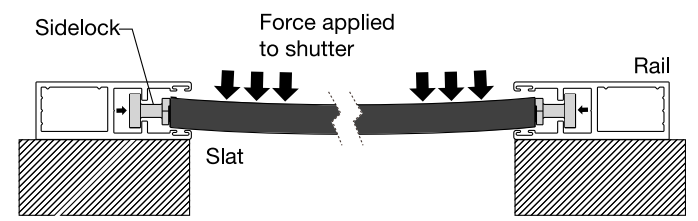


|   |   |  |                                   |                         |   |       |                |              |                                    |                         |     |   |   |   |  |
|---|---|--|-----------------------------------|-------------------------|---|-------|----------------|--------------|------------------------------------|-------------------------|-----|---|---|---|--|
| Recommended Opening Width<br>2' - 10'<br>With Motor<br>3' - 16' | Recommended Opening Height<br>Manual 2' - 10'<br>Motor 3' - 10' | Recommended Maximum SQ FT.<br>Manual 53<br>Motor 220 | Curtain Weight<br>2.28 LBS SQ FT. | Profile Height<br>2.17" | <b>ROLLAC</b>                                 |       |                |              | <b>SecuraMax RLL55-X HD System</b> |                         |     |   | Wind an<br>Mi<br>Florida Bu<br>Texas Depa |   |  |
|   |   |  |                                   |                         |   |       |                |              |                                    | <b>Operator Options</b> |     |   |   |   |  |
|   |   |  |                                   |                         | Gear  | Motor | Motor Override | RTS Override | Optional Motor / Remote Control    |                         |     |   |   |   |  |
|   |   |  |                                   |                         | <b>Housing Size (A) vs. FM Shutter Height</b> |       |                |              |                                    |                         |     |   |   |   |  |
|   |   |  |                                   |                         | 4.5   | 5     | 5.5            | 6            | 6.5                                | 7                       | 7.5 | 8 | 8.5                                       | 9 |  |
|   |   |  |                                   |                         |   |       |                |              |                                    |                         | 10  |   |   |   |  |



**System Specification Sheets**  
SecuraMax RLL55-X HD 55mm Slat Profile  
with End Retention Sidelocks



# **ROLLAC** 2017

## **System Specifications**

VERSION 04.06.17

To place an order please call:

(888) 2-ROLLAC (276-5522)

For more information please call:

(281) 485-1911 (local)

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email: [architects@rollac.com](mailto:architects@rollac.com)

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Exposed Base Slat Detail and Wall Mounting Bottom Stop Detail

### **Drawing 14**

Wall Mounting Side Rail Connections to wood and concrete walls

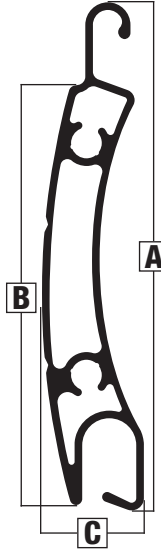
### **Drawing 15**

Common Terms used for Rolling Shutters and Shutter System Frames



# SecuraMax RLL55-X-HD Double-Walled Extruded Slat

Heavy Duty Security / Storm Protection Solution



| Slat Details                     |                |             |
|----------------------------------|----------------|-------------|
| Total Height (A)                 | 2.59"          | 66 mm       |
| Total Height (B)                 | 2.17"          | 55 mm       |
| Profile Width (C)                | 0.53"          | 13.5 mm     |
| Wall Gauge                       | 0.047"         | 1.19 mm     |
| Weight                           | 2.280 lbs/sqft | 11.1 kg/sqm |
| Maximum Area                     | 220 sqft       | 20.44 sqm   |
| Operator Limitations - Slat Name |                |             |
| Operator                         | Max sqft       | Max sqm     |
| Pulley (25 lbs)                  | 11 sqft        | 1.02 sqm    |
| Strap Crank (60 lbs)             | 26 sqft        | 2.42 sqm    |
| Gear Crank (71 lbs)              | 31 sqft        | 2.88 sqm    |
| Gear Assist (110 lbs)            | 48 sqft        | 4.46 sqm    |
| Motor 60mm Axle (194 lbs)        | 85 sqft        | 7.90 sqm    |
| Motor 70mm Axle (352 lbs)        | 154 sqft       | 14.31 sqm   |
| T8 Motor 100mm Axle (450 lbs)    | 220 sqft       | 20.44 sqm   |

|                 | Color Availability |              |
|-----------------|--------------------|--------------|
|                 | Curtain Colors     | Frame Colors |
| White           | •                  | •            |
| Cream           | •                  | •            |
| Beige           | •                  | •            |
| Bronze          | •                  | •            |
| Brown           |                    | •            |
| Grey            |                    | •            |
| Arcona Beige    |                    | •            |
| Anodized Silver | •                  |              |
| Metallic        |                    | •            |

