DiamondShield™

It's What You Want It To Be!

Stahlin Non-Metallic Enclosures
Fiberglass Electrical & Instrumentational Enclosures

DiamondShield™
Fiberglass Electrical & Instrumentational Enclosures

◆ *Revolutionary Design… every cubic inch of the interior volume easily available and thoroughly protected!*

◆ *Unsurpassed "No Limits" Panel Management System™… use ALL enclosure space… including the inside of the door!*

◆ *Flexibility… 10 sizes – more than 150 configurations!*

◆ *Durability… IEC, NEMA, UL and CSA ratings to NEMA 4X, IP 66.*

◆ *Interchangeable Hardware… Numerous cover, latching, and mounting options.*

◆ *Molded from Stahlin's patent pending double protection weathering grade fiberglass... SOLARGUARD™*

◆ *Cost Competitive… you get more…you don't pay more!*

STAHLIN

www.stahlin.com

Let The Revolution Begin

DiamondShield™
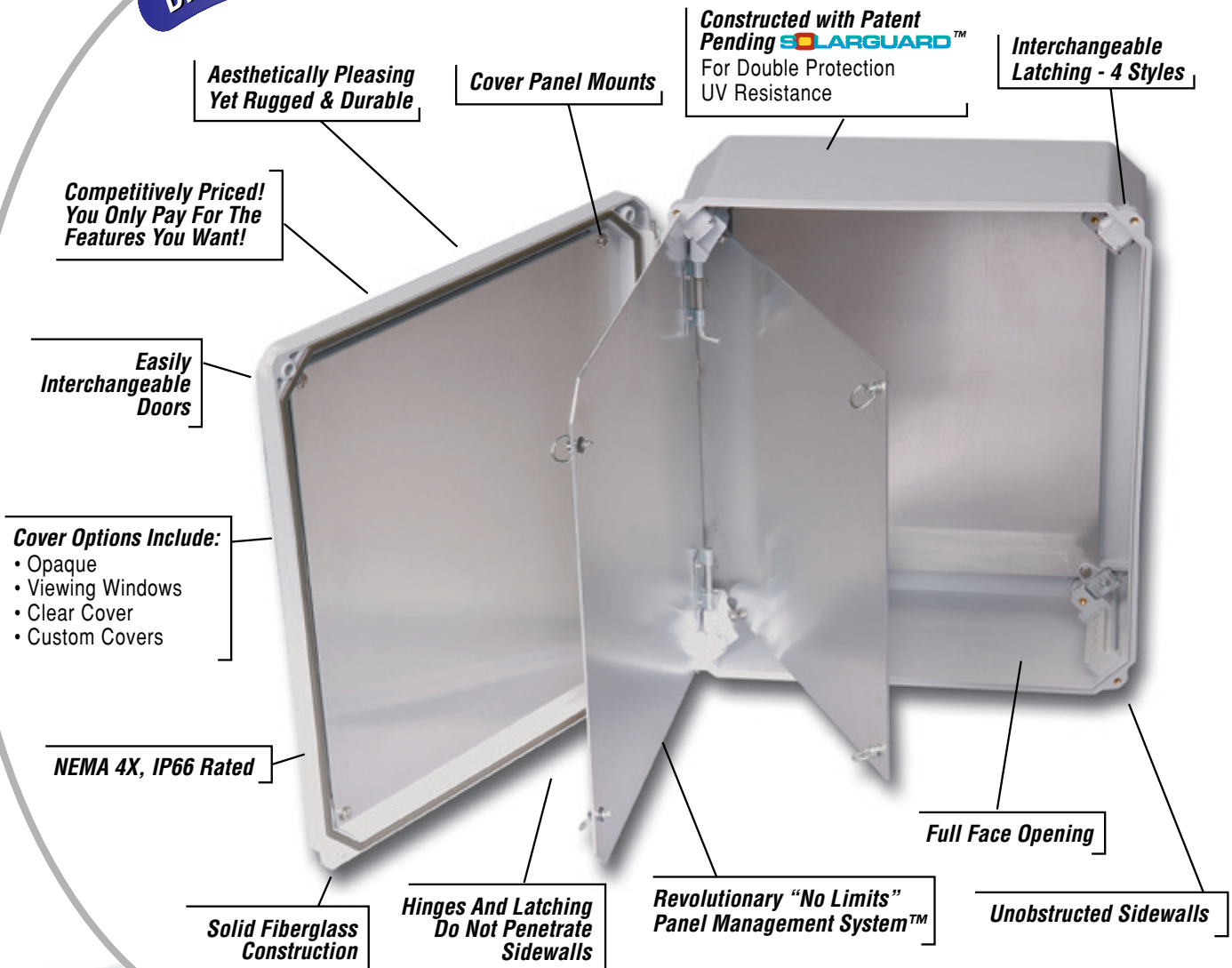
A Revolutionary New Enclosure Design
From Stahlin Enclosures. "It's What You Want It To Be!"

DiamondShield™ Series Featured Highlights

Aesthetically Pleasing Yet Rugged & Durable

Cover Panel Mounts

Constructed with Patent Pending SOLARGUARD™ For Double Protection UV Resistance

Interchangeable Latching - 4 Styles

Competitively Priced! You Only Pay For The Features You Want!

Easily Interchangeable Doors

Cover Options Include:
- Opaque
- Viewing Windows
- Clear Cover
- Custom Covers

NEMA 4X, IP66 Rated

Full Face Opening

Solid Fiberglass Construction

Hinges And Latching Do Not Penetrate Sidewalls

Revolutionary "No Limits" Panel Management System™

Unobstructed Sidewalls

STAHLIN

Stahlin Non-Metallic Enclosures
500 Maple Street
Belding, MI 48809

Phone: 616-794-0700
Fax: 616-794-3378
Website: www.stahlin.com

DiamondShield™

DiamondShield™: Featuring 10 sizes
ranging from 6x6x4 to 20x16x10 inches...
and encompassing more than 150
configuration opportunities...

DiamondShield™ meets or exceeds all
applicable IEC, NEMA, UL and CSA ratings…
to UL/NEMA 4X, IEC IP 66.

DiamondShield™ Fiberglass Electrical Enclosures

Unique. Reliable. Flexible. Revolutionary.

It's What You Want It To Be!

Just imagine ... an enclosure system that truly can be what you want...and need...it to be! Today, that enclosure system is a reality...with **DiamondShield™**, from Stahlin Non-Metallic Enclosures.

The revolutionary design of **DiamondShield™** provides a one-of-a-kind enclosure architecture that can range from "bare bones" basic yet durable simplicity to a highly customized, sophisticated protective structure.

Go From This!

To This!

What REALLY Makes DiamondShield™ Different?

Featuring 10 sizes ranging from 6x6x4 to 20x16x10 inches... and encompassing more than 150 configuration opportunities... **DiamondShield**™ differentiates itself from all other available enclosure options because of its:

• Proprietary material featuring Patent Pending Double Protection SolarGuard™.

• Patent pending, revolutionary design concept.

• Interchangeable, non-penetrating hardware including covers...hinges...latches..

• Remarkable "No Limits" Panel Management System™.

• Clean, contemporary appearance combined with rugged, reliable performance.

Attractive Aesthetics....No Penetrating Hardware...Tongue & Groove Gasketing...Interchangeable Hardware...Interchangeable Covers...Revolutionary Panel Management System™.

The pioneering design of **DiamondShield**™ allows for maximum flexibility in the use of the enclosure…every cubic inch of the interior volume is easily available and thoroughly protected!

DiamondShield™ meets or exceeds all applicable IEC, NEMA, UL and CSA ratings… to UL/NEMA 4X, IEC IP 66.

Want more good news?

DiamondShield™ is highly cost-competitive with all other major non-metallic and metallic alternatives such as stainless steel, aluminum and carbon steel.

With **DiamondShield**™ you get more...you don't pay more! Plus… you only pay for what you want. That's flexibility working for you not against you. Why pay for something you don't need?

