



TEC SOFT-CLOSE AND TEC SELF-CLOSE

TEC Face Frame Hinge System Established quality with functional benefits for today's modern cabinetry.







The perfect solution for your face fame cabinetry. TEC Soft-close, with an integrated soft closing action, and TEC Self-close hinge lines offer a complete range of quality hinges made in the USA.

> The TEC hinge system offers a proven technology that makes TEC the first product choice among face frame hinge systems. Quiet and effortless closing action is guaranteed every time with TEC Soft-close hinges. Sleek in design, the Softclose mechanism is pre-mounted in the hinge cup. TEC Soft-close and Self-close include three dimensional adjustment and a variety of overlays to meet your hinge needs. Made in the USA, TEC hinges are built to last.



TEC SOFT-CLOSE AND TEC SELF-CLOSE HINGE SYSTEMS

Made in the USA, the TEC hinge systems offer a solution for every application in kitchen, bath, and residential cabinetry.



TEC Soft-close – the unique face frame hinge with adjustable soft-close action

The TEC Soft-close hinge system is a revolutionary face frame hinge with the soft-closing mechanism pre-mounted into the interior of the hinge cup. An adjustment switch located on the face of the hinge regulates the closing action of the door. Integrated Soft-close combined with the adjustment feature provides functional benefits for today's modern cabinetry. Made in the USA, your doors will close softly, quietly, and consistently with TEC Soft-close.

Innovative three tiered adjustment

TEC Soft-close hinges feature a three tiered adjustment switch enabling you to regulate the closing action of the door. These adjustments provide different levels of damping resistance in the soft-close mechanism. Set at the highest level, the damping system has the most resistance and provides the longest closing action. To achieve less resistance you can place the adjustment switch at the medium level or lower level. The settings can be different for each hinge on the door so that you can achieve the maximum benefit in your closing action regardless of the size or weight of the door.



TEC Self-close hinge system offers a solution for every cabinet application

The TEC 860 family includes a variety of hinges with three dimensional adjustment to hinges used for MDF material. Each hinge is available in a variety of overlays and in an array of hinge and base plate versions. Constructed of all-steel and nickel-finish components for optimal strength and durability, the TEC hinge systems work on a variety of doors with profiled door edges. Made in the USA, TEC hinges are engineered to last.

TEC Hinges



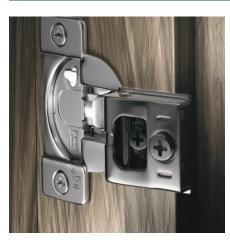
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Features and Benefits

TEC Soft-close

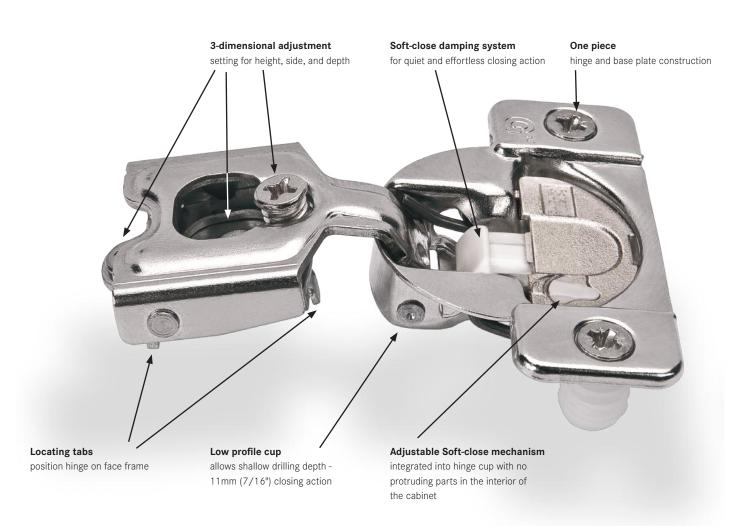
Features



TEC Soft-close hinges are made in the USA of durable and long-lasting materials with time-tested design and manufacturing techniques. Every mechanism is tested for reliability and the user experience.

- One piece hinge and base plate combination
- 3-tier Soft-close adjustment
- 42 and 45mm boring patterns
- For face frame cabinetry
- Made in the USA

TEC Soft-close hinges are offered in these overlays: 1/4", 7/16", 1/2", 5/8", 3/4", 1", 1 1/4", 1 5/16", 1 3/8", 1 1/2", 1 7/16"



Features and Benefits



TEC Self-close

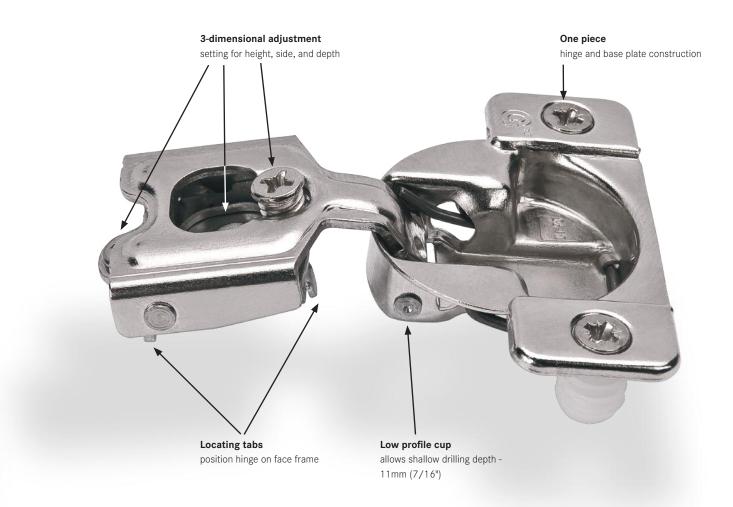
Features



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- For face frame cabinetry
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TEC Self-close hinges are offered in these overlays: ¹/4", ⁷/₁₆", ¹/₂", ⁹/₁₆", ⁵/₈", ³/₄", 1", 1 ¹/₄", 1 ⁵/₁₆", 1 ³/₈", 1 ¹/₂", 1 ⁷/₁₆"



Technical Information

TEC Hinges

Technical Information

There are numerous variables that will determine the choice of hinge. Determine the requirements of the application.

Consider the following points based on the door to cabinet application:

Door overlay

Adjustment requirements:

- Height only
- Height and side
- Height, side, and depth

Base plate mounting to face frame:

- Wrap-around 3/4" thick frames only
- Side mount frames thicker than 3/4"
- Face mount any overlay greater than 1 7/16"
- MDF material mounting into end grain

Door removal:

- With base plate mounting screw (one-piece hinges)
- With depth adjustment screw (two-piece hinges)

Number of Hinges per Door

The number of hinges is determined by the door height, door weight, quality of the door material, and the fixing of the cup and base plate.