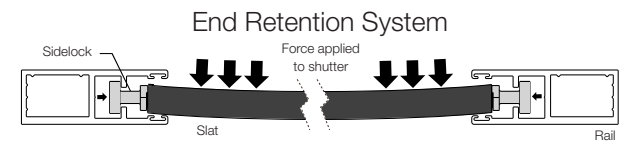
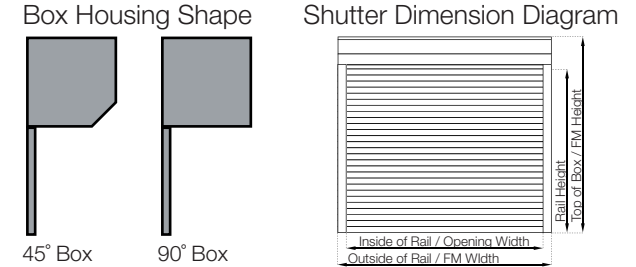
| Slat Details  |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>• Double Walled hollow extruded aluminum</li> <li>• Gauge 1.19 mm / 0.047"</li> <li>• Type 6005-T5, class1 anodized or powder coated finish.</li> <li>• Only available without light slits</li> <li>• Solar heat gain coefficient &amp; U values available upon request</li> </ul> |  |  |

| Sidelocks (Inserts for Other Profiles) |                    |    |
|--|--------------------|----|
| ER-55 for RLL55-X profile              | Black              | EA |
| Screws Rollac 1000                     | For Use with ER-55 | EA |

| Aluminum Base Slat for Maxi Slats  |  |  |
|--|--|--|
| Anodized Silver, Cream, White, Grey, Light Beige, Bronze, Dark Brown, Arcona Beige |  |  |

| Standard Rails - End Retention Side Rails - Maxi         |  |
|--|--|
| 76 mm x 28 mm (3.00" x 1.11")                            |  |
| 89 mm x 28 mm (3.50" x 1.06")                            |  |
| Anodized Silver, Cream, White, Grey, Light Beige, Bronze |  |

| Slat Deduction for Shutter Manufacturing - Retention Rails |                            |                        |
|--|----------------------------|------------------------|
| Slat   | Small Leg 45° & 90° 4"-10" | Large Leg 45° 10", 12" |
| 3/8" Slip  | 11.1 cm / 4 3/8"           | 12.3 cm / 4 7/8"       |
| 1/2" Slip  | 11.4 cm / 4 1/2"           | 12.6 cm / 4 15/16"     |
| < 1/8" Slip  | 11.6 cm / 4 9/16"          | 12.8 cm / 5 1/16"      |

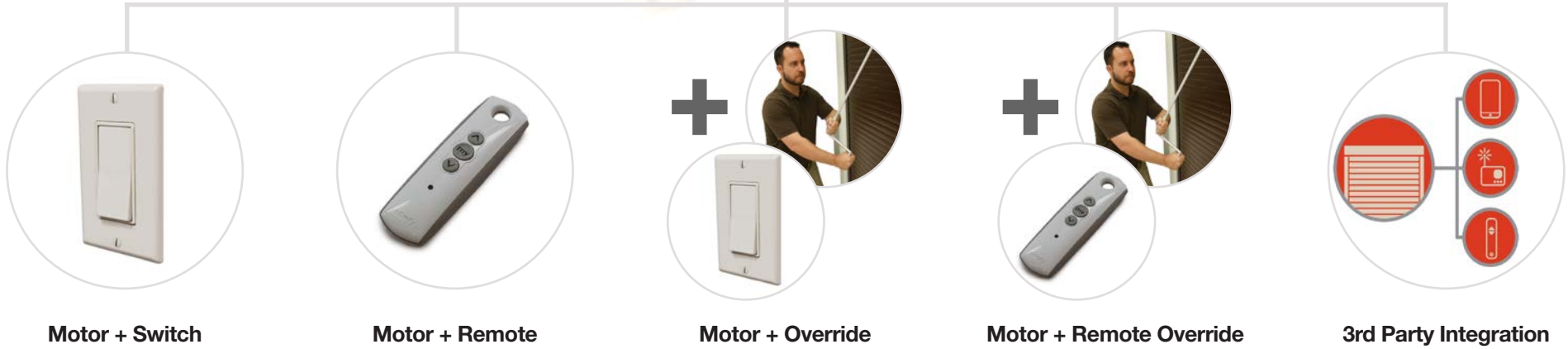


| Rail Height By Housing Size |              |       |       |              |       |       |              |       |       |
|-----------------------------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|
| Box Size                    | 7" (180 mm)  |       |       | 8" (205 mm)  |       |       | 9" (230 mm)  |       |       |
|                             | Axle         | 60 mm | 70 mm | 100 mm       | 60 mm | 70 mm | 100 mm       | 60 mm | 70 mm |
| RLL55-X-HD                  | 42"          | 42"   | N/A   | 63"          | 59"   | N/A   | 84"          | 80"   | 69"   |
| Box Size                    | 10" (250 mm) |       |       | 12" (300 mm) |       |       | 14" (350 mm) |       |       |
|                             | Axle         | 60 mm | 70 mm | 100 mm       | 60 mm | 70 mm | 100 mm       | 60 mm | 70 mm |
| RLL55-X-HD                  | 111"         | 100"  | 87"   | 152"         | 152"  | 137"  | 226"         | 226"  | 204"  |