Beautiful Design

No Penetrating Hardware

Panel Management

Interchangeable Covers

Stahlin's Revolutionary Panel Management System™

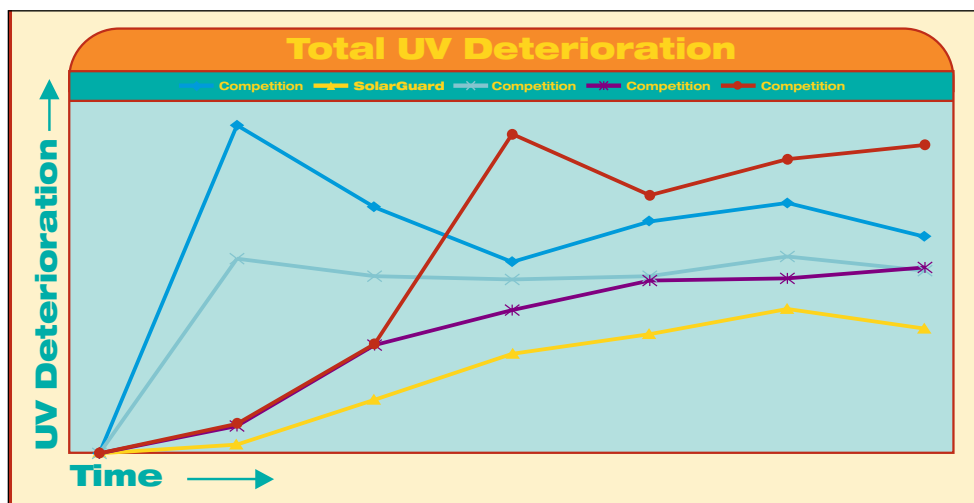| CP 1210 AL | BP1210 AL (or SS, FG, CS) | P 1210 ASAL | P 1210 STAL | P 1210 SWAL |

A variety of panel systems allow use of every cubic inch inside the enclosure, even panels that mount to the inside of the cover!

Stahlin Non-Metallic Enclosures • 500 Maple Street, Belding, MI 48809 • Phone: 616-794-0700 • Fax: 616-794-3378 • www.stahlin.com

DiamondShield™ Starts With The Material Difference Of SolarGuard™

Total UV Deterioration

Competition — SolarGuard — Competition — Competition — Competition

UV Deterioration

Time

All **DiamondShield**™ products are American-made...molded at Stahlin's world-class production facility in Belding Michigan. **DiamondShield**™ enclosures feature Stahlin's proprietary, patent pending double protection fiberglass formulation: SolarGuard™ developed in Stahlin's advanced FormRight Labs.
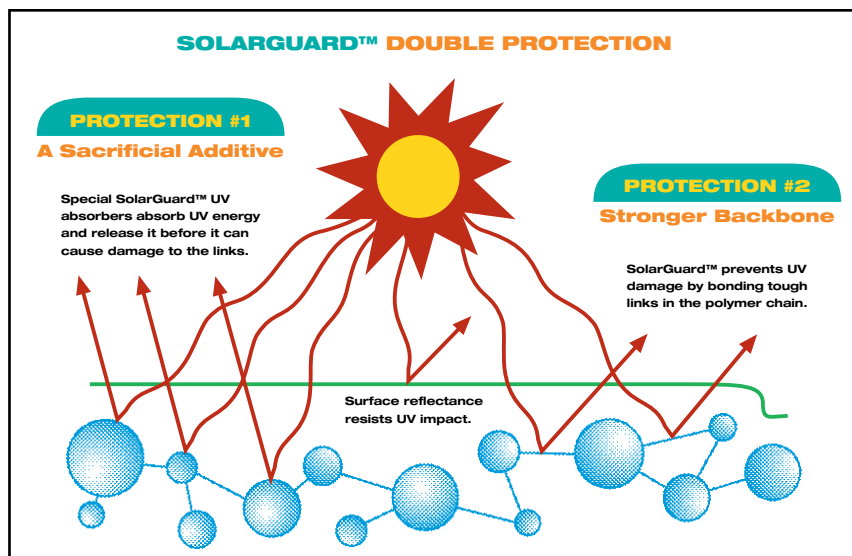
In independent third party comparison testing, SolarGuard™ outperformed other available SMC formulations by as much as 60% in its ability to retain gloss and color after exposure to concentrated UV light.

SolarGuard™ meets a NFPA No. 101 Class A flame spread index. Not only does SolarGuard™ meet UL 94 V0, but it also passes and is certified to UL 94 5V for exceptional fire retardancy.

How does SolarGuard™ do what it does?

Because of its chemical composition and special additives, SolarGuard™ is able to reduce the effects of UV degradation such as surface roughening and fiber blooming. This new proprietary SMC formulation technology significantly enhances the molecular bond strength and crosslinking that occur during the curing process. The result? An unsurpassed resistance to polymer degradation achieved by making it much more difficult for UV energy to attack molecular bonds of both primary chains and crosslinks.

SolarGuard™ provides a second layer of protection thereby giving you "double protection" through the use of a proprietary sacrificial additive that acts as a UV absorber.

SOLARGUARD™ DOUBLE PROTECTION

PROTECTION #1
A Sacrificial Additive

Special SolarGuard™ UV absorbers absorb UV energy and release it before it can cause damage to the links.

PROTECTION #2
Stronger Backbone

SolarGuard™ prevents UV damage by bonding tough links in the polymer chain.

Surface reflectance resists UV impact.

No other available enclosure brings you this level of UL 94 5V fire retardancy combined with significantly improved weathering, UV resistance, chemical resistance and safe, durable performance...all without adding cost to Stahlin's new **DiamondShield**™ electrical enclosures!

Stahlin Non-Metallic Enclosures • 500 Maple Street, Belding, MI 48809 • Phone: 616-794-0700 • Fax: 616-794-3378 • www.stahlin.com

The Design Difference Of DiamondShield™… Proof Through Performance.

**DiamondShield**™ is not just a pretty new face.

DiamondShield™ is, quite simply, the single best non-metallic enclosure choice for protection against chemical, temperature and other corrosive attacks.

*How does **DiamondShield**™ achieve this high magnitude of functionality?*

The Design Difference #1… Unobstructed Walls

First: **DiamondShield**™ provides unobstructed side walls with an open face (no flange) coupled with a hinge and latch system that doesn't protrude through the walls. In other words...non-penetrating hardware that eliminates the risk of compromising protection due to side penetrating rivets or screws for external hinges and/or latching. Among the many benefits to you:

• Maximized opening for panel installation and hand assembly within the enclosure.

• Minimized obstructions for assembly and maximized ease of use to insure that conduit can be connected at any point on the sidewall, or that ancillary devices such as alarms, sensors or lights can be mounted in required positions.

• Minimized gap areas for the accumulation of particulate... critical in applications such as food processing, chemical processing or general wash down areas.

• Integral hinge and secured latches do not penetrate through the enclosure side walls thus not providing for a potential leak path.
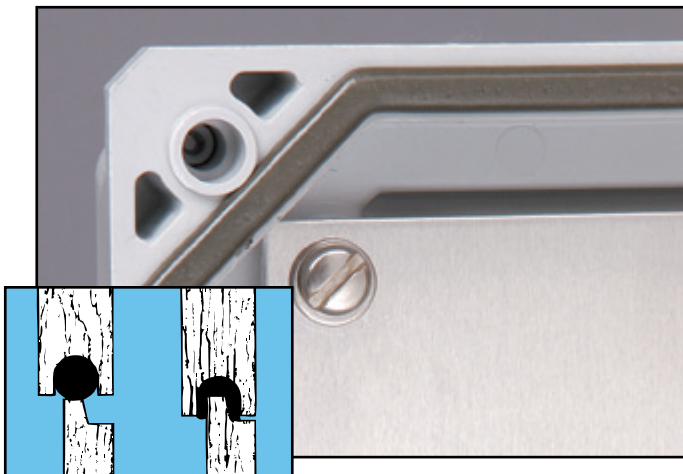
The Design Difference #2… Tongue & Groove Gasketing

Second: **DiamondShield**™ features a tongue & groove, two-part urethane gasketing system. Robotically applied to ensure accuracy and consistency, our gaskets stubbornly maintain the integrity of all **DiamondShield**™ enclosures. These seamless gaskets possess extremely high memory resulting in negligible compression set.

4

The Design Difference #3...

Interchangeable Covers & Hardware

Third: **DiamondShield**™ brings you the extreme flexibility of field interchangeable covers and hardware.

