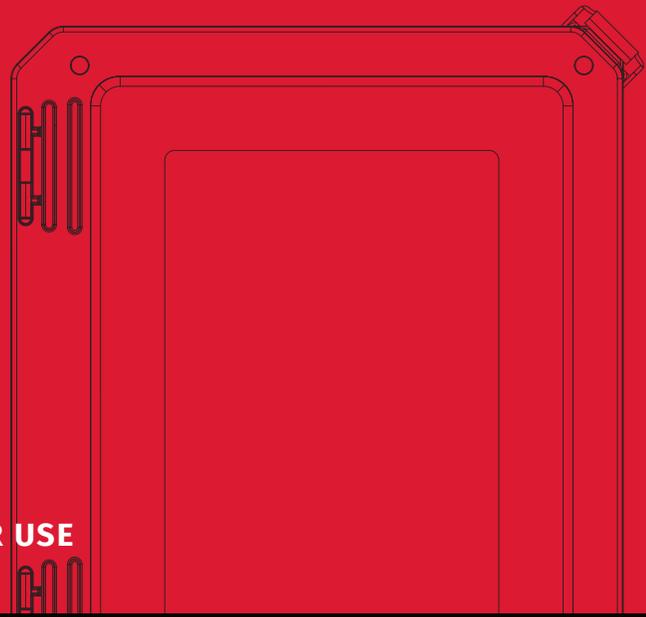




Diamond Shield[®] Series

EASILY ADAPTABLE AND AESTHETICALLY PLEASING
FIBERGLASS ENCLOSURES FOR INDOOR AND OUTDOOR USE



Diamond Shield Series Enclosures offer unique internal equipment management capabilities to increase user flexibility while allowing for utilization of every cubic inch of valuable internal enclosure space.

MARKETS AND INDUSTRIES:

- Ideal for Non-Hazardous Industrial and Commercial OEM market segments
- Industries such as O&G, Electrical Control, Water Wastewater, Manufacturing, Communications, Wireless & Remote Monitoring

APPLICATIONS:

- Stahlin Diamond Shield enclosures are ideal for applications including high-end electronics, harsh corrosive environments, and industrial applications both indoors and out.

INNOVATIVE FEATURES:

- Available in 3 cover options, each with multiple cover securement methods:
 - 1. Opaque cover
 - 2. Flush bonded window
 - 3. Clear polycarbonate cover
- Maximum visibility to raised panels and control devices
- High temperature, flame retardant, non corrosive, environmental designs
- Stands up to an exceptionally broad range of chemical exposures
- Results in an environmentally sealed, environmentally sound space
- High impact resistance
- No penetrable hardware
- Unobstructed walls for ease of conduit or component placement
- Double insulated material to eliminate incidental electrical contact
- Solid construction in a lightweight design
- UV Resistant

INDUSTRY STANDARDS:

- UL/CUL File #E64358
- NEMA Ratings (UL508A, UL50 & UL50E): 1, 3, 3S, 4X, 12, 13
- CSA STD. C22.2 File #LR069014
- IEC IP66 Rating
- UL 1741 File #E333478
- Temperature Range: (-76°F to +274°F) (-60°C to +134°C)
- Window Temperature Range: (-26°F to +170°F) (-32°C to +76°C)
- Clear Cover Temperature Range: (-40°F to +248°F) (-40°C to +120°C)
- Flammability Rating: UL94-5V
- Clear Cover Flammability Rating: UL94-5V
- IK10 Impact Rating
- Self-Extinguishing: Non-halogenated, non-flame propagating
- NFPA NO. 101 Flame Spread: Class A (1)
- Outdoor UV Exposure (UL 746C): (f1) Rated



PRODUCT CONFIGURATIONS:

OPAQUE COVER



HINGED,
2 LOCKABLE
PULL LATCHES



HINGED,
2 COVER
SCREWS



4 COVER SCREWS,
LIFT-OFF
COVER



HINGED,
2 LOCKABLE
LINK LATCHES

FLUSH BONDED WINDOW



HINGED,
2 LOCKABLE
PULL LATCHES



HINGED,
2 LOCKABLE
LINK LATCHES

CLEAR COVER



HINGED,
2 LOCKABLE
PULL LATCHES

OPAQUE COVER CONFIGURATIONS



HPL

HINGED, 2 LOCKABLE PULL LATCHES

Materials:

→ SolarGuard® hot compression molded fiberglass reinforced polyester

Gasket:

→ Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal

Stainless Steel Hardware:

→ 300 Series stainless used on all external hardware

Mounting Bosses

→ Panel mounting capability for fixed rear panel

Metal Inserts

→ All bosses utilize threaded brass inserts accepting 10-32 screws

Soft Edge Design

→ Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris

→ Latches in corners to maximize mounting space

Color

→ Standard glacier grey (PMS 428C). Additional colors available as part of ModRight program—consult factory.