The load and height data refer to 24" standard door widths.

The table refers to hinges with and without integrated dampers. Grass strongly recommends a trial mount for all hinges and base plates.

Attach base plates using all available screw holes.

Example:

For doors measuring 56" x 24" and weighing 19 lbs, Grass recommends the installation of 3 hinges.

Note: The distance between the top and bottom hinge must be greater than the width of the door.

The **TEC** hinge meets and exceeds the minimum requirements of ANSI/BHMA A156.9 Standard.

Door clearance/hinge arm clearance (for interior rollout trays)

Door gap distance between face frame and the back of the closed door

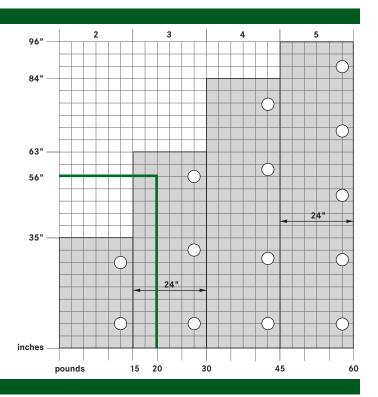
Minimum reveal distance between two doors hinged back to back

Door thickness thicker doors can restrict opening angle and minimum reveal

Hinge cup boring pattern for dowelled hinges

Door opening angle

Soft- or Self-closing



Features

All-steel Construction

TEC hinges feature a solid metal hinge cup. All moving mechanism parts, including pivot pins, linkages and springs are hardened to ensure long-term durability.

Shallow Cup Depth

TEC hinges feature a shallow $11 \text{ mm} (7/16^{\prime\prime})$ cup to accommodate profiled door edge. There are no protruding parts from the hinge cup.

Interchangeable

TEC Soft-close and **Self-close** have the same boring pattern so no change is necessary in your existing setup.

All-steel Construction

3-dimensional adjustment is built into the 864 and 872 hinge series.2-dimensional adjustment is available for 861 MDF and 863 hinge series.

Integrated Soft-close

The Soft-close damper is pre-mounted in the hinge cup.

No additional installation of the Soft-close is required.

A three tiered adjustment switch allows various levels of resistance in the damping system.

Made in the USA

TEC hinges are manufactured at the Grass facility in Kernersville, NC.

Technical Information

TEC Hinges

Adjustments

TEC hinges offer a convenient three dimensional adjustment.

1 Side Adjustment

Rotate cam adjustment screw.

2 Height Adjustment

Loosen screw, align door, tighten screw.

3 Depth Adjustment

Rotate cam screw.

4 TEC Soft-close hinges offer an adjustable three tier closing mechanism.

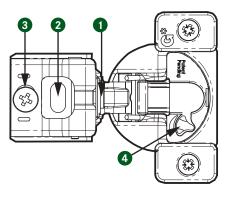
Soft-close Tension

Light, Medium, and Strong settings



LIGHT





This is the **"LIGHT"** setting for the Soft-closing mechanism. Set here for light or small doors with very little closing pressure.



MEDIUM

This is the **"MEDIUM"** setting for the Soft-closing mechanism. Set here for average size doors with normal closing pressure.





STRONG

This is the "**STRONG**" setting for the Soft-closing mechanism. Set here for larger or heavier doors with a strong closing pressure. (Factory Setting)

Note: To reset the Soft-close damper, move the adjustment switch to **"STRONG"**, then to the desired position. Close the door and the Soft-close will be reset.



TEC 864 Soft-close

108° Opening Angle - 1/4" to 1" Overlay



- · Soft-close damper is pre-mounted in the hinge cup
- · Adjustment switch to regulate closing action
- · One piece hinge and base plate combination
- 3 dimensional adjustment
- 11mm (7/16") cup drilling depth
- · Front locating tabs position hinge on face frame
- · Cam side adjustment
- Cam depth adjustment
- Height adjustment at mounting screw
- · Works with current GRASS insertion machinery
- Made in the USA

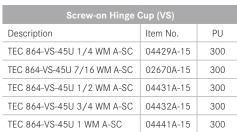


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|------------------------------------|----------------|---------------|-----------------------------|-----------|-----|----------------------------|-----------|-----------|--|--|--|
| Side-mount - 45mm Drilling Pattern | | | | | | | | | | | |
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | Screw-on Hinge | Cup (VS) | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | Description | Item No. | PU | | | |
| 12.7 (1/2") | 3.5 (1/8) | 11 (7/16") | TEC 864-VS8-45U 1/2 SM A-SC | 02750A-15 | 300 | TEC 864-VS-45U 1/2 SM A-SC | 04423A-15 | 300 | | | |
| 16 (5/8") | 0.3 (1/32") | 11 (7/16") | TEC 864-VS8-45U 5/8 SM A-SC | 01995A-15 | 300 | - | - | - | | | |