DiamondShield™ Cover Options (P/N Prefix):
- Opaque (DS)
- Flush Bonded Viewing Window (DSW)
- Clear Cover (DSCC)
- Custom

Latching (P/N Suffix):
- Screw (W, HW)
- Hinged Cover With Link Lock Latches (HLL)
- Hinge Cover With Pull Latches (HPL)
- Hinged Cover With Fiberglass/Stainless Steel Bail Wire Latch (FHL)

The Exceptional Architectural Freedom of DiamondShield™ Brings You These Many Benefits:

COVERS:
- Maximized ease-of-application and field use of **DiamondShield**™.
- Ease of separation of cover & base to allow for machining and modifications.
- No need to match a specific cover to a unique base.
- Capability of replacing cover or exchanging to a clear cover from an opaque cover.

LATCHES:
- Promotes ease of use resulting in labor reduction and cost savings.
- Stainless steel latches are padlockable for increased safety.
- Promotes end user's choice of addressing the manner of cover opening for security applications, allows a quick conversion from screw cover to lock-out cover.
- Restricts entry into enclosure to qualified personnel minimizes areas for particulate accumulation, softens visual lines, promotes absorption of shape into end user's custom design.

Ordering Information - Deriving Catalog Numbers			
Cvr Prefix	*Size ID*	*Latching Suffix*	*EXAMPLE*
DS	**60604**	**Latching Suffix = W**	**"DS60604W"**

DiamondShield Series Enclosures Cover and Latching Arrangements

SIZE ID	OPAQUE COVER (DS)	VIEWING WINDOW (DSW)	CLEAR COVER (DSCC)	CUSTOM MOLDED COVER	CUSTOM MOLDED COVER INSERT	W	HW	HPL	HLL	FHL
60604	✔	✔	✔	✔	N/A	✔	✔	✔	✔	✔
80604	✔	✔	✔	✔	N/A	✔	✔	✔	✔	✔
80804	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
100806	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
121006	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
141206	✔	✔	✔	✔	N/A	✔	✔	✔	✔	✔
141208	✔	✔	✔	✔	N/A	✔	✔	✔	✔	✔
161408	✔	✔	✔	✔	N/A	✔	✔	✔	✔	✔
181610	✔	✔	N/A	✔	N/A	✔	✔	✔	✔	✔
201610	✔	✔	N/A	✔	N/A	✔	✔	✔	✔	✔

OPAQUE

HW or W

DS121006W

HW Hinge, 2 screws or W 4 screws

VIEWING WINDOW

HLL

DSW121006W

Hinge with 2 link lock latches

CLEAR COVER

HPL

DSCC121006W

Hinge with 2 pull latches

CUSTOM

FHL
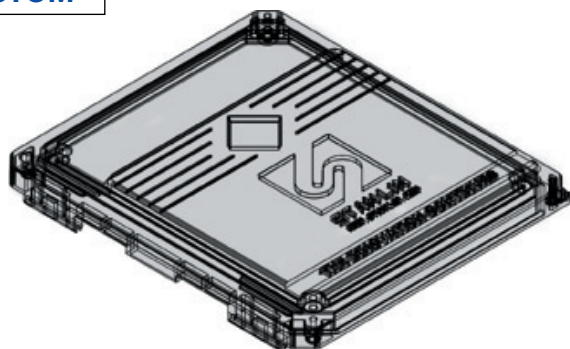
Customer Specified

Hinge with 2 fiberglass/stainless steel bail wire latches

Unsurpassed Panel Management System ™

Fourth: Stahlin's innovative "No-Limits" Panel Management System™ enables **DiamondShield**™ users to take maximum advantage of ALL enclosure space...including the inside of the cover!

- Back Panel
- Variable Height Stationary Panel
- Variable Height Swing Panel
- Dead Front Swing Panel
- Cover Panel
- Multiple Panels

The Pioneering Panel Management System™ of DiamondShield™ Brings You These Many Benefits:

- Full utilization of both space and design. All space within the enclosure can be accessed and utilized with minimal requirements for additional mounting hardware.
- Panel maneuverability at both the time of assembly and in actual field use.
- Optimized use and function of all usable space within the enclosure while assisting in the mounting of cover mounted devices, such as touchpads and printed circuit boards.

- Maximized visibility of panels that offer critical feedback, such as instrumentation, while preserving the integrity of the enclosure.
- Ability to meet unique visual requirements usually associated with a dead front panel.
- Ability to meet the needs for mounting surface at rear of enclosure.
- Ability to meet end users' design capabilities and field changes that would otherwise require major modification or costly disassembly.
- Ability to externally assemble, then "drop in" to the enclosure DIN rail mounted components, thereby minimizing assembly, modification and field servicing.
- Maximum surface area for pushbutton or touchpad layout. Maximizes end users' design possibilities.
- Ability to meet end users' requirements for the installation of isolated visibility or custom visual requirements.
- Offers restricted access to areas of adjustment and calibration.

BACK PANEL (BP)

- Traditional sized back panel
- Common industry mounting footprint
- Wide choice of material

BP1210AL

DEAD FRONT SWING PANEL (SWAL)

- 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

P1210SWAL

VARIABLE HEIGHT STATIONARY PANEL (STAL)

- 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

P1210STAL

VARIABLE HEIGHT SWING PANEL (ASAL)

- Mounts at any height in the enclosure base
- Hinged on one side, secured to the other
- Used in conjunction with corner mounting posts

P1210ASAL

COVER PANEL (CP)

- Stationary panel that mounts to the inside on the enclosure cover.

CP1210AL

USE MULTIPLE PANELS

Stahlin Non-Metallic Enclosures • 500 Maple Street, Belding, MI 48809 • Phone: 616-794-0700 • Fax: 616-794-3378 • www.stahlin.com

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com

8

The Design Difference #5… Mounting Versatility

Fifth: DiamondShield™ provides these options for mounting:

• Brass inserts allow mount of an enclosure to any flat surface with a through hole or to any strut system.

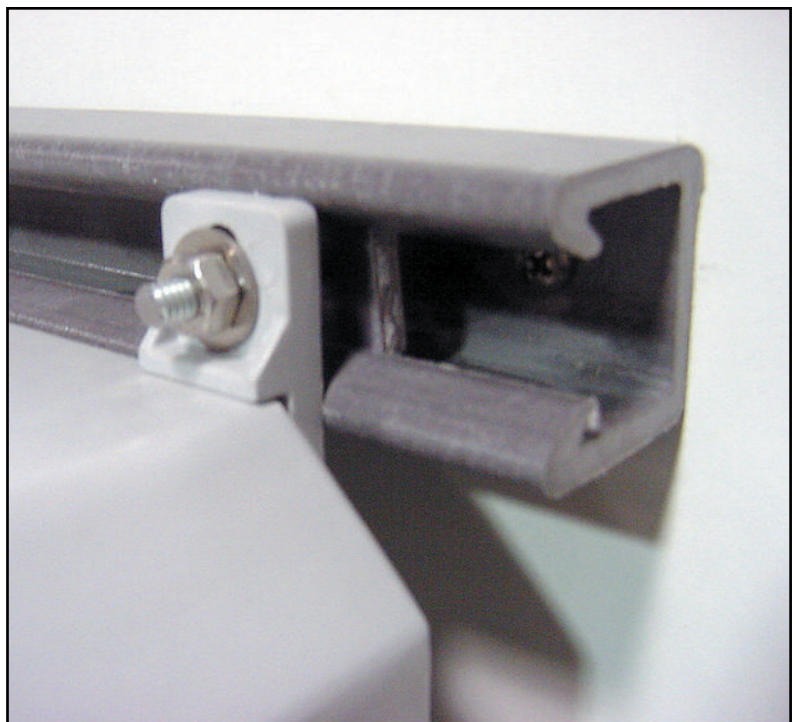• Optional mounting Feet (DSMGFTKIT)

Optional Mounting Feet

Flush Threaded Insert

Installed Mounting Foot

Strut Mount

*Other features of DiamondShield™
flexibility for in-the-field time
and cost savings:*

--- Ease of changing or replacing covers.

--- Ease of changing locks.

--- Flexibility for adding panels
   "down-the-road."

Cover Options

Hinged Cover with Screw Down Securing
HW Configuration

Screw Down Cover
W

HPL
Pull Latch

HLL
Link Lock Latch

FHL
Fiberglass and Bail
Wire Latch

DiamondShield™

The Difference Of Proof Through Performance

Tougher Than Thermoplastics!