# Operator Overview

Motorized Options



Each Option Includes Motorized Operation





## Operator Overview

Manual Options

---



**Recoil Box**



**Crank Box**



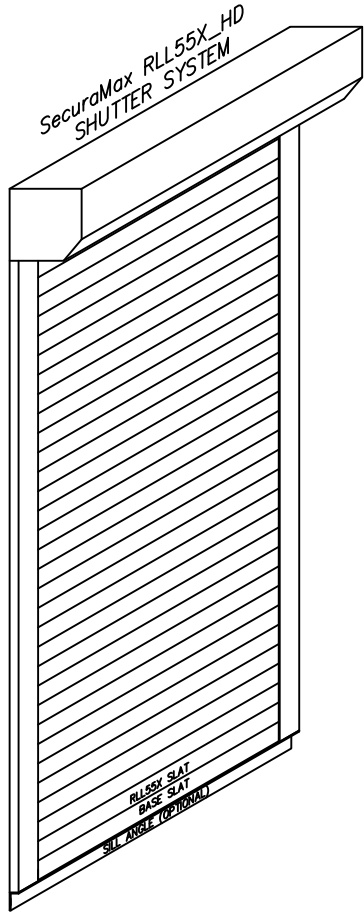
**Push / Pull System**



**Gear Drive / Crank Handle**



# The SecuraMax RLL55X\_HD - Shutter System System Overview and Technical Specifications

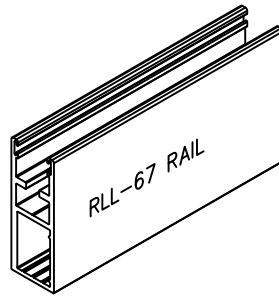
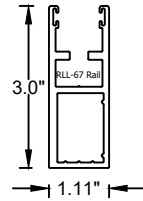


• Available Colors:

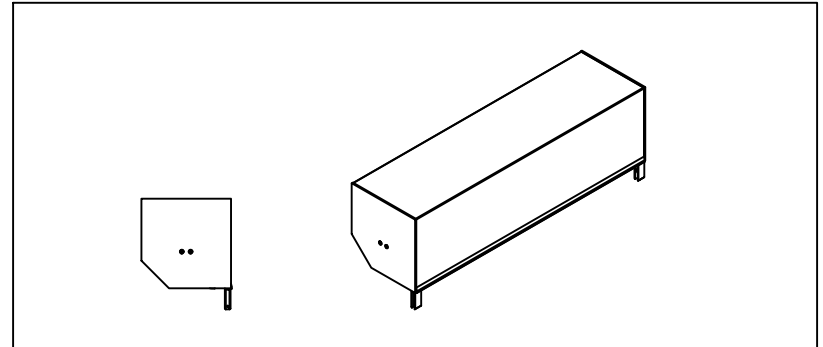
| Curtain             | Frame                     |
|---------------------|---------------------------|
| White               | White                     |
| Beige (Light Beige) | Beige (Light Beige)       |
| Cream               | Cream                     |
| Anodized            | Metallic                  |
| Bronze              | Bronze                    |
|                     | Arcona Beige (Dark Beige) |
|                     | Dark Brown                |
|                     | Grey                      |

• Available Rail Sizes:

- Standard 3.0"



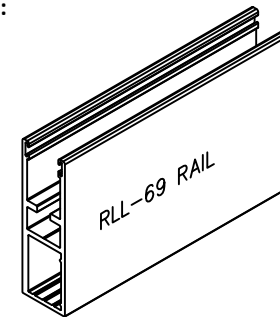
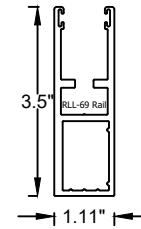
• Available Housing Design Choices - Side Cap 45°



- Miami Dade County Code NOA 15-0414.17
- Florida Building Code Approved FL12530.1
- Texas Department of Insurance Approved SHU 179

• Available Rail Sizes:

- Optional 3.5"



|   |         |            |   |  |                                       |
|---|---------|------------|---|--|---------------------------------------|
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|   | DRAWN   | TRAVIS E.  | 2017/03/15                              | DESCRIPTION:<br>SYSTEM SPECIFICATION SHEETS FOR<br>RLL55X_HD SHUTTER SYSTEM. |                                       |
|   | CHECKED | STEFAN P.  | 2017/03/15                              |  |                                       |
|   | APPR.   | YYYY/MM/DD |   | UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES                       |                                       |
| ANGLES  | ± .5    | ± .1       | ± .03                                   | ± .005   | SIZE DWG. NO.<br><b>A RLL55X HD A</b> |
| THIRD ANGLE PROJECTION  |         |            | SCALE: NONE   WEIGHT: XX.XLBS   1 OF 15 |  |                                       |

**• Required Minimum and Maximum Dimensions for Operators**

|                                      |          |
|--------------------------------------|----------|
| Manual System Min and Max Dimensions |          |
| System Width                         | 2' - 10' |
| System Height                        | 2' - 10' |
| Maximum System SQFT                  | 50 sqft  |

|  |          |
|--|----------|
| Motorized Systems Min and Max Dimensions |          |
| System Width                             | 3' - 16' |
| System Height                            | 3' - 10' |
| Maximum System SQFT                      | 220 sqft |

\*The system specifications and information herein are based on the dimensional recommendations. If a system requires dimensions outside the scope of these technical recommendations, special engineering and installations may be required. Always consult with Rollac first.