HW

HINGED, 2 COVER SCREWS

Materials:

→ SolarGuard® hot compression molded fiberglass reinforced polyester

Gasket:

→ Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal

Recessed Screws:

→ No protruding surfaces

Stainless Steel Hardware:

→ 300 Series stainless used on all external hardware

Mounting Bosses

→ Panel mounting capability for fixed rear panel

Metal Inserts

→ All bosses utilize threaded brass inserts accepting 10-32 screws (Cover — screws 10-24)

Soft Edge Design

→ Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris

Color

→ Standard glacier grey (PMS 428C). Additional colors available as part of ModRight program—consult factory.



W

4 COVER SCREWS, LIFT-OFF COVER

Materials:

→ SolarGuard® hot compression molded fiberglass reinforced polyester

Gasket:

→ Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal

Recessed Screws:

→ No protruding surfaces

Stainless Steel Hardware:

→ 300 Series stainless used on all external hardware

Mounting Bosses

→ Panel mounting capability for fixed rear panel

Metal Inserts

→ All bosses utilize threaded brass inserts accepting 10-32 screws (Cover — screws 10-24)

Soft Edge Design

→ Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris

Color

→ Standard glacier grey (PMS 428C). Additional colors available as part of ModRight program—consult factory.



HLL

HINGED, 2 LOCKABLE LINK LATCHES

Materials:

→ SolarGuard® hot compression molded fiberglass reinforced polyester

Gasket:

→ Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal

Stainless Steel Hardware:

→ 300 Series stainless used on all external hardware

Mounting Bosses

→ Panel mounting capability for fixed rear panel

Metal Inserts

→ All bosses utilize threaded brass inserts accepting 10-32 screws

Soft Edge Design

→ Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris

→ Latches in corners to maximize mounting space

Color

→ Standard glacier grey (PMS 428C). Additional colors available as part of ModRight program—consult factory.

CATALOG #	OVERALL H x W x D	INSIDE H x W x D	PANEL NUMBER
DS60604*	742 x 779 x 4.31	6.77 x 6.77 x 4.06	BP66**
DS80604*	942 x 779 x 4.31	8.77 x 6.77 x 4.76	BP86**
DS80804*	939 x 977 x 4.31	8.74 x 8.74 x 4.06	BP88**
DS100806*	1142 x 980 x 6.31	10.73 x 8.73 x 6.06	BP108**
DS121006*	1346 x 1183 x 6.31	12.72 x 10.72 x 6.06	BP1210**
DS141206*	1549 x 1386 x 6.34	14.72 x 12.72 x 6.06	BP1412**
DS141208*	1549 x 1386 x 8.34	14.72 x 12.72 x 8.06	BP1412**
DS161408*	1759 x 1596 x 8.34	16.69 x 14.69 x 8.06	BP1614**
DS181610*	1977 x 1815 x 10.34	18.63 x 16.63 x 10.06	BP1816**
DS201610*	2179 x 1817 x 10.34	20.63 x 16.63 x 10.06	BPJ2016**

*add suffix for configuration:
HPL = hinged w/pull latches,
HW = hinged w/cover screws,
W = lift-off cover w/cover screws,
HLL = hinged w/link latches

**add suffix for panel material:
AL = aluminum,
CS = carbon steel
FG = fiberglass
SS = stainless steel

Panel sold separately.

FLUSH BONDED WINDOW CONFIGURATIONS



HPL

HINGED, 2 LOCKABLE PULL LATCHES

Materials:

→ SolarGuard® hot compression molded fiberglass reinforced polyester

Gasket:

→ Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal

Stainless Steel Hardware:

→ 300 Series stainless used on all external hardware

Mounting Bosses

→ Panel mounting capability for fixed rear panel

Metal Inserts

→ All bosses utilize threaded brass inserts accepting 10-32 screws

Soft Edge Design

→ Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris

→ Latches in corners to maximize mounting space

Bonded Window

→ Precision routed flush bonded Super Abrasion Resistant acrylic material for maximum visibility

Color

→ Standard glacier grey (PMS 428C). *Additional colors available as part of ModRight program—consult factory.*



HLL

HINGED, 2 LOCKABLE LINK LATCHES

Materials:

→ SolarGuard® hot compression molded fiberglass reinforced polyester

Gasket:

→ Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal

Stainless Steel Hardware:

→ 300 Series stainless used on all external hardware

Mounting Bosses

→ Panel mounting capability for fixed rear panel

Metal Inserts

→ All bosses utilize threaded brass inserts accepting 10-32 screws

Soft Edge Design

→ Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris

→ Latches in corners to maximize mounting space

Bonded Window

→ Precision routed flush bonded Super Abrasion Resistant acrylic material for maximum visibility

Color

→ Standard glacier grey (PMS 428C). *Additional colors available as part of ModRight program—consult factory.*