Right Reason #1: Corrosion Resistance

• Stahlin's fiberglass provides better acidic and alkaline-based environmental corrosion resistance than plastics such as polycarbonate…and superior solvent-based corrosion resistance to materials including ABS.

Right Reason #2: Chemical Resistance

• Stahlin's fiberglass provides chemical resistance that exceeds all other major non-metallic alternatives including PVC.

Right Reason #3: Impact Resistance

• Stahlin's fiberglass provides impact resistance that is greater than that of ABS and PVC.

Right Reason #4: Physical Strength

• Stahlin's fiberglass provides relative physical strength that exceeds ABS and PVC.

Right Reason #5: UV Resistance

• Stahlin's fiberglass is excellent with inhibitors and colors, surpassing the UV resistance performance of ABS and polycarbonates.
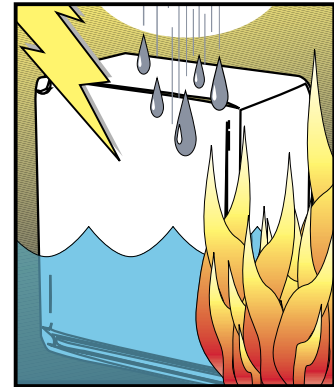
Impact Resistance
& Physical Strength
Corrosion Resistance
Chemical Resistance
UV Resistance

It's no wonder that DiamondShield can meet or exceed these many industry and governmental standards:

DiamondShield Industry Standards - All Sizes & Variations

UL/cUL 50/508	File E64358	Type 1, 3, 3s, 12, 13, 4X
NEMA Std. 250	N/A	Type 1, 3, 3s, 12, 13, 4X
CSA Std. C22.2	File LR069014	Type 1, 3, 3s, 12, 13, 4X
IEC 60529	N/A	IP66

Temperature Range	-40° F to 250° F
Flammability	UL94 V0, 5V
Clear Cover Flammability Rating	UL94 V-2, HB
Self Extinguishing	Non-Halogenated, non-flame propagating
Chemical Resistance	Excellent, see main catalog or web site for details
NFPA No. 101 Flame Spread	Class A (1)

Stahlin Non-Metallic Enclosures • 500 Maple Street, Belding, MI 48809 • Phone: 616-794-0700 • Fax: 616-794-3378 • www.stahlin.com

11

Tough Enough To Provide Maximum Protection and Resistance.

Flame

Smoke

Corrosion

Tough Enough To Beat Mother Nature!

Water

UV Protection

Dust

STAHLIN® FIBERGLASS VERSUS METALLIC

Why Fiberglass Instead of Metallics?

Right Reason #1: Corrosion & Chemical Resistance

• Stahlin's fiberglass provides excellent corrosion and chemical resistance compared to metallics such as aluminum and painted or galvanized steel…and is very comparable to that of stainless steel. With fiberglass, enclosure maintenance is virtually eliminated.

Right Reason #2: Electrical Insulation

• Stahlin's fiberglass provides optimal dielectric strength as an electrical insulator versus the electrical conductivity of all metals.

Right Reason #3: Cost Savings

• Stahlin's fiberglass is significantly more cost effective than stainless steel and is very competitive with other metallics.

Right Reason #4: Ease-Of-Customizing

• Stahlin's fiberglass is extremely easy to drill, punch and cut compared to all metals.

Right Reason #5: Ease-Of-Handling

• Stahlin's fiberglass enclosures are lightweight and easy to handle compared to metal enclosures.

Stahlin Non-Metallic Enclosures • 500 Maple Street, Belding, MI 48809 • Phone: 616-794-0700 • Fax: 616-794-3378 • www.stahlin.com

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com

12

Need Factory Modifications? No Problem!   ModRight™

DiamondShield™ Is Part Of Stahlin's **ModRight**™ Enclosure Modification Program!

ModRight™ offers you the opportunity to benefit from Stahlin's inhouse capabilities for achieving accurate, cost-effective enclosure modifications.

The program provides diverse choices for factory customizing of enclosures including cutouts, holes, windows, vents, countersinking, latches & locks, and non-standard sizing. ModRight also showcases Stahlin's computer-controlled manufacturing systems, panel management expertise, custom molding options, and specialty areas such as EMI & RFI shielding. Through the ModRight program, Stahlin offers more than 20 standard colors and the opportunity to computer match any custom supplied color sample. Graphic interfaces including silk-screening and decals are also available.
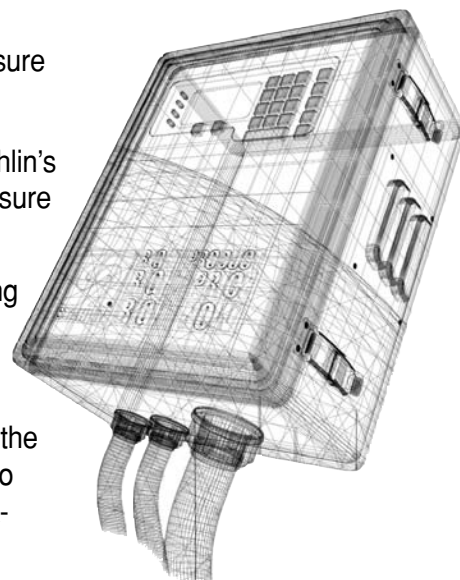
Why should enclosure users consider a factory-based modification program such as ModRight instead of doing their own modifications?

Our automated factory exceeds even the most elaborate field modification capabilities. We have made extensive investments in sophisticated computer-controlled equipment all for the purpose of ensuring consistency and accuracy in modifications. With factory-performed modifications we assume all responsibility for jobs done right and delivered to customers ready to use out-of-the-box.

Enclosure Specific Modifications

Custom Molded Colors

A key support to Stahlin's ModRight™ program is the value added feature of CostRight which provides website accessibility, including modifiable engineered drawings and quick cost quotations through the company's website at: **www.stahlin.com**

Stahlin Enclosures... Added Value

www.stahlin.com

Other World-Class Products From Stahlin Non-Metallic Enclosures.

Classic Series	Classic Window Series	Control Series	Disconnect Series	JW Series	J Series

Push Button	NewSentry	Trough & Wireway	DuraBoxx	NightHawk	ColorGuard
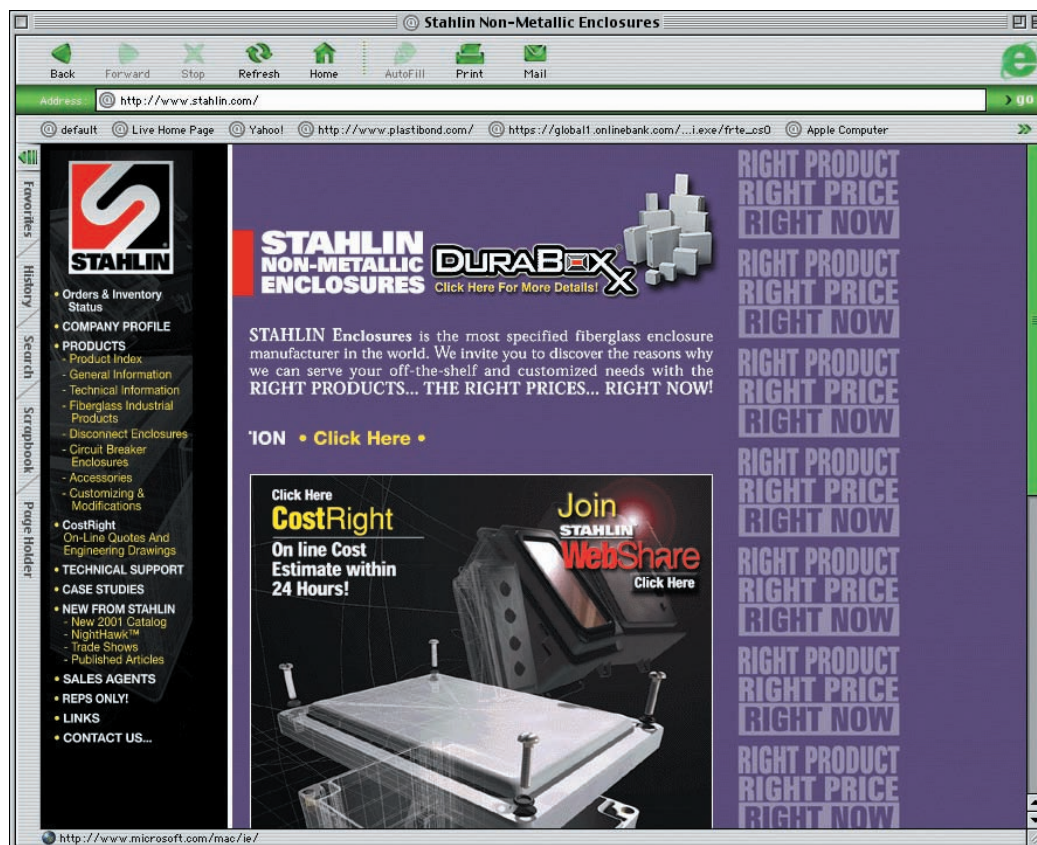
For More Information, Visit Our Website At: www.stahlin.com