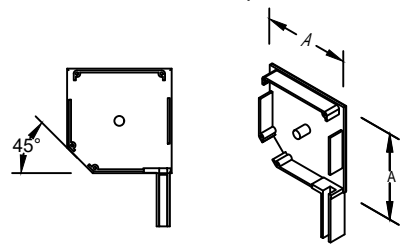
\*Different maximum opening width apply for installations that need to be compliant with hurricane codes, such as Miami Dade, Florida Building Code, or Texas Department of Insurance. See hurricane engineering for details.

|                            |                 |
|----------------------------|-----------------|
| System Weight              |                 |
| Approximate Systems Weight | 4.56 lbs / sqft |
| Curtain Weight             | 2.28 lbs / sqft |
| Profile Height             | 2.17"           |

**• Available Operators and SQFT Limitations**

|   |          |
|---|----------|
| Operator System Dimensions              | Max SQFT |
| Gear                                    | 26 sqft  |
| Gear + Assist Spring                    | 40 sqft  |
| Motor Regular Switch                    | 220 sqft |
| Motor with Over Ride                    | 220 sqft |
| Motor with Remote Control               | 220 sqft |
| Motor with Remote Control and Over Ride | 220 sqft |



**Dimensions of Side Cap 45°**



| Box           | A             |
|---------------|---------------|
| 5.0" (125mm)  | 4.72" (120mm) |
| 5.5" (137mm)  | 5.20" (132mm) |
| 6.0" (150mm)  | 5.71" (145mm) |
| 6.5" (165mm)  | 6.30" (160mm) |
| 7.0" (180mm)  | 6.89" (175mm) |
| 8.0" (205mm)  | 7.87" (200mm) |
| 9.0" (230mm)  | 8.86" (225mm) |
| 10.0" (250mm) | 9.65" (245mm) |

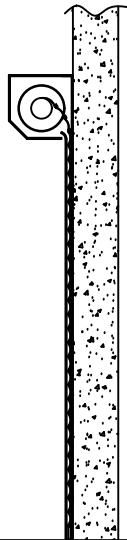
# The SecuraMax RLL55X\_HD - Shutter System

## System Overview and Technical Specifications

|   |         |           |  |            |
|---|---------|-----------|--|------------|
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|   | DRAWN   | TRAVIS E. |  | 2017/02/15 |
|   | CHECKED | STEFAN P. |  | 2017/03/15 |
|   | APPR.   |           |  | YYYY/MM/DD |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES   |         |           | SIZE DWG. NO.<br><b>A RLL55X HD A</b>  |            |
| ANGLES  | .X      | .XX       |  | XXX        |
|   | ± .5    | ± .1      | ± .03  | ± .005     |
|  THIRD ANGLE PROJECTION  |         |           | SCALE: NONE   WEIGHT: XX.XLBS   2 OF 15  |            |

