

## *The Design Difference...*

### *Unsurpassed Panel Management System®*

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

#### *The DiamondShield Panel Management System® Offers 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.

***Go From This!***



***To This!***



# DiamondShield Panel Management System®

## BACK PANEL



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

## 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

## 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

## 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

## COVER PANEL



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

## USE MULTIPLE PANELS

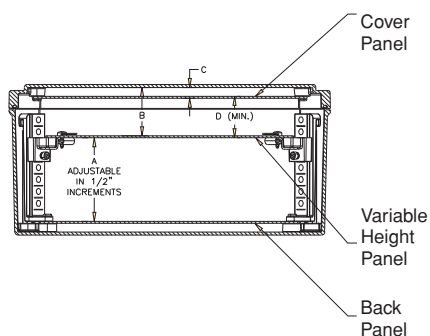


## DiamondShield Panel Management System®

*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.



| DiamondShield Series Enclosures Panel Management System® |                     |                     |               |                            |               |             |             |
|----------------------------------------------------------|---------------------|---------------------|---------------|----------------------------|---------------|-------------|-------------|
| SIZE ID                                                  | FIXED PANEL (MIN) A | SWING PANEL (MIN) A | (MAX) A       | OPAQUE/BONDED WINDOW 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

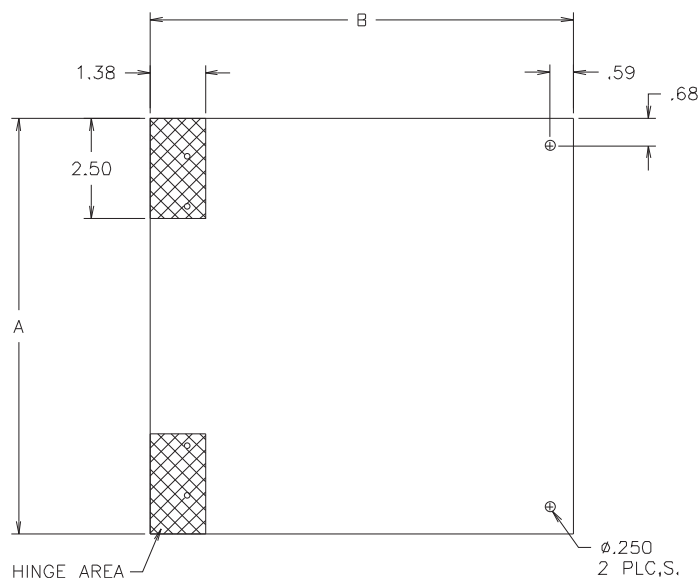
"C" not applicable for clear cover

Cover panel kit not available for clear cover options

### 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.



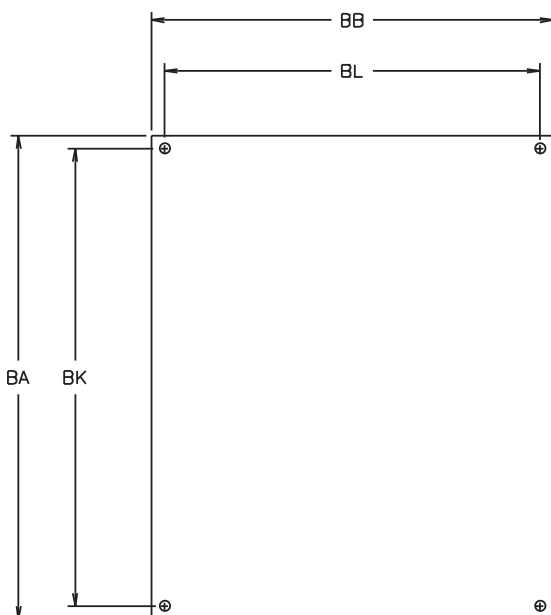
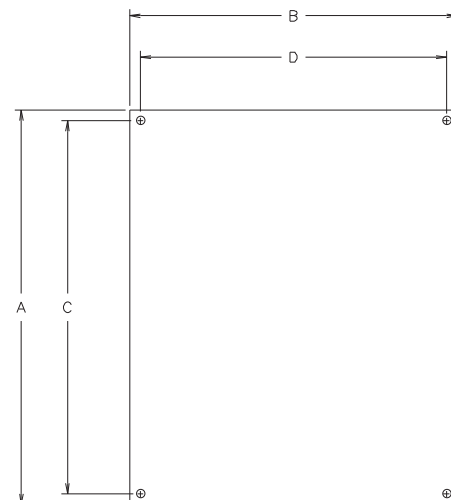
# DiamondShield Panel Management System®

## Cover Panel Dimensions

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

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Note: Cover panel kit includes cover panel and mounting hardware.