No Hammer

| Wrap-around - 45mm Drining Pattern | | | | | | | | | | |
|------------------------------------|--|---|--|--|---|--|--|--|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | De | | | | |
| 6 (1/4") | 11 (7/16") | 14.5 (9/16") | TEC 864-VS8-45U 1/4 WM A-SC | 02791A-15 | 300 | TEC | | | | |
| 11 (7/16") | 5.1 (13/64") | 11 (7/16") | TEC 864-VS8-45U 7/16 WM A-SC | 02858A-15 | 300 | TEC | | | | |
| 12.7 (1/2") | 3.5 (1/8") | 11 (7/16") | TEC 864-VS8-45U 1/2 WM A-SC | 02870A-15 | 300 | TEC | | | | |
| 19 (3/4") | 0 | 11 (7/16") | TEC 864-VS8-45U 3/4 WM A-SC | 02875A-15 | 300 | TEC | | | | |
| 25 (1") | 0 | 11 (7/16") | TEC 864-VS8-45U 1 WM A-SC | 02745A-15 | 300 | TEC | | | | |
| | Overlay mm (inch) 6 (1/4") 11 (7/16") 12.7 (1/2") 19 (3/4") | Overlay Door Clearance mm (inch) mm (inch) 6 (1/4") 11 (7/16") 11 (7/16") 5.1 (13/64") 12.7 (1/2") 3.5 (1/8") 19 (3/4") 0 | mm (inch) mm (inch) mm (inch) 6 (1/4") 11 (7/16") 14.5 (9/16") 11 (7/16") 5.1 (13/64") 11 (7/16") 12.7 (1/2") 3.5 (1/8") 11 (7/16") 19 (3/4") 0 11 (7/16") | Overlay Door Clearance Arm Clearance Dowelled Hinge C mm (inch) mm (inch) mm (inch) Description 6 (1/4") 111 (7/16") 14.5 (9/16") TEC 864-VS8-45U 1/4 WM A-SC 11 (7/16") 5.1 (13/64") 11 (7/16") TEC 864-VS8-45U 7/16 WM A-SC 12.7 (1/2") 3.5 (1/8") 11 (7/16") TEC 864-VS8-45U 1/2 WM A-SC 19 (3/4") 0 11 (7/16") TEC 864-VS8-45U 3/4 WM A-SC | Overlay Door Clearance Arm Clearance Dowelled Hinge Cup (VS8) mm (inch) mm (inch) Description Item No. 6 (1/4") 111 (7/16") 14.5 (9/16") TEC 864-VS8-45U 1/4 WM A-SC 02791A-15 11 (7/16") 5.1 (13/64") 11 (7/16") TEC 864-VS8-45U 7/16 WM A-SC 02858A-15 12.7 (1/2") 3.5 (1/8") 11 (7/16") TEC 864-VS8-45U 1/2 WM A-SC 02870A-15 19 (3/4") 0 11 (7/16") TEC 864-VS8-45U 3/4 WM A-SC 02875A-15 | Overlay Door Clearance Arm Clearance Dowelled Hinge Cup (VS8) mm (inch) mm (inch) Description Item No. PU 6 (1/4") 111 (7/16") 14.5 (9/16") TEC 864-VS8-45U 1/4 WM A-SC 02791A-15 300 11 (7/16") 5.1 (13/64") 11 (7/16") TEC 864-VS8-45U 7/16 WM A-SC 02858A-15 300 12.7 (1/2") 3.5 (1/8") 11 (7/16") TEC 864-VS8-45U 1/2 WM A-SC 02870A-15 300 19 (3/4") 0 11 (7/16") TEC 864-VS8-45U 3/4 WM A-SC 02875A-15 300 | | | | |





No Hammer

Item No.

02788A-15

02809A-15

02824A-15

02825A-15

02834A-15

PU

300

300

300

300

300

Dowelled Hinge Cup (VS8)

| Side-mount - 42mm Drilling Pattern | | | | | | | | | | | |
|------------------------------------|----------------|---------------|-----------------------------|-----------|-----|--|--|--|--|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | | | | | |
| 12.7 (1/2") | 3.5 (1/8") | 11 (7/16") | TEC 864-VS8-42U 1/2 SM A-SC | 02749A-15 | 300 | | | | | | |

Description

TEC 864-VS8-42U 1/4 WM A-SC

TEC 864-VS8-42U 7/16 WM A-SC

TEC 864-VS8-42U 1/2 WM A-SC

TEC 864-VS8-42U 3/4 WM A-SC

TEC 864-VS8-42U 1 WM A-SC

Arm Clearance

mm (inch)

14.5 (9/16")

11 (7/16")

11 (7/16")

11 (7/16")

11 (7/16")

| Angle Reduction Clip | | |
|--------------------------|----------|-----|
| Description | Item No. | PU |
| 85° Angle reduction clip | 80125-42 | 100 |

Reduces opening angle to 85°



PU - Packaging unit



Wrap-around - 42mm Drilling Pattern

Door Clearance

mm (inch)

11 (7/16")

5.1 (13/64")

3.5 (1/8")

0

0

Overlay

mm (inch)

6 (1/4")

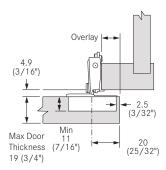
11 (7/16")

12.7 (1/2")

19 (3/4")

25 (1")

Dimensions - Door Closed



#10 x 3/4" pan head screw -

(min

Min

Reveal

17.5 (11/16") 19 (3/4")

6.7 (1/4")

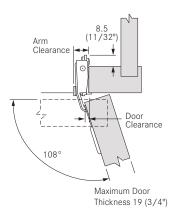
9.5 (3/8)

TEC 864 Minimum Reveal

Door Thickness 16 (5/8")

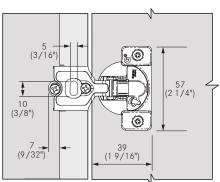
Based on door with square edge.

Minimum Reveal 4.2 (5/32") 5.4 (7/32")



Arm and door clearances see page 10.

Overall Dimensions



Adjustments

1 Side Adjustment +/-1.5mm (1/16") Rotate cam adjustment screw.

2 Height Adjustment +/-2mm (3/32") Loosen screw, align door, tighten screw.

3 Depth Adjustment +2.5mm (3/32"), -5mm (1/32") Rotate cam screw.

4 Soft-close Tension

Light, Medium, and Strong setting See page 9 for complete adjustment explanation

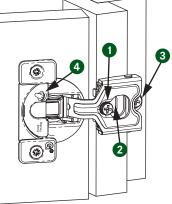
Mounting Screws

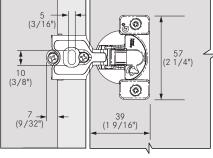
Hinge cup to door, #6 x 5/8" Flat head screw Base plate to face frame, #10 x 3/4" Pan head screw



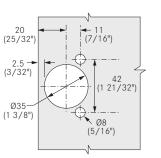
IMPORTANT

To determine the correct application Grass strongly recommends a trial mounting for all hinges and base plates.

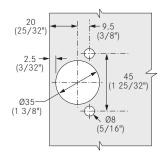


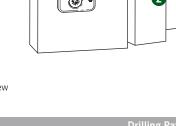


42mm Drilling Pattern



45mm Drilling Pattern





TEC 864 Soft-close 108° Opening Angle - 1¹/₄" to 1¹/₂" Overlay



Wrap-around - 45mm Drilling Pattern

- Soft-close damper is pre-mounted in the hinge cup
- Adjustment switch to regulate closing action
- One piece hinge and base plate combination
- 3 dimensional adjustment
- 11mm (7/16") cup drilling depth
- Front locating tabs position hinge on face frame
- Cam side adjustment
- Cam depth adjustment
- Height adjustment at mounting screw
- Works with current GRASS insertion machinery
- Made in the USA



| Side-mount - 45mm Drilling Pattern | | | | | | | | | | |
|------------------------------------|----------------|---------------|-------------------------------|-----------|-----|--|--|--|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | | | | |
| 32 (1 1/4") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 1/4 SM A-SC | 02780A-15 | 300 | | | | | |
| 35 (1 3/8") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 3/8 SM A-SC | 02785A-15 | 300 | | | | | |



| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | Screw-on Hinge Cup (VS) | | |
|----------------|----------------|---------------|--------------------------------|-----------|-----|-------------------------------|-----------|-----|
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | Description | Item No. | PU |
| 32 (1 1/4") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 1/4 WM A-SC | 02910A-15 | 300 | TEC 864-VS-45U 1 1/4 WM A-SC | 04547A-15 | 300 |
| 33.5 (1 5/16") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 5/16 WM A-SC | 02198A-15 | 300 | TEC 864-VS-45U 1 5/16 WM A-SC | 02176A-15 | 300 |
| 35 (1 3/8") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 3/8 WM A-SC | 02782A-15 | 300 | TEC 864-VS-45U 1 3/8 WM A-SC | 04548A-15 | 300 |
| 38 (1 1/2") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 1/2 WM A-SC | 02805A-15 | 300 | TEC 864-VS-45U 1 1/2 WM A-SC | 04549A-15 | 300 |

| \frown | | |
|--------------|----------|---|
| (N)No Hammer | | |
| Nonaminer | | = |
| | <u> </u> | |

| Side-mount - 42mm Drilling Pattern | | | | | | | | | | |
|------------------------------------|----------------|---------------|-------------------------------|-----------|-----|--|--|--|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | | | | |
| 32 (1 1/4") | 0 | 10 (13/32") | TEC 864-VS8-42U 1 1/4 SM A-SC | 02838A-15 | 300 | | | | | |

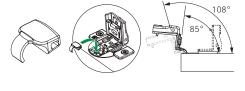
No Hammer

| | | | | <u> </u> | | | | | | |
|-------------------------------------|----------------|---------------|-------------------------------|-----------|-----|--|--|--|--|--|
| Wrap-around - 42mm Drilling Pattern | | | | | | | | | | |
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | | | | |
| 32 (1/4") | 0 | 10 (13/32") | TEC 864-VS8-42U 1 1/4 WM A-SC | 02836A-15 | 300 | | | | | |
| 38 (1 1/2") | 0 | 10 (13/32") | TEC 864-VS8-42U 1 1/2 WM A-SC | 02839A-15 | 300 | | | | | |

Angle Reduction Clip

| Description | Item No. | PU |
|--------------------------|----------|-----|
| 85° Angle reduction clip | 80125-42 | 100 |

Reduces opening angle to 85°



4.9 (3/16")

Dimensions - Door Closed

Max Door Min Thickness 11 19 (3/4") (7/16") (25/32")

Overlay

Minimum Reveal

#10 x 3/4" pan head screw

9.5 (3/8")

TEC 864 Minimum Reveal Door Thickness 16 (5/8")

Minimum Reveal 4.2 (5/32")

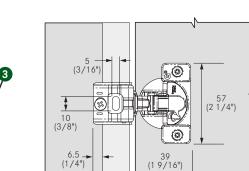
Based on door with square edge.

52

Clearances - Door Open

Arm and door clearances see page 12.

Overall Dimensions



Adjustments



Height Adjustment +/-2mm (3/32") Loosen screw, align door, tighten screw.

3 Depth Adjustment +3mm (1/8") Rotate cam screw.

4 Soft-close Tension

Light, Medium, and Strong setting See page 9 for complete adjustment explanation

Mounting Screws

Hinge cup to door, #6 x 5/8" Flat head screw Base plate to face frame, $\#10 \times 3/4$ " Pan head screw



IMPORTANT

To determine the correct application Grass strongly recommends a trial mounting for all hinges and base plates.

Drilling Pattern

2

Min Reveal

19 (3/4")

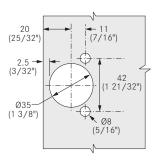
6.7 (1/4")

17.5 (11/16")

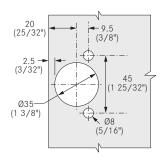
5.4 (7/32")

1

42mm Drilling Pattern



45mm Drilling Pattern



TEC 863 Soft-close/Self-close

108° Opening Angle - Face-mount



- Available in Soft-close and Self-close
- · Soft-close damper is pre-mounted in the hinge cup
- · Adjustment switch on Soft-close to regulate closing action
- One piece hinge and base plate combination
- 2 dimensional adjustment
- 11mm (7/16") cup drilling depth
- Height adjustment at mounting screw
- For overlays 1 7/16" and greater
- 85° angle reduction clip available for Soft-close and Self-close
- Made in the USA



| Face-mount - 45mm Drilling Pattern Self-close | | | | | | | | | | | |
|---|----------------|---------------|---------------------------|----------|-----|--------------------------|----------|-----|--|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | Screw-on Hinge | Cup (VS) | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | Description | Item No. | PU | | | |
| 37 (1 7/16") | 0 | 0 | TEC 863-VS8-45U 1 7/16 FM | 02283-15 | 300 | TEC 863-VS-45U 1 7/16 FM | 02284-15 | 300 | | | |

| Face-mount - 42mm Drilling Pattern Self-close | | | | | | | | |
|---|----------------|---------------|---------------------------|----------|-----|--|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | | |
| 37 (1 7/16") | 0 | 0 | TEC 863-VS8-42U 1 7/16 FM | 02282-15 | 300 | | | |

| Angle Reduction Clip | | | | | |
|--------------------------|----------|-----|--|--|--|
| | | | | | |
| Description | Item No. | PU | | | |
| 85° Angle reduction clip | 80125-42 | 100 | | | |

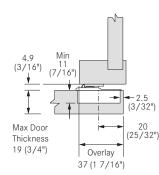
Reduces opening angle to 85°



G*

Dimensions - Door Closed

Minimum Revea



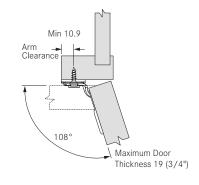
#6 x 5/8" flat head screw 9.5 (3/8") 1..... Min Reveal

TEC 863 Minimum Reveal

 Door Thickness
 16 (5/8")
 17.5 (11/16")
 19 (3/4")

 Minimum Reveal
 4.2 (5/32")
 5.4 (7/32")
 6.7 (1/4")

 Based on door with square edge.
 5.4 (7/32")
 5.7 (1/4")



Arm and door clearances see page 14.

Overall Dimensions

Adjustments

Side Adjustment +/-1.5mm (1/16") Rotate cam adjustment screw.

Height Adjustment +/-2mm (3/32") Loosen screw, align door, tighten screw.

3 Soft-close Tension

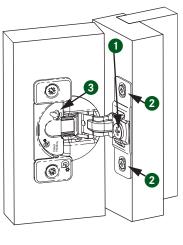
Light, Medium, and Strong setting See page 9 for complete adjustment explanation

Mounting Screws

Hinge cup to door, $#6 \times 5/8$ " Flat head screw Base plate to face frame, $#6 \times 5/8$ " Flat head screw

Door Overlay = 37(17/16") when base plate is flush inside edge of face frame.