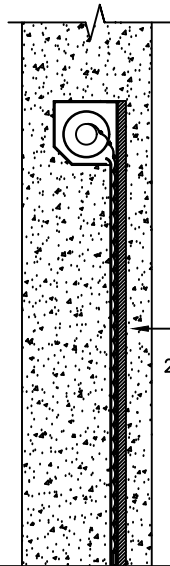


# SHUTTER MOUNTING OPTIONS



**SURFACE MOUNT**

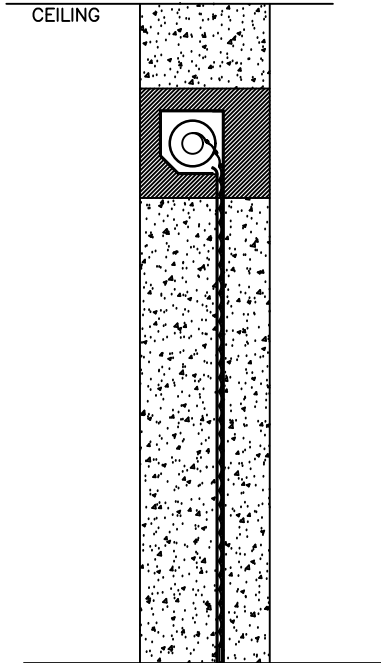
SEE PAGE # 4  
FOR DETAILS



**RECESS/JAMB MOUNT**

SEE PAGE # 5  
FOR DETAILS

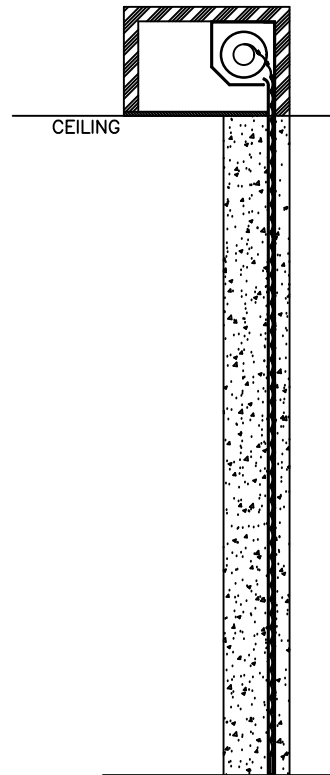
2" X 2"  
ANGLE



**INWALL MOUNT**

SEE PAGE # 6  
FOR DETAILS

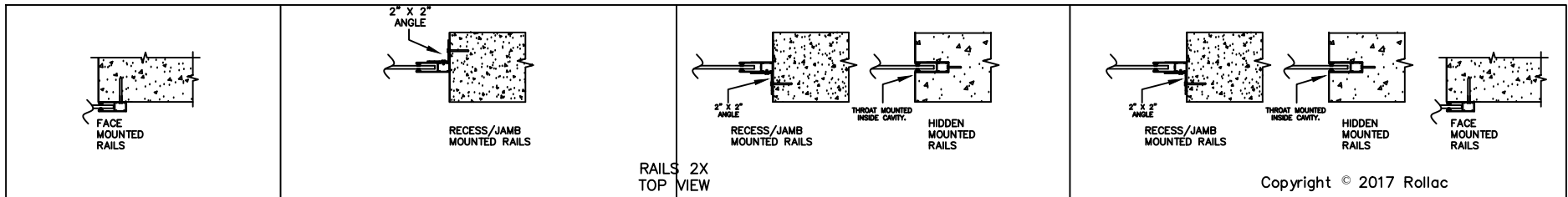
CEILING



**ABOVE CEILING/SOFFIT MOUNT**

SEE PAGE # 7  
FOR DETAILS

CEILING



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## RAIL MOUNTING OPTIONS BY SHUTTER MOUNT METHODS



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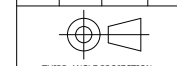
|         |           |            |
|---------|-----------|------------|
| DRAWN   | TRAVIS E. | 2017/03/15 |
| CHECKED | STEFAN P. | 2017/03/15 |
| APPR.   |           | YYYY/MM/DD |

|      |      |          |
|------|------|----------|
| NAME | DATE | PROJECT: |
|      |      |          |

DESCRIPTION:  
SYSTEM SPECIFICATION SHEETS FOR  
RLL55X\_HD SHUTTER SYSTEM.

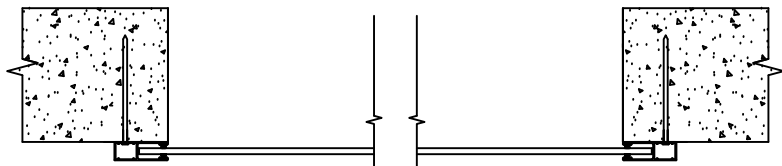
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES

|        |      |       |        |
|--------|------|-------|--------|
| ANGLES | .X   | .XX   | .XXX   |
| ± .5   | ± .1 | ± .03 | ± .005 |