Stahlin Non-Metallic Enclosures • 500 Maple Street, Belding, MI 48809 • Phone: 616-794-0700 • Fax: 616-794-3378 • www.stahlin.com

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com

14

DiamondShield™ Dimensions and P/N Tables
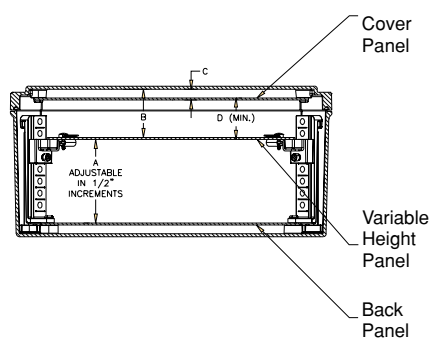
REAR VIEW

SECTION B-B

COVER REMOVED

SECTION A-A
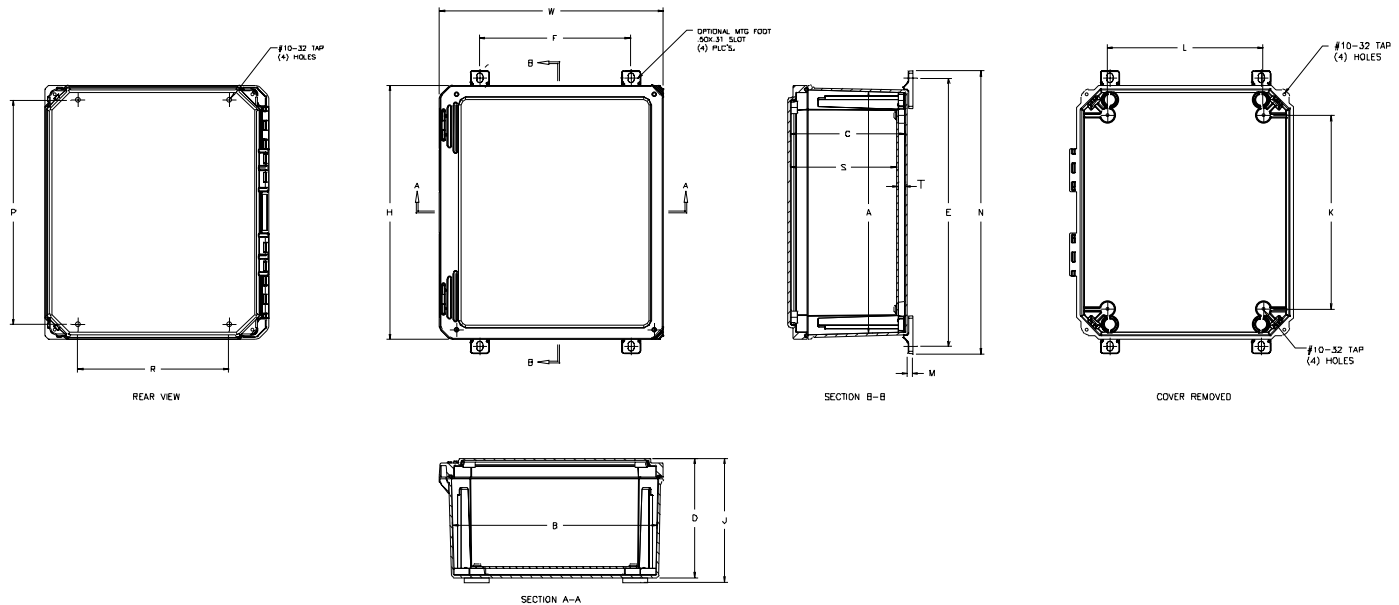
DiamondShield Series Enclosures

SIZE ID NUMBER	OVERALL H X W X D	INSIDE A X B X C	MOUNTING P X R	K	L	S	T	OPTL. MTG FEET E x F	N	J	M	WEIGHT	BACK PANEL
60604	7.41 x 7.79 x 4.31 (188.3 x 197.9 x 109.5)	6.77 x 6.77 x 4.06 (171.9 x 171.9 x 103.2)	5.93 x 4.00 (150.6 x 101.6)	4.25 (108)	4.25 (108)	3.60 (91.5)	.38 (9.6)	8.24 x 4.00 (209.2 x 101.6)	9.02 (229.0)	4.56 (115.8)	.25 (6.35)	2.5 lbs	BP-66
80604	9.41 x 7.79 x 4.31 (239.1 x 197.9 x 109.5)	8.77 x 6.77 x 4.06 (222.7 x 171.9 x 103.2)	7.91 x 4.00 (200.9 x 101.6)	6.25 (159)	4.25 (108)	3.60 (91.5)	.38 (9.6)	10.21 x 4.00 (259.3 x 101.6)	10.98 (279.0)	4.56 (115.8)	.25 (6.35)	3.0 lbs	BP-86
80804	9.39 x 9.76 x 4.31 (238.5 x 248.0 x 109.5)	8.74 x 8.74 x 4.06 (222.1 x 222.1 x 103.2)	7.91 x 6.00 (200.9 x 152.4)	6.25 (159)	6.25 (159)	3.60 (91.5)	.38 (9.6)	10.21 x 6.00 (259.3 x 152.4)	10.98 (279.0)	4.56 (6.35)	.25 (115.8)	3.5lbs	BP-88
100806	11.42 x 9.79 x 6.31 (290.1 x 248.6 x 160.3)	10.73 x 8.73 x 6.06 (272.5 x 221.7 x 153.9)	9.89 x 6.00 (251.2 x 152.4)	8.25 (210)	6.25 (159)	5.60 (142.3)	.38 (9.6)	12.19 x 6.00 (309.6 x 152.4)	12.96 (329.3)	6.56 (166.6)	.25 (6.35)	4.5 lbs	BP-1008
121006	13.45 x 11.83 x 6.31 (341.6 x 300.5 x 160.3)	12.69 x 10.69 x 6.06 (322.3 x 271.5 x 153.9)	11.88 x 8.00 (301.7 x 203.2)	10.25 (260)	8.25 (210)	5.60 (142.3)	.38 (9.6)	14.18 x 8.00 (360.2 x 203.2)	14.95 (379.7)	6.56 (166.6)	.25 (6.35)	6.0 lbs	BP-1210
141206	15.49 x 13.86 x 6.34 (393.4 x 352.0 x 161.0)	14.72 x 12.72 x 6.06 (373.9 x 323.1 x 153.9)	13.91 x 10.00 (353.3 x 254.0)	12.25 (311)	10.25 (260)	5.60 (142.3)	.38 (9.6)	16.21 x 10.00 (411.7 x 254.0)	16.98 (431.4)	6.59 (167.4)	.25 (6.35)	8.0 lbs	BP-1412
141208	15.49 x 13.86 x 8.34 (393.4 x 352.0 x 211.8)	14.66 x 12.66 x 8.06 (372.4 x 321.6 x 204.7)	13.88 x 10.00 (352.5 x 254.0)	12.25 (311)	10.25 (260)	7.60 (193.2)	.38 (9.6)	16.19 x 10.00 (411.2 x 254.0)	16.96 (430.9)	8.59 (218.2)	.25 (6.35)	9.5 lbs	BP-1412
161408	17.58 x 15.96 x 8.34 (446.6 x 405.4 x 211.8)	16.69 x 14.69 x 8.06 (424.0 x 373.1 x 204.7)	15.96 x 12.00 (405.4 x 304.8)	14.25 (362)	12.25 (311)	7.60 (193.2)	.38 (9.6)	18.26 x 12.00 (464.0 x 304.8)	19.04 (483.5)	8.59 (218.2)	.25 (6.35)	11.5 lbs	BP-1614
181610	19.77 x 18.15 x 10.34 (502.2 x 461.0 x 262.6)	18.63 x 16.63 x 10.06 (473.2 x 422.4 x 255.5)	17.94 x 14.00 (455.6 x 355.6)	16.25 (413)	14.25 (362)	9.60 (243.9)	.38 (9.6)	20.24 x 14.00 (514.3 x 355.6)	21.02 (533.8)	10.59 (268.9)	.25 (6.35)	16.0 lbs	BP-1816
201610	21.79 x 18.16 x 10.34 (553.5 x 4612 x 262.6)	20.63 x 16.63 x 10.06 (524.0 x 422.4 x 255.5)	19.96 x 14.00 (506.9 x 355.6)	18.25 (463)	14.25 (362)	9.59 (243.7)	.38 (9.6)	22.26 x 14.00 (565.6 x 355.6)	23.04 (585.1)	10.59 (268.9)	.25 (6.35)	17.5 lbs	BP-J2016