Base Plates



Drilling Pattern

20

(25/32")

2.5 -(3/32")

Ø35— (1 3/8")

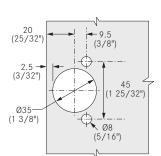
42mm Drilling Pattern

<-- 11 (7/16")

> Ø8 (5/16")

42 (1 21/32")





45mm Drilling Pattern

IMPORTANT

To determine the correct application Grass strongly recommends a trial mounting for all hinges and base plates.

TEC 864 Self-close

108° Opening Angle - 1/4" to 1" Overlay



- One piece hinge and base plate combination
- 3 dimensional adjustment
- 11mm (7/16") cup drilling depth
- Front locating tabs position hinge on face frame
- Cam side adjustment
- Cam depth adjustment
- Height adjustment at mounting screw
- Works with current GRASS insertion machinery
- Made in the USA

Side-mount - 45 mm Drilling Pattern

Duilling D

| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | Screw-on Hinge Cup (VS) | | | |
|-------------|----------------|---------------|--------------------------|----------|-------------------------|-----------------------|----------|-----|
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | Description | Item No. | PU |
| 6 (1/4") | 11 (7/16") | 14.5 (9/16") | TEC 864-VS8-45U 1/4 SM | 02851-15 | 300 | TEC 864-VS-45U 1/4 SM | 04386-15 | 300 |
| 12.7 (1/2") | 3.5 (1/8") | 11 (7/16") | TEC 864-VS8-45U 1/2 SM | 02872-15 | 300 | TEC 864-VS-45U 1/2 SM | 04387-15 | 300 |
| 16 (5/8") | 0.3 (1/32") | 11 (7/16") | TEC 864-VS8-45U 5/8 SM | 01864-15 | 300 | - | - | - |
| 19 (3/4") | 0 | 11 (7/16") | TEC 864-VS8-45U 3/4 SM | 02878-15 | 300 | TEC 864-VS-45U 3/4 SM | 04390-15 | 300 |
| 25 (1") | 0 | 11 (7/16") | TEC 864-VS8-45U 1 SM | 02885-15 | 300 | TEC 864-VS-45U 1 SM | 04395-15 | 300 |

| wrap-arour | nd - 45 mm Drillin | g Pattern | | | | |
|-------------|--------------------|---------------|-------------------------|--------------------------|-----|-----------|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge C | Dowelled Hinge Cup (VS8) | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | Descripti |
| 6 (1/4") | 11 (7/16") | 14.5 (9/16") | TEC 864-VS8-45U 1/4 WM | 02847-15 | 300 | TEC 864- |
| 11 (7/16") | 5.1 (13/64") | 11 (7/16") | TEC 864-VS8-45U 7/16 WM | 02904-15 | 300 | |
| 12.7 (1/2") | 3.5 (1/8") | 11 (7/16") | TEC 864-VS8-45U 1/2 WM | 02905-15 | 300 | TEC 864- |
| 19 (3/4") | 0 | 11 (7/16") | TEC 864-VS8-45U 3/4 WM | 02907-15 | 300 | TEC 864- |
| 25 (1") | 0 | 11 (7/16") | TEC 864-VS8-45U 1 WM | 02882-15 | 300 | TEC 864- |

| Screw-on Hinge Cup (VS) | | | | | | | |
|-------------------------|----------|-----|--|--|--|--|--|
| Description | Item No. | PU | | | | | |
| TEC 864-VS-45U 1/4 WM | 04396-15 | 300 | | | | | |
| - | - | - | | | | | |
| TEC 864-VS-45U 1/2 WM | 04399-15 | 300 | | | | | |
| TEC 864-VS-45U 3/4 WM | 04400-15 | 300 | | | | | |
| TEC 864-VS-45U 1 WM | 04401-15 | 300 | | | | | |
| | | | | | | | |

| Side-mount - 42 mm Drilling Pattern | | | | | | | | |
|-------------------------------------|----------------|---------------|--------------------------|----------|-----|--|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | | |
| 12.7 (1/2") | 3.5 (1/8") | 11 (7/16") | TEC 864-VS8-42U 1/2 SM | 02871-15 | 300 | | | |
| 25 (1") | 0 | 11 (7/16") | TEC 864-VS8-42U 1 SM | 02884-15 | 300 | | | |

| Wrap-around - 42 mm Drilling Pattern | | | | | | | |
|--------------------------------------|----------------|---------------|--------------------------|----------|-----|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | |
| 6 (1/4") | 11 (7/16") | 14.5 (9/16") | TEC 864-VS8-42U 1/4 WM | 02846-15 | 300 | | |
| 12.7 (1/2") | 3.5 (1/8") | 11 (7/16") | TEC 864-VS8-42U 1/2 WM | 02869-15 | 300 | | |
| 19 (3/4") | 0 | 11 (7/16") | TEC 864-VS8-42U 3/4 WM | 02873-15 | 300 | | |
| 25 (1") | 0 | 11 (7/16") | TEC 864-VS8-42U 1 WM | 02879-15 | 300 | | |

Angle Reduction Clip

| Description | Item No. | PU |
|--------------------------|----------|-----|
| 85° Angle reduction clip | 80125-42 | 100 |

Reduces opening angle to 85°

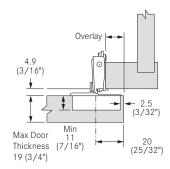


PU - Packaging unit

Dimensions - Door Closed



learances - Door Open

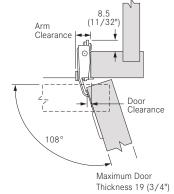


TEC 864 Minimum Reveal

 Door Thickness
 16 (5/8")
 17.5 (11/16")
 19 (3/4")

 Minimum Reveal
 4.2 (5/32")
 5.4 (7/32")
 6.7 (1/4")

 Based on door with square edge.
 5.4 (7/32")
 5.7 (1/4")



Arm and door clearances see page 16.

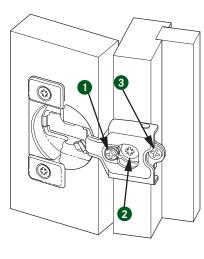
Overall Dimensions

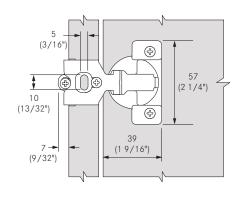
Adjustments

- **Side Adjustment** +/-1.5mm (1/16") Rotate cam adjustment screw.
- Height Adjustment +/-2mm (3/32") Loosen screw, align door, tighten screw.
- 3 Depth Adjustment +2.5mm (3/32"), -5mm (1/32") Rotate cam screw.

