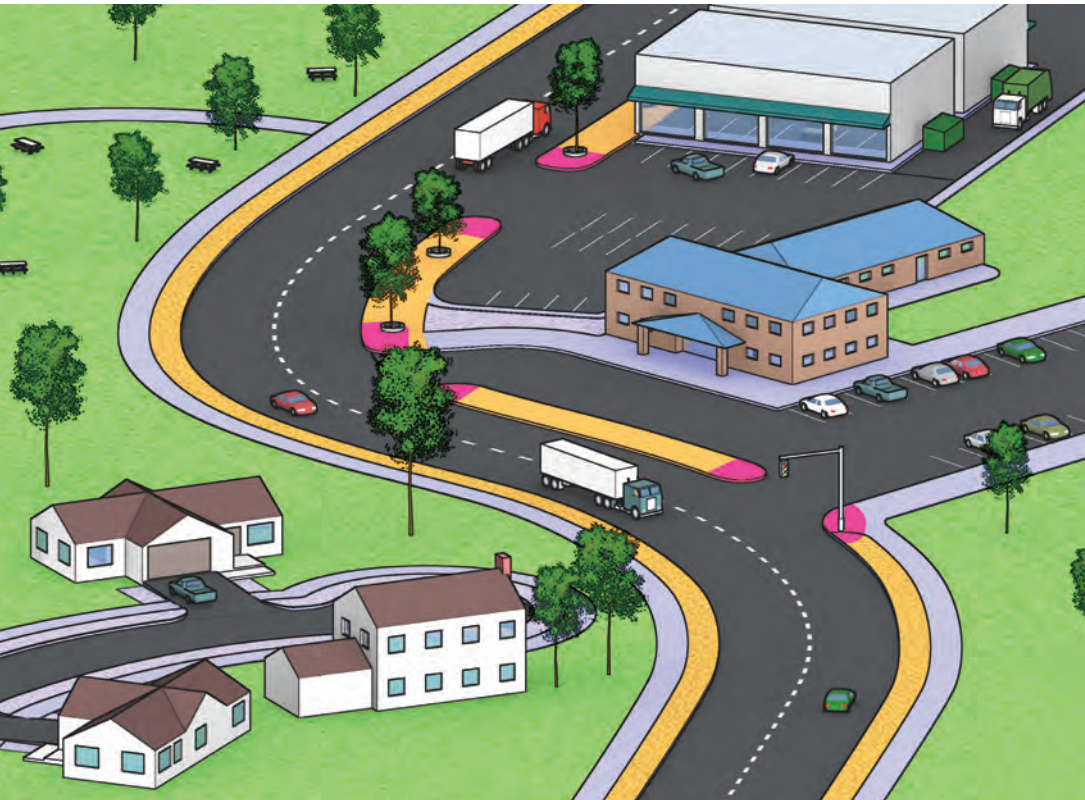
Application:

- Used where light truck and auto traffic occur sporadically
  - Driveways
  - Alleys
  - Secondary roads
- Vault body is made of HDPE structural foam; flush mounted racking is standard
- Drop in polymer concrete/ composite material or ductile iron lid
- Bolt down version only
- Composite or ductile iron ring is available for concrete or asphalt applications



| Performance Category                            | Application (Installation Location)  | GVW (lb.) | Max Wheel Load (lb.) | Design Load | Test Load | Specification | Load Category          |
|---|--|-----------|----------------------|-------------|-----------|---------------|------------------------|
| Light Duty Pedestrian Only                      | Non-vehicular traffic limited to light vehicle. Includes grass surround; if in designated walkway.   | 5,000     | 2,000                | 2,000       | 3,000     | ANSI/ SCTE 77 | Light Duty, Pedestrian |
| Medium Duty Non-Deliberate (Incidental) Traffic | Non-vehicular traffic limited to Class 5 (1 ½ ton truck). Generally, protected in a sidewalk i.e. adjacent to lighting standard or street cabinet. Includes handhole (vault) that may include a cabinet or pedestal installed in a PC cover. | 19,500    | 7,800                | 8,000       | 12,000    | ANSI/ SCTE 77 | Tier 8                 |
| Heavy Duty Deliberate (Incidental) Traffic      | Non-vehicular traffic limited to Class 7 (2 ½ ton truck). Generally, in a sidewalk but not at a corner or driveway.  | 40,000    | 16,000               | 15,000      | 22,500    | ANSI/ SCTE 77 | Tier 15                |
|   |  |           |                      | 22,500      | 33,750    | ANSI/ SCTE 77 | Tier 22                |