All measures are in inches, items in parentheses are in millimeters.
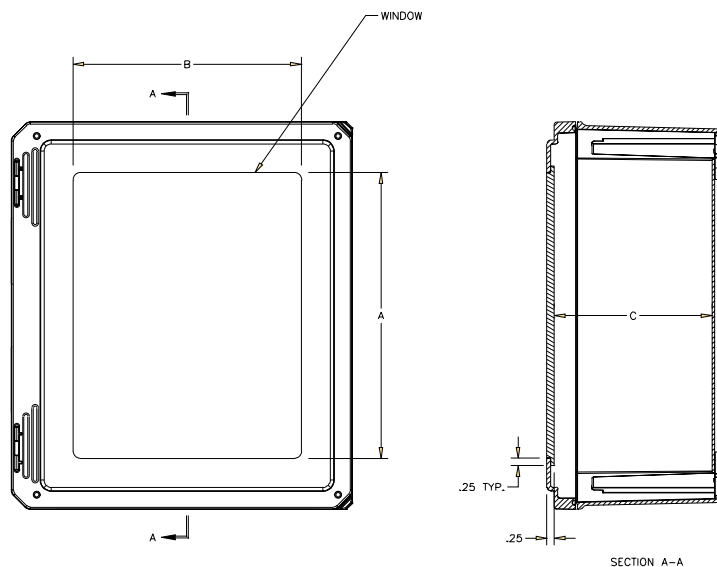
DiamondShield™ Dimensions and P/N Tables

Cover Panel

C

B

D (MIN.)

A
ADJUSTABLE
IN 1/2"
INCREMENTS

Variable Height Panel

Back Panel

DiamondShield™ Series Enclosures Panel Management System™

SIZE ID	FIXED PANEL (MIN) A		SWING PANEL (MIN) A		(MAX) A	OPAQUE CVR B		CLEAR CVR B		C	D (MIN)
60604	1.50	(38.1)	2.00	(50.08)	2.50 (63.50)	1.025	(26.03)	1.025	(26.03)	.375 (9.52)	.57 (14.48)
80604	1.50	(38.1)	2.00	(50.08)	2.50 (63.50)	1.025	(26.03)	1.025	(26.03)	.375 (9.52)	.57 (14.48)
80804	1.50	(38.1)	2.00	(50.08)	2.50 (63.50)	1.025	(26.03)	1.025	(26.03)	.375 (9.52)	.57 (14.48)
100806	1.50	(38.1)	2.00	(50.08)	4.50 (114.30)	1.025	(26.03)	1.025	(26.03)	.375 (9.52)	.57 (14.48)
121006	1.50	(38.1)	2.00	(50.08)	4.50 (114.30)	1.025	(26.03)	0.994	(25.24)	.375 (9.52)	.57 (14.48)
141206	1.50	(38.1)	2.00	(50.08)	4.50 (114.30)	1.025	(26.03)	0.963	(24.44)	.375 (9.52)	.57 (14.48)
141208	1.50	(38.1)	2.00	(50.08)	6.50 (165.1)	1.025	(26.03)	0.963	(24.44)	.375 (9.52)	.57 (14.48)
161408	1.50	(38.1)	2.00	(50.08)	6.50 (165.1)	1.025	(26.03)	0.963	(24.44)	.375 (9.52)	.57 (14.48)
181610	1.50	(38.1)	2.00	(50.08)	8.50 (215.90)	1.025	(26.03)	N/A		.375 (9.52)	.57 (14.48)
201610	1.50	(38.1)	2.00	(50.08)	8.50 (215.90)	1.025	(26.03)	N/A		.375 (9.52)	.57 (14.48)

Note: Swing and stationary panels adjust in 1/2" increments
"C" not applicable for clear cover
Cover panel kit not available for clear cover options

DiamondShield™ Cover Dimensions and P/N Tables

Viewing Window Cover (DSW)

PART ID	A	B	C
DSW60604	4.25 (107.95)	4.25 (107.95)	3.48 (88.26)
DSW80604	6.25 (158.75)	4.25 (107.95)	3.48 (88.26)
DSW80804	6.25 (158.75)	6.25 (158.75)	3.48 (88.26)
DSW100806	8.25 (209.55)	6.25 (158.75)	5.48 (139.19)
DSW121006	10.25 (260.35)	8.25 (209.55)	5.48 (139.19)
DSW141206	12.25 (311.15)	10.25 (260.35)	5.48 (139.19)
DSW141208	12.25 (311.15)	10.25 (260.35)	7.48 (189.99)
DSW161408	14.25 (361.95)	12.25 (311.15)	7.48 (189.99)
DSW181610	16.25 (412.75)	14.25 (361.95)	9.48 (240.79)
DSW201610	18.25 (463.55)	14.25 (361.95)	9.46 (240.28)

All measures are in inches, items in parentheses are in millimeters.

WINDOW

B

A

A

A

A

SECTION A–A

.25 TYP.

.25

C

DiamondShield™ Panel Management System™

HINGE AREA

Ø.250
2 PLC,S.
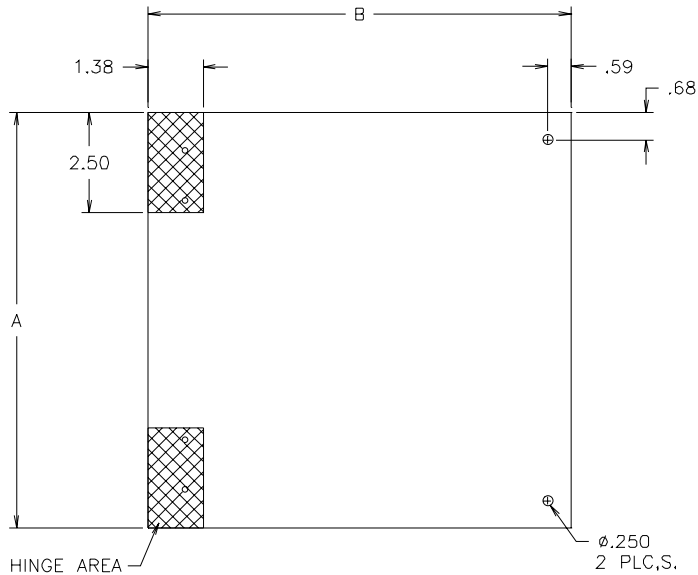
Variable Height Swing Panel

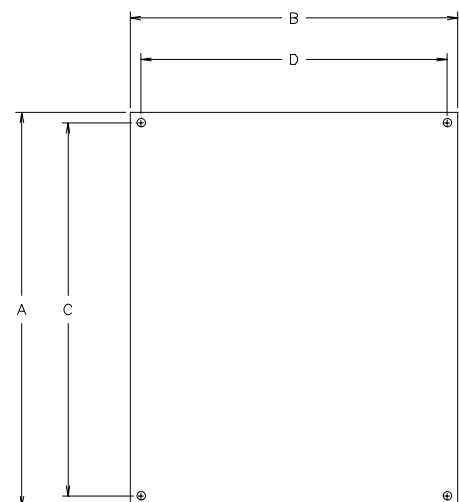| PART NUMBER	A	B	PANEL THK.	PANEL TYPE
P806ASAL	6.38 (162)	6.56 (1167)	.080 (2)	Flat
P808ASAL	6.38 (162)	8.56 (217)	.080 (2)	Flat
P1008ASAL	8.38 (213)	8.56 (217)	.080 (2)	Flat
P1210ASAL	10.38 (264)	10.56 (268)	.080 (2)	Flat
P1412ASAL	12.38 (314)	12.56 (319)	.080 (2)	Flat
P1614ASAL	14.38 (365)	14.56 (370)	.080 (2)	Flat
P1816ASAL	16.38 (416)	16.56 (421)	.080 (2)	Flat
P2016ASAL	18.38 (467)	16.56 (421)	.080 (2)	Flat

Caution:Metric units are for reference;do not convert.