Mounting Screws

Hinge cup to door, $#6 \times 5/8$ " Flat head screw Base plate to face frame, $#10 \times 3/4$ " Pan head screw





Base Plates

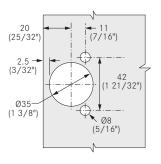


IMPORTANT

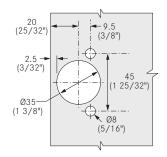
To determine the correct application Grass strongly recommends a trial mounting for all hinges and base plates.

Drilling Pattern

42mm Drilling Pattern



45mm Drilling Pattern



TEC 864 Self-close 108° Opening Angle - 1¹/₄" to 1¹/₂" Overlay



- One piece hinge and base plate combination
- 3 dimensional adjustment
- 11mm (7/16") cup drilling depth
- Front locating tabs position hinge on face frame
- Cam side adjustment
- Cam depth adjustment
- Height adjustment at mounting screw
- Works with current GRASS insertion machinery
- Made in the USA

| Side-mount | - 45mm Drilling | Pattern | | | | | | |
|----------------|-----------------|---------------|---------------------------|----------|-----|-------------------------|----------|-----|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | Screw-on Hinge Cup (VS) | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | Description | Item No. | PU |
| 32 (1 1/4") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 1/4 SM | 02894-15 | 300 | TEC 864-VS-45U 1 1/4 SM | 04466-15 | 300 |
| 33.5 (1 5/16") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 5/16 SM | 01094-15 | 300 | - | - | - |
| 35 (1 3/8") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 3/8 SM | 02898-15 | 300 | TEC 864-VS-45U 1 3/8 SM | 04468-15 | 300 |
| 38 (1 1/2") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 1/2 SM | 02903-15 | 300 | TEC 864-VS-45U 1 1/2 SM | 04469-15 | 300 |

| Wrap-arour | Wrap-around - 45mm Drilling Pattern | | | | | | | |
|----------------|-------------------------------------|---------------|---------------------------|----------|-----|--|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | | |
| 32 (1 1/4") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 1/4 WM | 02887-15 | 300 | | | |
| 33.5 (1 5/16") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 5/16 WM | 01095-15 | 300 | | | |
| 35 (1 3/8") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 3/8 WM | 02896-15 | 300 | | | |
| 38 (1 1/2") | 0 | 10 (13/32") | TEC 864-VS8-45U 1 1/2 WM | 02901-15 | 300 | | | |

| Screw-on Hinge Cup (VS) | | | | | | | |
|-------------------------|----------|-----|--|--|--|--|--|
| Description | Item No. | PU | | | | | |
| TEC 864-VS-45U 1 1/4 WM | 04493-15 | 300 | | | | | |
| - | - | - | | | | | |
| TEC 864-VS-45U 1 3/8 WM | 04498-15 | 300 | | | | | |
| TEC 864-VS-45U 1 1/2 WM | 04499-15 | 300 | | | | | |

| Side-mount | t - 42mm Drilling | Pattern | | | |
|-------------|-------------------|---------------|--------------------------|----------|-----|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU |
| 32 (1 1/4") | 0 | 10 (13/32") | TEC 864-VS8-42U 1 1/4 SM | 02889-15 | 300 |
| 35 (1 3/8") | 0 | 10 (13/32") | TEC 864-VS8-42U 1 3/8 SM | 02897-15 | 300 |
| 38 (1 1/2") | 0 | 10 (13/32") | TEC 864-VS8-42U 1 1/2 SM | 02902-15 | 300 |

| Wrap-around - 42mm Drilling Pattern | | | | | | | |
|-------------------------------------|----------------|---------------|--------------------------|----------|-----|--|--|
| Overlay | Door Clearance | Arm Clearance | Dowelled Hinge Cup (VS8) | | | | |
| mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU | | |
| 32 (1 1/4") | 0 | 10 (13/32") | TEC 864-VS8-42U 1 1/4 WM | 02886-15 | 300 | | |

| Angle Reduction Clip | | |
|--------------------------|----------|-----|
| | | |
| Description | Item No. | PU |
| 85° Angle reduction clip | 80125-42 | 100 |

Reduces opening angle to 85°

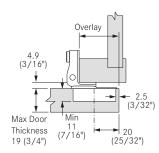


PU - Packaging unit

T

18

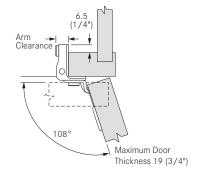
Dimensions - Door Closed



#10 x 3/4" pan head screw 9.5 (3/8") Min Reveal

TEC 864 Minimum Reveal

Door Thickness 16 (5/8") 17.5 (11/16") 19 (3/4") Minimum Reveal 4.2 (5/32") 5.4 (7/32") 6.7 (1/4") Based on door with square edge.



Arm and door clearances see page 18.

Overall Dimensions

Adjustments

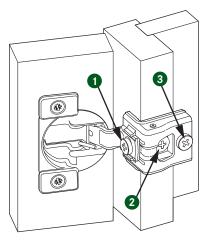


2 Height Adjustment +/-2mm (3/32") Loosen screw, align door, tighten screw.

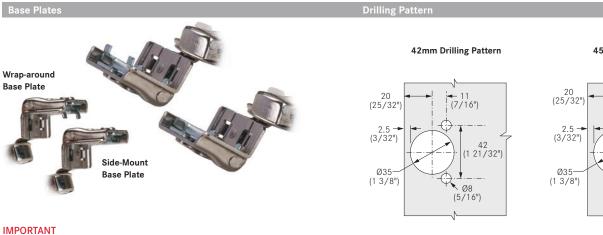
3 Depth Adjustment +3mm (1/8") Rotate cam screw.

Mounting Screws

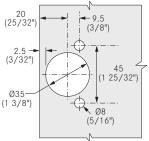
Hinge cup to door, #6 x 5/8" Flat head screw Base plate to face frame, #10 x 3/4" Pan head screw



(3/16" Þ 57 (2 1/4") \$ 47) 10 (13/32") Ð 39 (1 9/16") 6.5 (1/4")



45mm Drilling Pattern



To determine the correct application Grass strongly recommends a trial mounting for all hinges and base plates.