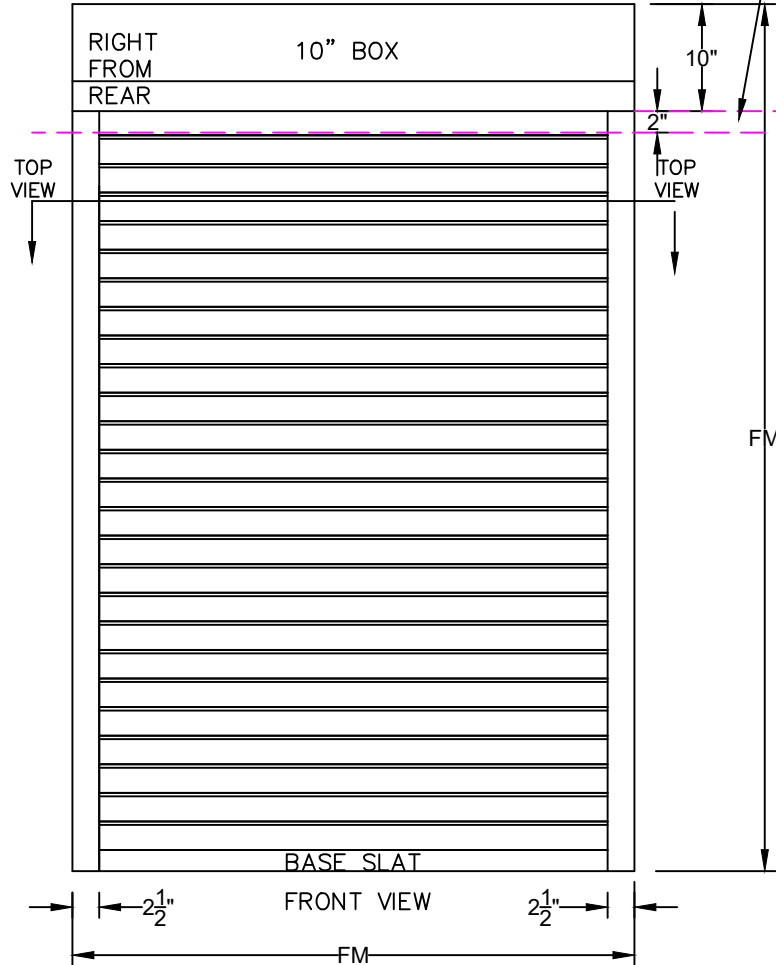


THIRD ANGLE PROJECTION

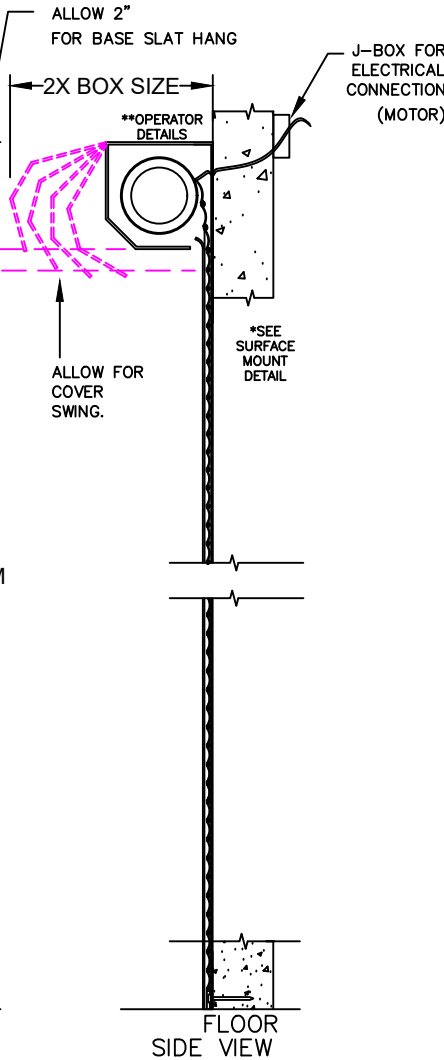
|                    |                 |
|--------------------|-----------------|
| SIZE DWG. NO.      | REV             |
| <b>A RLL55X HD</b> | <b>A</b>        |
| SCALE: NONE        | WEIGHT: XX.XLBS |
| 3 OF 15            |                 |



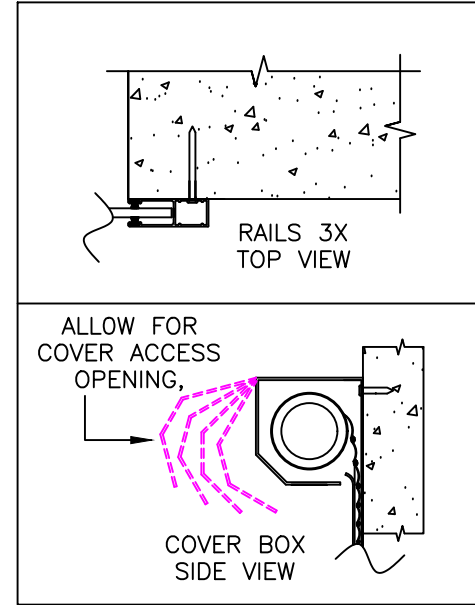
TOP VIEW SHOWING CURTAIN AND RAILS.  
SCALE = 2X