Cover Panel Dimensions

PART NUMBER	A	B	C	D	PANEL THK.	PANEL TYPE	HOLE DIA.	#OF HOLES
CP606AL	5.64 (143)	5.64 (143)	5.02 (127)	5.02 (127)	.080 (2)	Flat	.25 (6)	4
CP806AL	7.68 (195)	5.64 (143)	7.05 (179)	5.02 (127)	.080 (2)	Flat	.25 (6)	4
CP808AL	7.68 (195)	7.68 (195)	7.05 (179)	7.05 (179)	.080 (2)	Flat	.25 (6)	4
CP1008AL	9.71 (247)	7.71 (196)	9.08 (231)	7.08 (180)	.080 (2)	Flat	.25 (6)	4
CP1210AL	11.74 (298)	9.74 (247)	11.12 (282)	9.12 (232)	.080 (2)	Flat	.25 (6)	4
CP1412AL	13.78 (350)	11.78 (299)	13.15 (334)	11.15 (283)	.080 (2)	Flat	.25 (6)	4
CP1614AL	15.81 (402)	13.81 (351)	15.18 (386)	13.18 (334)	.080 (2)	Flat	.25 (6)	4
CP1816AL	17.94 (456)	15.94 (405)	17.31 (440)	15.31 (389)	.080 (2)	Flat	.25 (6)	4
CP2016AL	19.76 (502)	15.76 (400)	19.13 (486)	15.13 (384)	.080 (2)	Flat	.25 (6)	4

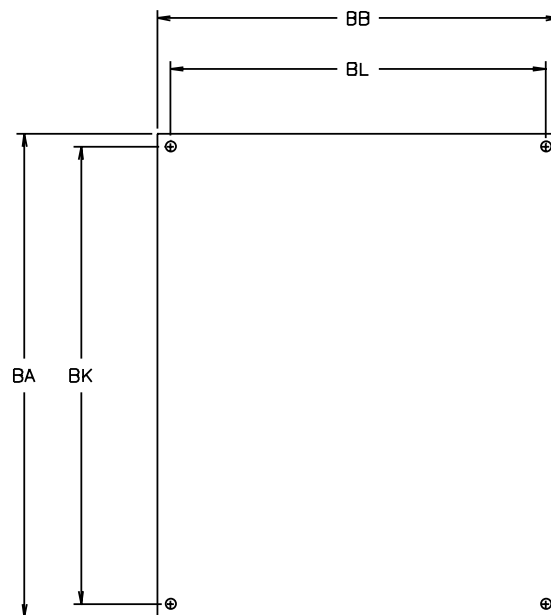Caution:Metric units are for reference;do not convert.
Note: Cover panel kit includes cover panel and mounting hardware.

Stahlin Non-Metallic Enclosures • 500 Maple Street, Belding, MI 48809 • Phone: 616-794-0700 • Fax: 616-794-3378 • www.stahlin.com

17

Back Panel Dimensions

PART NUMBER	BA	BB	BK	BL	PANEL THK.	PANEL TYPE	HOLE DIA.	#OF HOLES
BP66	4.88 (124)	4.88 (124)	4.25 (108)	4.25 (108)	.080 (2)	Flat	.25 (6)	4
BP86	6.88 (175)	4.88 (124)	6.25 (159)	4.25 (108)	.080 (2)	Flat	.25 (6)	4
BP88	6.88 (175)	6.88 (175)	6.25 (159)	6.25 (159)	.080 (2)	Flat	.25 (6)	4
BP108	8.88 (225)	6.88 (175)	8.25 (210)	6.25 (159)	.080 (2)	Flat	.25 (6)	4
BP1210	10.88 (276)	8.88 (225)	10.25 (260)	8.25 (210)	.080 (2)	Flat	.25 (6)	4
BP1412	12.88 (327)	10.88 (276)	12.25 (311)	10.25 (260)	.080 (2)	Flat	.25 (6)	4
BP1614	14.88 (378)	12.88 (327)	14.25 (362)	12.25 (311)	.080 (2)	Flat	.25 (6)	4
BP1816	16.88 (429)	14.88 (378)	16.25 (413)	14.25 (362)	.080 (2)	Flat	.25 (6)	4
BPJ2016	18.88 (480)	14.88 (378)	18.25 (464)	14.25 (362)	.090 (2)	Flat	.25 (6)	4

Caution:Metric units are for reference;do not convert.
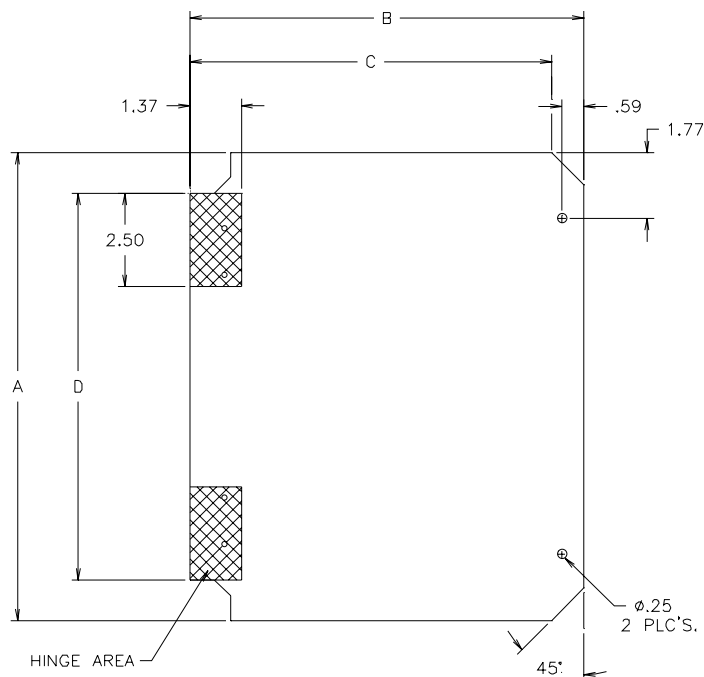Suffix - Available materials
AL - Aluminum
CS - Painted Carbon Steel
SS - Stainless Steel
FG - Fiberglass
Example: BP1210AL

Dead Front Swing Panel Dimensions

PART NUMBER	A	B	C	D	PANEL THK.	PANEL TYPE
P806SWAL	8.56 (217)	6.56 (167)	6.37 (162)	5.70 (145)	.080 (2)	Flat
P808SWAL	8.56 (217)	8.56 (217)	6.37 (162)	7.70 (196)	.080 (2)	Flat
P1008SWAL	10.56 (268)	8.56 (217)	3.37 (213)	7.70 (196)	.080 (2)	Flat
P1210SWAL	12.56 (319)	10.56 (268)	10.37 (263)	9.70 (246)	.080 (2)	Flat
P1412SWAL	14.56 (370)	12.56 (319)	12.37 (314)	11.70 (297)	.080 (2)	Flat
P1614SWAL	16.56 (421)	14.56 (370)	14.37 (365)	15.57 (399)	.080 (2)	Flat
P1816SWAL	18.56 (471)	16.56 (421)	16.37 (467)	15.70 (399)	.080 (2)	Flat
P2016SWAL	20.56 (522)	16.56 (421)	18.37 (467)	15.70 (399)	.080 (2)	Flat

Caution: Metric units are for reference;do not convert.

HINGE AREA

45°

ø.25
2 PLC'S.