TEC 861 for MDF Frame Material, Self-close

108° Opening Angle



- Patented wrap-around base plate prevents splitting of frame material
- One piece hinge and base plate combination
- 11mm (7/16") cup drilling depth
- Front locating tabs position hinge on face frame
- Works on door thicknesses from 12.7mm (1/2") to 19mm (3/4")
- Works with current GRASS machinery
- 85° angle reduction clip available
- Made in the USA

| Wrap-around - 4 | 2mm Drilling | g Pattern | | | | |
|-----------------|--------------|----------------|---------------|------------------------|---------------------|-----|
| Frame Thickness | Overlay | Door Clearance | Arm Clearance | Dowel | led Hinge Cup (VS8) | |
| mm (inch) | mm (inch) | mm (inch) | mm (inch) | Description | Item No. | PU |
| 12.7 (1/2") | 12.7 (1/2") | 3 (1/8") | 7.5 (9/32") | TEC 861-VS8-42U 1/2 FT | 04742-14 | 250 |
| 16 (5/8") | 12.7 (1/2") | 3 (1/8") | 7.5 (9/32") | TEC 861-VS8-42U 5/8 FT | 04743-14 | 250 |
| 19 (3/4") | 12.7 (1/2") | 3 (1/8") | 7.5 (9/32") | TEC 861-VS8-42U 3/4 FT | 04744-14 | 250 |

| Spacer and screws | | | | | | |
|-------------------|--|----------|-----|--|--|--|
| | Description | Item No. | PU | | | |
| Spacer | 1.5 mm (1/16") slotted for MDF 861, clear | 00209-42 | 100 | | | |
| Screw | No. 8 x 3/4" Round head, self drilling, zinc | 81018-43 | 500 | | | |
| Screw | No. 8 x 5/8" Round head, truss quad, self drilling, zinc | 81017-43 | 500 | | | |





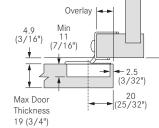




PU - Packaging unit

Subject to technical modifications without notice

Dimensions - Door Closed



#10 x 3/4" round head screw

> 9.5 (3/8")

TEC 861 Minimum Reveal Door Thickness 16 (5/8")

Based on door with square edge.

±._

(units

Minimum Reveal 4.2 (5/32") 5.4 (7/32")

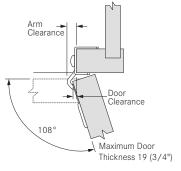
Min

Reveal

17.5 (11/16") 19 (3/4")

6.7 (1/4")

Clearances - Door Ope



Arm and door clearances see page 20.

Overall Dimensions

Adjustments

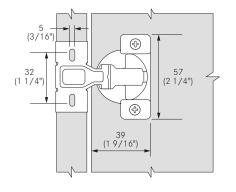
1 Side Adjustment

Decreasing overlay achieved with use of 1.5mm (1/16") spacer

Height Adjustment +/-2mm (3/32") Loosen screw, align door, tighten screw.

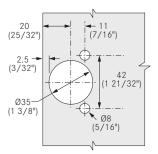
Mounting Screws

Hinge cup to door, $#6 \times 5/8$ " Flat head screw Base plate to face frame, $#10 \times 3/4$ " Pan head screw



Base Plates

42mm Drilling Pattern



IMPORTANT

To determine the correct application Grass strongly recommends a trial mounting for all hinges and base plates.

21



TEC 872 Self-close

110° Opening Angle



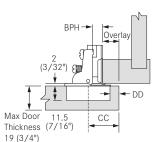
- 1/2" overlay achievable on profile door
- Available in 45mm boring pattern
- 3-dimensional hinge
- All metal construction, nickel finish
- Height adjustment in elongated screw hole
- Minimal gap between the door and frame
 - Minimal protrusion into cabinet
 - Hinge and base plate must be ordered separately

| TEC 872 Opening Angle 110° | | | | | |
|----------------------------|-----------------|-----|---------------|----------------------|-----|
| Dowelled H | linge Cup (VS8) | | Scre | ew-on Hinge Cup (VS) | |
| Description | Item No. | PU | Description | Item No. | PU |
| TEC 872-VS8-45 | 43729-17 | 500 | TEC 872-VS-45 | 43727-17 | 500 |

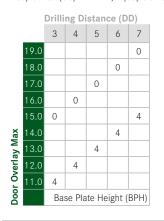
Side-mount Base Plates

| Plate Height | Description | Item No. | PU |
|--------------|-----------------------------------|----------|-----|
| 00 | 872-18 Side-mount, 11/16" overlay | 43730-43 | 500 |
| 04 | 872-22 Side-mount, 1/2" overlay | 43731-43 | 500 |

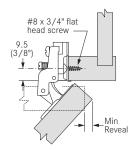
Dimensions - Door Closed



Cup Center (CC) = DD + 1/2 (Cup diameter)



Minimum Revea



Maximum Door Thickness 19 (3/4")

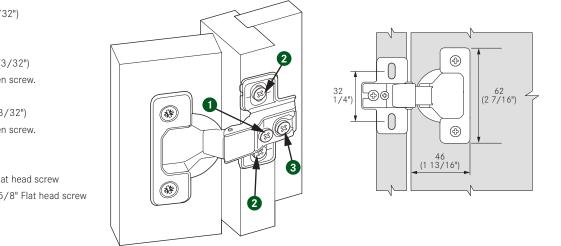
TEC 872 Minimum Reveal

 Door Thickness
 16 (5/8")
 17.5 (11/16")
 19 (3/4")

 Minimum Reveal
 4.2 (5/32")
 5.4 (7/32")
 6.7 (1/4")

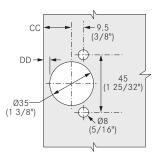
 Based on door with square edge.

Overall Dimensions



Drilling Pattern

45mm Drilling Pattern



Adjustments

- **Side Adjustment** +/-2mm (3/32") Rotate cam adjustment screw.
- Height Adjustment +/-2mm (3/32") Loosen screw, align door, tighten screw.
- 3 Depth Adjustment +/-2mm (3/32") Loosen screw, align door, tighten screw.

Mounting Screws

Hinge cup to door, #6 x 5/8" Flat head screw Base plate to face frame, #6 x 5/8" Flat head screw or #6 x 3/4" Flat head screw

Base Plates

IMPORTANT

To determine the correct application Grass strongly recommends a trial mounting for all hinges and base plates.

Machinery

GRASS PRO1 drilling and insertion machine for 45mm boring pattern

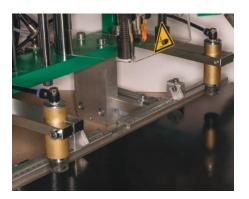


• Depth stop can be adjusted to material thickness

- Functional design
- Easy, fast and efficient operation
- Easy maintenance
- 45mm boring pattern

| Description | Item No. | PU |
|-----------------------------|----------|----|
| 220v single phase pneumatic | 94559-01 | 1 |
| 220v three phase pneumatic | 94560-01 | 1 |
| 110v single phase pneumatic | 94561-01 | 1 |

GRASS PRO1 Features

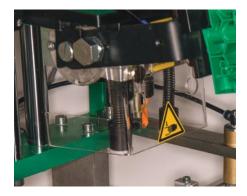


Adjustable hold-down devices Adjustable hold-down devices are suitable for a wide range of material thicknesses. Holds door firmly in place for drilling and insertion

and features manual release.