# SHUTTER SURFACE MOUNT

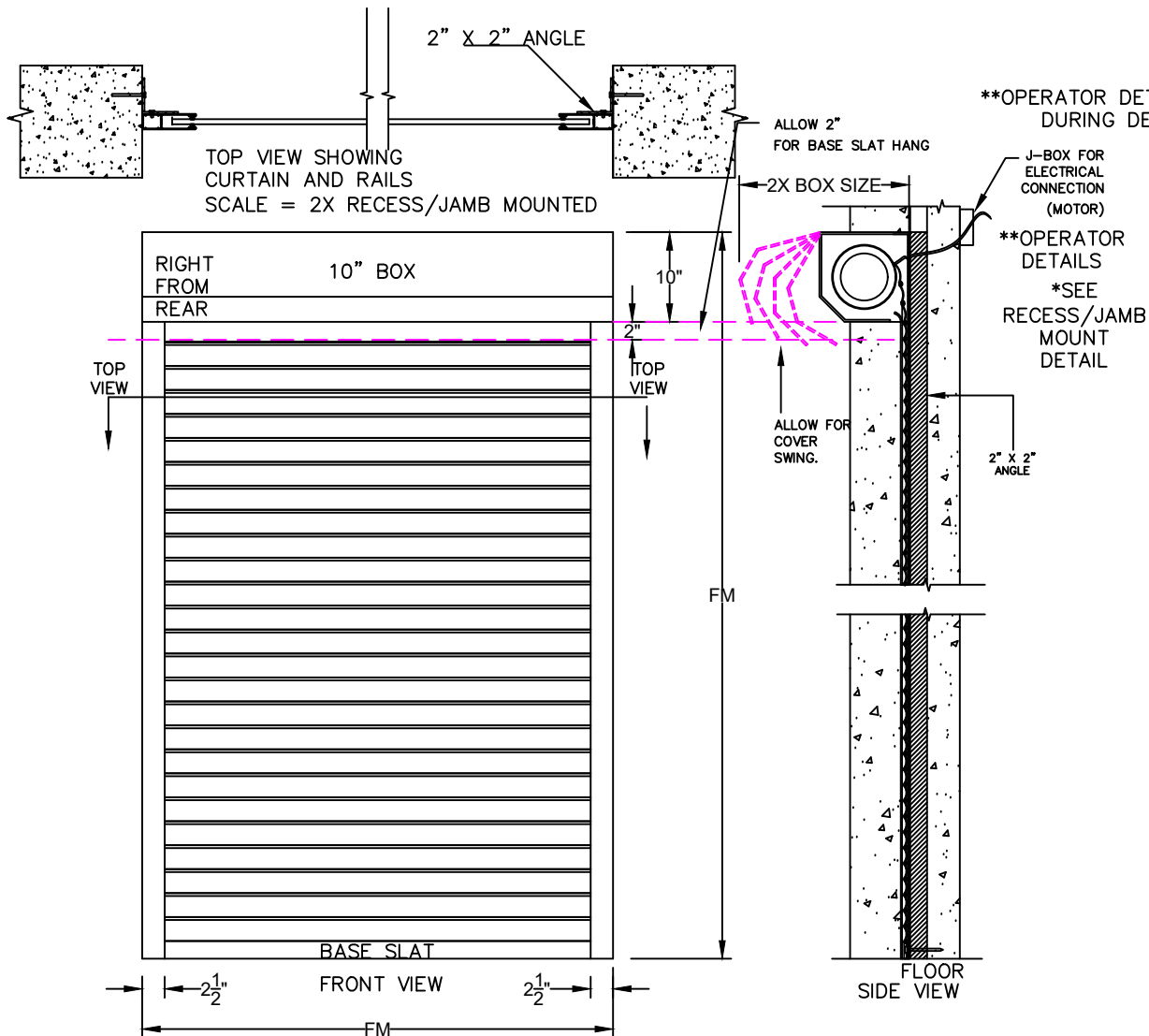


\*\*OPERATOR DETAILS TO BE SPECIFIED DURING DETAILED PLANNING.



\*SURFACE MOUNT DETAIL  
RAILS AND COVER BOX  
Copyright © 2017 Rollac

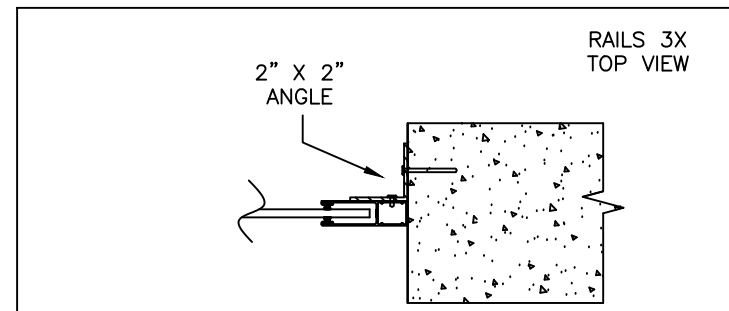
|   |                   |              |  |                 |
|---|-------------------|--------------|--|-----------------|
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|   | DRAWN TRAVIS E.   | 2017/03/15   | DESCRIPTION:<br>SYSTEM SPECIFICATION SHEETS FOR<br>RLL55X_HD SHUTTER SYSTEM. |                 |
|   | CHECKED STEFAN P. | 2017/03/15   |  |                 |
|   | APPR.             | YYYY/MM/DD   |  |                 |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES  |                   |              | SIZE DWG. NO.  |                 |
| ANGLES<br>± .5  | .X<br>± .1        | .XX<br>± .03 | .XXX<br>± .005   | REV<br><b>A</b> |
| THIRD ANGLE PROJECTION  |                   |              | SCALE: NONE   WEIGHT: XX.XLBS   4 OF 15                                      |                 |



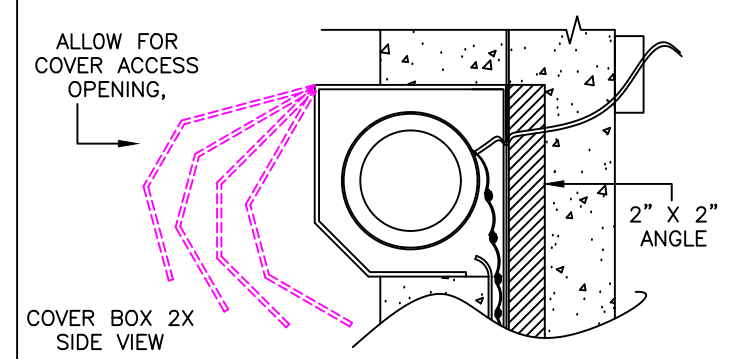
# RECESS/JAMB MOUNT

\*\*OPERATOR DETAILS TO BE SPECIFIED DURING DETAILED PLANNING.