Notes: 1) "Max Wheel Load (lb.)" is based on the AASHTO/ ASTM 40% of GVWR rule.  
2) "Design Load" and "Test Load" values are in pounds force (lb f) unless noted otherwise.  
3) ANSI/ SCTE 77 Test Loads are based on Design Load x Safety Factor of 1.5  
4) "Light Duty" Design Load may not be suitable for installation in a dedicated pedestrian walkway (sidewalk) unless the cover coefficient of friction is ≥ 0.5; HDPE is typically < 0.45  
5) "Heavy Duty" Performance Category is subdivided into two ranges to accommodate ANSI/ SCTE 77 "Tiers"



APPLICATION GUIDE  
(refer to above table)

- 1) Light Duty\* Pedestrian Only

Diagram Label Color:

\* 3,000 lbs
- 2) Medium Duty Up To Class 5 - Tier 8\* Pedestrian/Light Incidental Traffic

Diagram Label Color:

\* 12,000 lbs
- 3) Heavy Duty Up To Class 7 - Tier 15\* Non-Continuous Vehicular Traffic

Diagram Label Color:

\* 22,500 lbs
- 4) Heavy Duty Up To Class 8 - Tier 22\* Non-Deliberate Vehicular Traffic

Diagram Label Color:

\* 33,750 lbs

Hand Hole Traffic Rated Product Required - Not Applicable

Diagram Label Color:

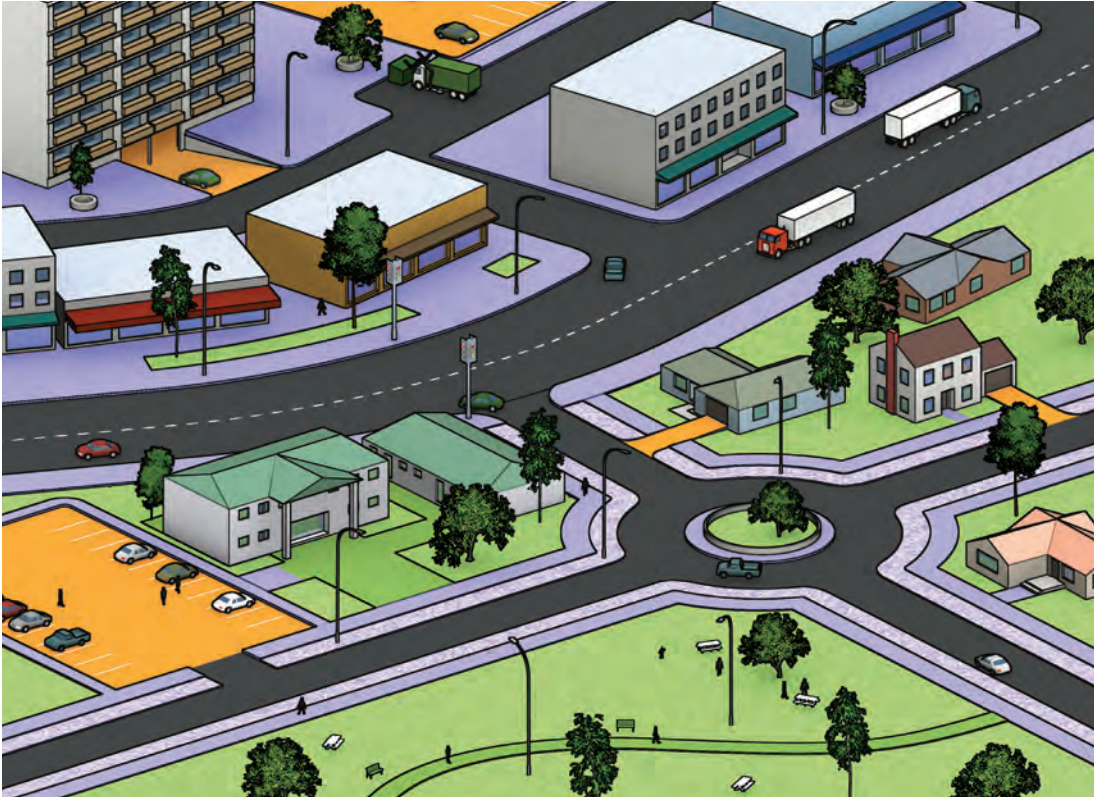


| Performance Category                            | Application (Installation Location)  | GVM (kg.) | Nominal Wheel Load (kg) | Design Load (kN) | Test Load (kN) | Specification   | Load Category |
|---|--|-----------|-------------------------|------------------|----------------|-----------------|---------------|
| Light Duty Pedestrian Only                      | Non-vehicular traffic limited to pedestrians and cyclists. Areas closed to other traffic.  | 670       | 335                     | 6.7              | 10             | AS/NZ 3996:2006 | Class A       |
| Medium Duty Non-Deliberate (Incidental) Traffic | Areas where vehicular traffic is limited to footways and light tractor paths or livestock. | 5300      | 2,650                   | 53               | 80             | AS/NZ 3996:2006 | Class B       |
| Heavy Duty Deliberate Traffic                   | Areas open to slow moving vehicular traffic including commercial vehicles.                 | 10,000    | 5,000                   | 100              | 150            | AS/NZ 3996:2006 | Class C       |
|   | Areas open to commercial traffic. Carriageways of roads.                                   | > 14,000  | 7,000                   | 140              | 210            |                 | Class D       |

Notes: 1) “Nominal Wheel Load (kg)” is based on 50% of GVM  
2) “Design Load” and “Test Load” values are in kilonewtons (kN) unless noted otherwise.  
3) AS/NZ 3996 Test Loads are based on Design Load x Safety Factor of 1.5  
4) “Heavy Duty” Performance Category is subdivided into two ranges to accommodate separate vehicular traffic conditions.

| Performance Category                            | Application (Installation Location)  | GVM (kg.) | Nominal Wheel Load (kg) | Design Load (kN) | Test Load (kN) | Specification | Load Category |
|---|--|-----------|-------------------------|------------------|----------------|---------------|---------------|
| Light Duty Pedestrian Only                      | Non-vehicular traffic limited to pedestrians and cyclists. Areas closed to other traffic.                            | 1,000     | 500                     | 10               | 15             | EN 124:1994   | Class A15     |
| Medium Duty Non-Deliberate (Incidental) Traffic | Areas where vehicular traffic is limited to footways, pedestrian areas, and car parks.                               | 8,333     | 4,167                   | 83               | 125            | EN 124:1994   | Class B125    |
| Heavy Duty Deliberate Traffic                   | Areas extending no more than .5 m into carriageway from the curb and no more than .2 m from the curb to the footway. | 16,667    | 8,333                   | 167              | 250            | EN 124:1994   | Class C250    |
|   | Areas open to commercial traffic. Carriageways of roads.   | 26,667    | 13,333                  | 267              | 400            |               | Class D400    |

Notes: 1) “Nominal Wheel Load (kg.)” is based on 50% of GVM  
2) “Design Load” and “Test Load” values are in kilonewtons (kN) unless noted otherwise.  
3) EN 124 Test Loads are based on Design Load x Safety Factor of 1.5  
4) “Heavy Duty” Performance Category is subdivided into two ranges to accommodate separate vehicular traffic conditions.



APPLICATION GUIDE  
(refer to above table)

1) Light Duty Up To Class A\*  
Pedestrian Only

Diagram Label Color:

\*10 kN

2) Medium Duty Up To Class B\*  
Non-Deliberate (Incidental) Traffic

Diagram Label Color:

\* 80 kN

3) Heavy Duty Up To Class C\*  
Deliberate Vehicular Traffic

Diagram Label Color:

\* 150 kN

4) Heavy Duty Up To Class D\*  
Deliberate Vehicular Traffic

Diagram Label Color:

\* 210 kN



APPLICATION GUIDE  
(refer to above table)

1) Light Duty Up To Class A15\*  
Pedestrian Only

Diagram Label Color:

\*15 kN

2) Medium Duty Up To Class B125\*  
Non-Deliberate (Incidental) Traffic

Diagram Label Color:

\* 125 kN

3) Heavy Duty Up To Class C250\*  
Deliberate Vehicular Traffic

Diagram Label Color:

\* 250 kN

4) Heavy Duty Up To Class D400\*  
Deliberate Vehicular Traffic

Diagram Label Color:

\* 400 kN



FiberX™ is a superhero fiber optic product team in the Channell Universe that is dedicated to the protection of fiber optics. FiberX is committed to making the world of fiber optics a better place through design, innovation, and service.

FiberX products feature an optimal fiber splice management system that is simple, organized, and craft-friendly. With a wide range of features and accessories, FiberX offers a customized solution to meet the needs of any FTTX application.

The strength of FiberX has evolved from Channell's 90 years of experience and leadership in thermoplastic enclosures for the telecommunication and broadband industries. FiberX embodies the same patented, reliable, and proven features that have contributed to Channell's reputation and great success.

**FOR MORE INFORMATION ABOUT FIBERX  
PRODUCTS, CALL 800-423-1863.**



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