CATALOG #	OVERALL H x W x D	INSIDE H x W x D	WINDOW AREA H x W	PANEL NUMBER
DSW60604*	7.42 x 7.79 x 4.31	6.77 x 6.77 x 4.06	4.25 x 4.25	BP66**
DSW80604*	9.42 x 7.79 x 4.31	8.77 x 6.77 x 4.76	6.25 x 4.25	BP86**
DSW80804*	9.39 x 9.77 x 4.31	8.74 x 8.74 x 4.06	6.25 x 6.25	BP88**
DSW100806*	11.42 x 9.80 x 6.31	10.73 x 8.73 x 6.06	8.25 x 6.25	BP108**
DSW121006*^	13.46 x 11.83 x 6.31	12.72 x 10.72 x 6.06	10.25 x 8.25	BP1210**
DSW141206*^	15.49 x 13.86 x 6.34	14.72 x 12.72 x 6.06	12.25 x 10.25	BP1412**
DSW141208*^	15.49 x 13.86 x 8.34	14.72 x 12.72 x 8.06	12.25 x 10.25	BP1412**
DSW161408*	17.59 x 15.96 x 8.34	16.69 x 14.69 x 8.06	14.25 x 12.25	BP1614**
DSW181610*	19.77 x 18.15 x 10.34	18.63 x 16.63 x 10.06	16.25 x 14.25	BP1816**
DSW201610*	21.79 x 18.17 x 10.34	20.63 x 16.63 x 10.06	18.25 x 14.25	BPJ2016**

*add suffix for configuration:
HPL = hinged w/pull latches,
HLL = hinged w/link latches

**add suffix for panel material:
AL = aluminum, CS = carbon steel
FG = fiberglass, SS = stainless steel
Panel sold separately.

^only available in HPL
configuration

CLEAR COVER CONFIGURATION



HINGED, 2 LOCKABLE PULL LATCHES

Materials:

- Body – SolarGuard® hot compression molded fiberglass reinforced polyester
- Cover – clear polycarbonate with UV inhibitors

Gasket:

- Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal

Stainless Steel Hardware:

- 300 Series stainless used on all external hardware

Mounting Bosses

- Panel mounting capability for fixed rear panel

Metal Inserts

- All bosses utilize threaded brass inserts accepting 10-32 screws

Soft Edge Design

- Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris
- Latches in corners to maximize mounting space

Bonded Window

- Precision routed flush bonded Super Abrasion Resistant acrylic material for maximum visibility

Color

- Standard glacier grey (PMS 428C). *Additional colors available as part of ModRight program—consult factory.*

CATALOG #	OVERALL H x W x D	INSIDE H x W x D	PANEL NUMBER
DSCC60604HPL	7.42 x 7.79 x 4.31	6.77 x 6.77 x 4.06	BP66*
DSCC80604HPL	9.42 x 7.79 x 4.31	8.77 x 6.77 x 4.76	BP86*
DSCC80804HPL	9.39 x 9.77 x 4.31	8.74 x 8.74 x 4.06	BP88*
DSCC100806HPL	11.42 x 9.80 x 6.31	10.73 x 8.73 x 6.06	BP108*
DSCC121006HPL	13.46 x 11.83 x 6.31	12.72 x 10.72 x 6.06	BP1210*
DSCC141206HPL	15.49 x 13.86 x 6.34	14.72 x 12.72 x 6.06	BP1412*
DSCC141208HPL	15.49 x 13.86 x 8.34	14.72 x 12.72 x 8.06	BP1412*
DSCC161408HPL	17.59 x 15.96 x 8.34	16.69 x 14.69 x 8.06	BP1614*

***add suffix for panel material:
AL = aluminum, CS = carbon steel
FG = fiberglass, SS = stainless steel
Panel sold separately.*

PANEL OPTIONS – PANEL MANAGEMENT SYSTEM®

BACK PANEL

- Traditional sized back panel
- Common industry mounting footprint
- Wide choice of material
- See individual sections above for back panel catalog number reference



DEAD FRONT SWING PANEL

- Mounts at the front of the enclosure
- Larger surface area when compared to the variable height swing panel
- Hinged on one side, secured to the other
- Used in conjunction with corner mounting posts
- See catalog and website for catalog number and ordering information



VARIABLE HEIGHT STATIONARY PANEL

- Mounts at any height in the enclosure base, including as back panel or use as a top stationary dead front panel
- Larger panel area than traditional back panels maximizes surface mounting area
- Used in conjunction with corner mounting posts
- See catalog and/or website for catalog number and ordering information



VARIABLE HEIGHT SWING PANEL

- Mounts at any height in the enclosure base
- Hinged on one side, secured to the other
- Used in conjunction with corner mounting posts
- See catalog and/or website for catalog number and ordering information



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