## Back Panel Dimensions

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

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Suffix - Available materials

AL - Aluminum

CS - Painted Carbon Steel

SS - Stainless Steel

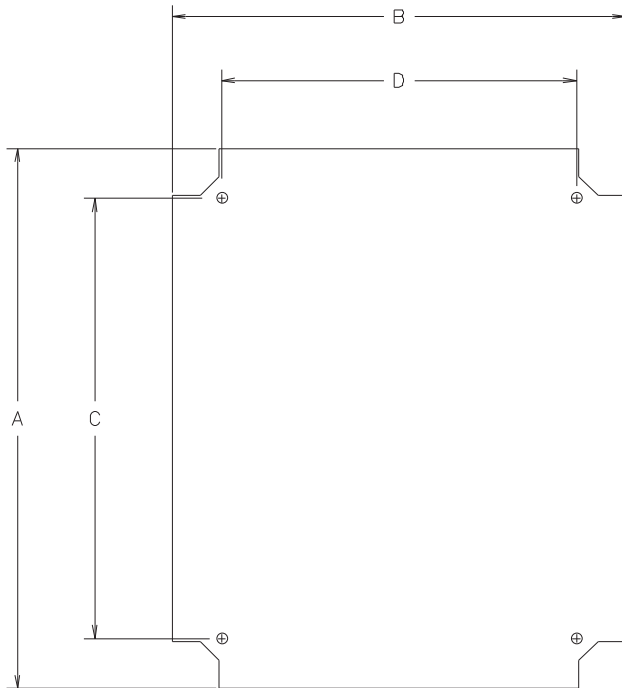
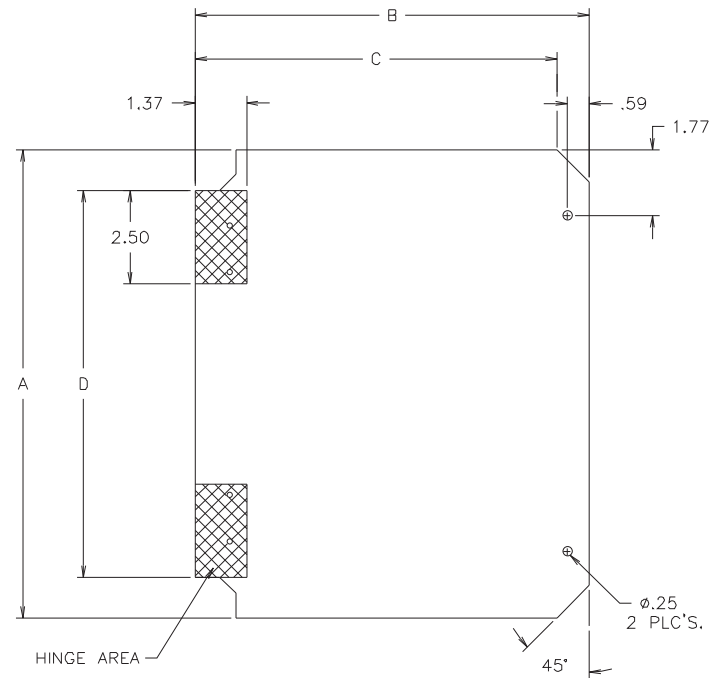
Example: BP1210AL

## DiamondShield Panel Management System®

### Dead Front Swing Panel Dimensions

| PART NUMBER | A              | B              | C              | D              | PANEL THK.  | PANEL TYPE |
|-------------|----------------|----------------|----------------|----------------|-------------|------------|
| P806SWAL    | 8.56<br>(217)  | 6.56<br>(167)  | 5.70<br>(145)  | 6.37<br>(162)  | .080<br>(2) | Flat       |
| P808SWAL    | 8.56<br>(217)  | 8.56<br>(217)  | 7.70<br>(196)  | 6.37<br>(162)  | .080<br>(2) | Flat       |
| P1008SWAL   | 10.56<br>(268) | 8.56<br>(217)  | 7.70<br>(196)  | 8.37<br>(213)  | .080<br>(2) | Flat       |
| P1210SWAL   | 12.56<br>(319) | 10.56<br>(268) | 10.37<br>(246) | 9.70<br>(263)  | .080<br>(2) | Flat       |
| P1412SWAL   | 14.56<br>(370) | 12.56<br>(319) | 11.70<br>(297) | 12.37<br>(314) | .080<br>(2) | Flat       |
| P1614SWAL   | 16.56<br>(421) | 14.56<br>(370) | 15.57<br>(399) | 14.37<br>(365) | .080<br>(2) | Flat       |
| P1816SWAL   | 18.56<br>(471) | 16.56<br>(421) | 15.70<br>(399) | 16.37<br>(467) | .080<br>(2) | Flat       |
| P2016SWAL   | 20.56<br>(522) | 16.56<br>(421) | 15.70<br>(399) | 18.37<br>(467) | .080<br>(2) | Flat       |

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### Variable Height Stationary Panel Dimensions

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

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