Pneumatic controls Two-hand start button controls for safe drilling and insertion functions.



Quick change chucks Easy drill bit removal and insertion using quick change chucks.

PU - Packaging unit

Machinery

GRASS PRO1 accessories

| G * |
|------------|
| |

| Drill Bits | | | | |
|---|--|-----------|-----------------|----|
| _ | Description | Direction | Item No. | PU |
| 0 | 1 35mm bit | RH | 00077-01 | 1 |
| A DECEMBER OF A | 2 8mm bit | LH | 00160-01 | 1 |
| | American Bit Set for Hinge Drilling | | 00213-01 | 1 |
| | American bit Set for Hinge Drining | | 00213-01 | 1 |
| 2 | | | | |
| Fence Stops | Set consists of: 1 - 35mm bit, RH 2 - 8mm bit, LH | | | |
| 0 0 | Description | | Item No. | PU |
| | | | 949.200.21.0000 | |
| | Additional fence stop | | | 1 |
| | 2 Universal fence stop | | 949.200.21.0100 | 1 |
| Insertion Dies | Description | | Item No. | PU |
| (CRA | Tiomos Universal Insertion Die 110°/1 | 120°/160° | 80039 | 1 |
| | 2 TEC Insertion Die | | 92617 | 1 |
| | 3 Nexis Insertion Die 110°/125° | | 04216-01 | 1 |
| | 4 Nexis Insertion Die 170° | | 04218-01 | 1 |
| A. | 5 TEC Hand insertion tool | | 03987-01 | 1 |
| Image: State State State | | | | |
| Extension Fence | | | | |
| | Description | | Item No. | PU |
| | Extension fence 400mm to 1650mm | | 88612-01 | 1 |
| | | | | |

Accessories and Assembly Aids

TEC

Shelf Supports



| Description | Item No. | PU |
|--------------------------------|-----------------|------|
| Plastic, clear, with steel pin | 499.582.50.0050 | 5000 |
| Metal spoon, nickel plated | 499.582.50.2050 | 2000 |
| Shelf support 7006/9.5, nickel | F069073460253 | 2500 |
| Shelf support 7035, nickel | F069073459253 | 2500 |
| H-802 plastic, square, clear | 00036-43 | 500 |
| | | |

Bumper Pads

Bumper Pads, Self-adhesive



| Description | Height | Diameter | Item No. | PU |
|-------------------|--------|----------|----------|------|
| Bumper pad, clear | 2.5mm | 10mm | 63407-99 | 288 |
| Bumper pad, clear | 2.5mm | 10mm | 63407-47 | 7200 |

AirSoft Bumper Pads, Self-adhesive



Bumper Pads, Self-adhesive



| Description | Height | Diameter | Item No. | PU |
|-------------|--------|----------|----------|----|

12.7mm

12.7mm

63481-43

63483-30

500

5000

5mm

5mm

AirSoft Bumper pad, clear

AirSoft Bumper pad, clear

| Description | Height | Diameter | Item No. | PU |
|-------------------|--------|----------|-----------------|------|
| Bumper pad, clear | 1.5mm | 7mm | 630.000.03.0750 | 1088 |
| Bumper pad, clear | 2mm | 10mm | 630.000.03.1050 | 1050 |
| Bumper pad, clear | 4mm | 12mm | 630.000.02.1250 | 5000 |
| | | | | |

Bumper Pads, Self-adhesive



| Description | Height | Diameter | Item No. | PU |
|-------------------|--------|----------|----------|-----|
| Bumper pad, clear | 3mm | 12.7mm | 31002-43 | 500 |
| Bumper pad, clear | 1.5mm | 12.7mm | 31004-43 | 500 |

Door Stop

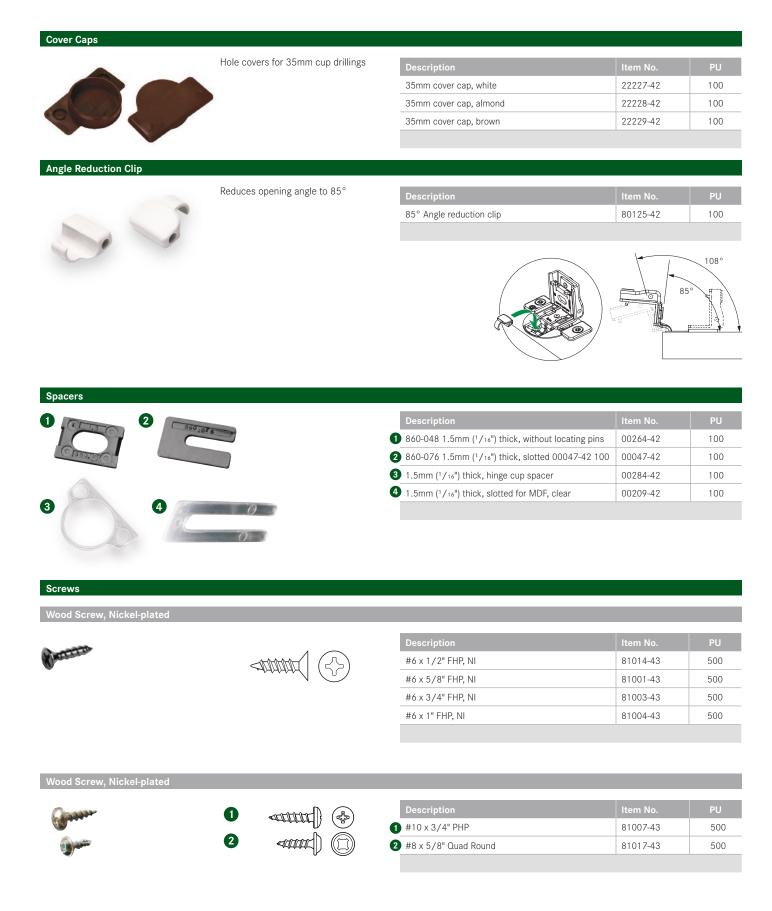


| Description | Item No. | PU |
|------------------------|----------|-----|
| H-950 door stop, clear | 00068-43 | 500 |

PU - Packaging unit

Accessories and Assembly Aids

TEC





GRASS America Inc. 1202 NC Highway 66 South Kernersville, NC 27284

Phone: 1-800-334-3512 Fax: 1-800-525-8406

www.grassusa.com info@grassusa.com GRASS Canada Inc. 10 Newgale Gate, Unit 7 Toronto, ON M1X 1C5

Phone: 1-800-461-4975 Fax: 1-416-335-5907

www.grasscanada.com info@grasscanada.com