DiamondShield™ Panel Kits & Accessories
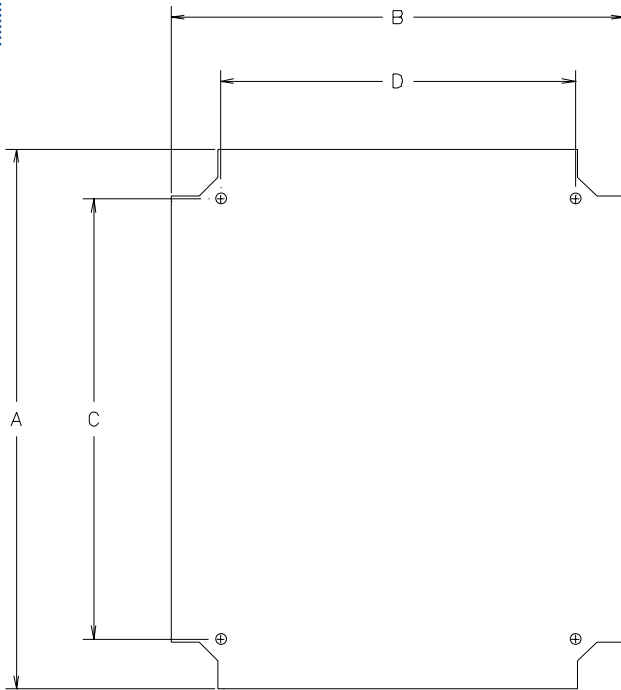
Variable Height Stationary Panel Dimensions

PART NUMBER	A	B	C	D	PANEL THK.	PANEL TYPE	HOLE DIA.	#OF HOLES
P606STAL	6.56 (167)	6.56 (167)	4.25 (108)	4.25 (108)	.080 (2)	Flat	.25 (6)	4
P806STAL	8.56 (217)	6.56 (167)	6.25 (159)	4.25 (108)	.080 (2)	Flat	.25 (6)	4
P808STAL	8.56 (217)	8.56 (217)	6.25 (159)	6.25 (159)	.080 (2)	Flat	.25 (6)	4
P1008STAL	10.56 (268)	8.56 (217)	8.25 (210)	6.25 (159)	.080 (2)	Flat	.25 (6)	4
P1210STAL	12.56 (319)	0.56 (268)	10.25 (210)	8.25 (260)	.080 (2)	Flat	.25 (6)	4
P1412STAL	14.56 (370)	12.56 (319)	12.25 (311)	10.25 (260)	.080 (2)	Flat	.25 (6)	4
P1614STAL	16.56 (421)	14.56 (370)	14.25 (362)	12.25 (311)	.080 (2)	Flat	.25 (6)	4
P1816STAL	18.56 (471)	16.56 (421)	16.25 (413)	14.25 (362)	.080 (2)	Flat	.25 (6)	4
P2016STAL	20.56 (522)	16.56 (421)	18.25 (464)	14.25 (362)	.080 (2)	Flat	.25 (6)	4

Caution: Metric units are for reference; do not convert.
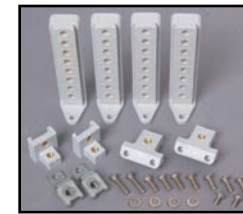
Panel Kits - Accessories Only, Panels NOT Included

SIZE ID	STATIONARY PANEL ACCESSORY KIT	STATIONARY PANEL BRACKET KIT	SWING PANEL ACCESSORY KIT	SWING PANEL BRACKET KIT	CORNER POST KIT
60604	DS4PKA	DSAPBKT	N/A	N/A	DS4POST
80604	DS4PKA	DSAPBKT	DS4SPKA	DSSPBKT	DS4POST
80804	DS4PKA	DSAPBKT	DS4SPKA	DSSPBKT	DS4POST
100806	DS6PKA	DSAPBKT	DS6SPKA	DSSPBKT	DS6POST
121006	DS6PKA	DSAPBKT	DS6SPKA	DSSPBKT	DS6POST
141206	DS6PKA	DSAPBKT	DS6SPKA	DSSPBKT	DS6POST
141208	DS8PKA	DSAPBKT	DS8SPKA	DSSPBKT	DS8POST
161408	DS8PKA	DSAPBKT	DS8SPKA	DSSPBKT	DS8POST
181610	DS10PKA	DSAPBKT	DS10SPKA	DSSPBKT	DS10POST
201610	DS10PKA	DSAPBKT	DS10SPKA	DSSPBKT	DS10POST

Stationary Panel Bracket Kit

Stationary Panel Accessory Kit

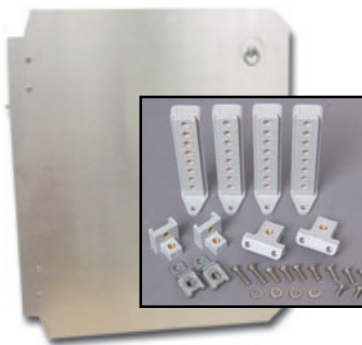Swing Panel Accessory Kit

Swing Panel Bracket Kit

Corner Post Kit

**Variable Height Back Panel
& Stationary Panel
Accessory Kit**

**Dead Front Swing Panel
& Swing Panel
Accessory Kit**

**Variable Height Swing Panel
& Swing Panel
Accessory Kit**

**Variable Height Stationary
Panel & Stationary Panel
Accessory Kit**

Panel And Accessory Combination Kits, Includes Panel

SIZE ID	DEAD FRONT SWING PANEL & ACCESS. KIT	VARIABLE HEIGHT SWING PANEL & ACCESS. KIT	VARIABLE HEIGHT STATIONARY PNL & ACCESS. KIT	VARIABLE HEIGHT BACK PNL & ACCESS. KIT
60604	N/A	N/A	DS60604PKA	DS60604BPKA
80604	DS80604SPK	DS80604SPKA	DS80604PKA	DS80604BPKA
80804	DS80804SPK	DS80804SPKA	DS80804PKA	DS80804BPKA
100806	DS100806SPK	DS100806SPKA	DS100806PKA	DS100806BPKA
121006	DS121006SPK	DS121006SPKA	DS121006PKA	DS121006BPKA
141206	DS141206SPK	DS141206SPKA	DS141206PKA	DS141206BPKA
141208	DS141208SPK	DS141208SPKA	DS141208PKA	DS141208BPKA
161408	DS161408SPK	DS161408SPKA	DS161408PKA	DS161408BPKA
181610	DS181610SPK	DS181610SPKA	DS181610PKA	DS181610BPKA
201610	DS201610SPK	DS201610SPKA	DS201610PKA	DS201610BPKA

Mounting Foot Kit

Link Lock Latch Kit

Fiberglass Wire Latch Kit

Pull Latch Kit

**Cover
Screw Kit**

Hinge Kit

Other Accessory Kits

SIZE ID	MTG. FOOT KIT	HINGE HOLE PLUG	OPAQUE COVER SCREW KIT	CLEAR COVER SCREW KIT	FIBERGLASS WIRE LATCH KIT	LINK LOCK LATCH KIT	PULL LATCH KIT	HINGE KIT
60604	DSMGFKIT	DS3HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS3HINGEKIT
80604	DSMGFKIT	DS4HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS4HINGEKIT
80804	DSMGFKIT	DS4HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS4HINGEKIT
100806	DSMGFKIT	DS5HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS5HINGEKIT
121006	DSMGFKIT	DS5HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS5HINGEKIT
141206	DSMGFKIT	DS6HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS6HINGEKIT
141208	DSMGFKIT	DS6HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS6HINGEKIT
161408	DSMGFKIT	DS6HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS6HINGEKIT
181610	DSMGFKIT	DS6HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS6HINGEKIT
201610	DSMGFKIT	DS6HPLUG	DSWKIT	DSCCWKIT	DSFLKIT	DSHLLKIT	DSHPLKIT	DS6HINGEKIT

Stahlin Non-Metallic Enclosures • 500 Maple Street, Belding, MI 48809 • Phone: 616-794-0700 • Fax: 616-794-3378 • www.stahlin.com

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com

23

Stahlin Non-Metallic Enclosures
500 Maple Street
Belding, MI 48809

Phone: 616-794-0700
Fax: 616-794-3378
Website: www.stahlin.com

Stahlin Non-Metallic Enclosures
A Member of The Robroy Industries Group