J-BOX FOR ELECTRICAL CONNECTION (MOTOR)  
 \*\*OPERATOR DETAILS \*SEE RECESS/JAMB MOUNT DETAIL



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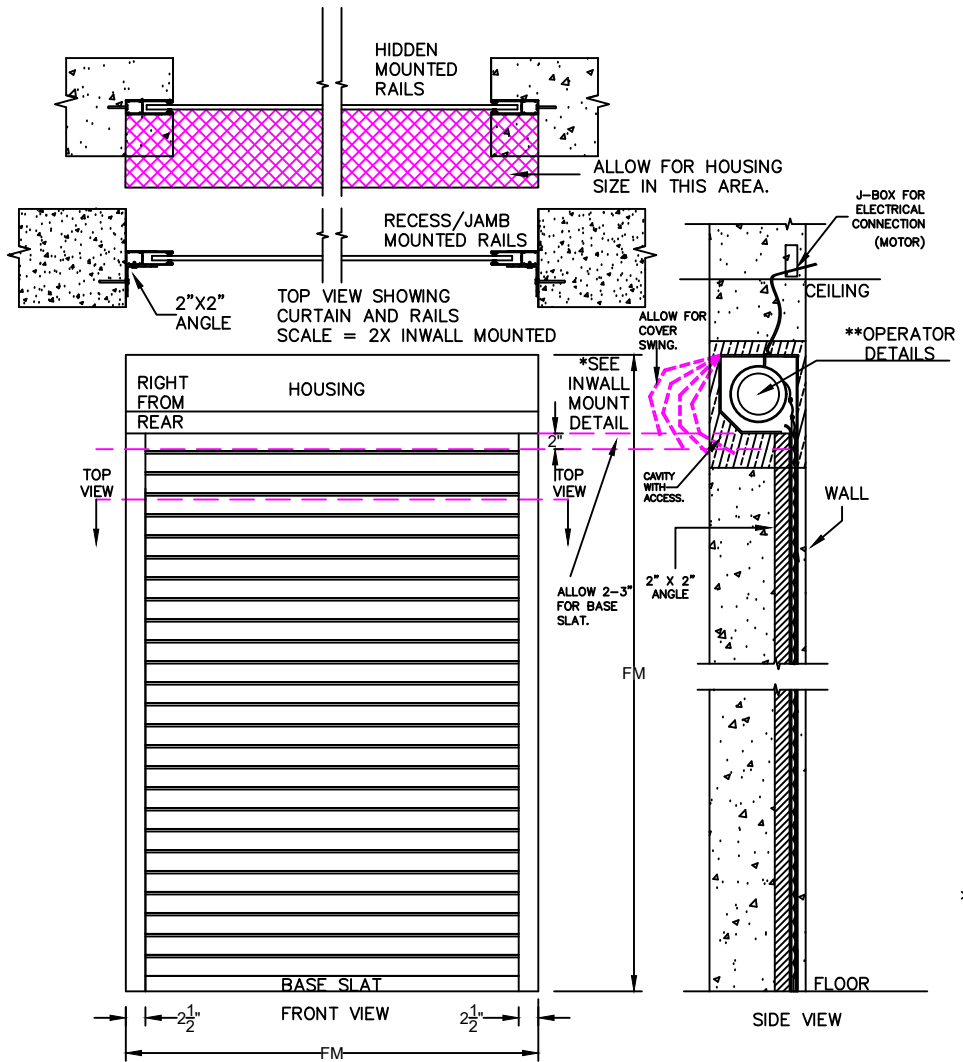


## \*RECESS/JAMB MOUNT DETAIL RAILS AND COVER BOX

|   |                   |            |   |
|---|-------------------|------------|---|
|   | NAME              | DATE       | PROJECT:  |
|   | DRAWN TRAVIS E.   | 2017/03/15 |   |
|   | CHECKED STEFAN P. | 2017/03/15 | DESCRIPTION:  |
|   | APPR.             | YYYY/MM/DD | SYSTEM SPECIFICATION SHEETS FOR RLL55X_HD SHUTTER SYSTEM. |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |                   |            |   |
| ANGLES  | .X<br>± .5        | .XX<br>± 1 | .XXX<br>± .03   |
|   |                   |            | SIZE DWG. NO.<br><b>A RLL55X HD A</b>                     |
| THIRD ANGLE PROJECTION                              |                   |            | SCALE: NONE   WEIGHT: XX.XLBS   5 OF 15                   |

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# INWALL MOUNT SHUTTER RAILS CAN BE MOUNTED HIDDEN OR RECESS/JAMB MOUNTED

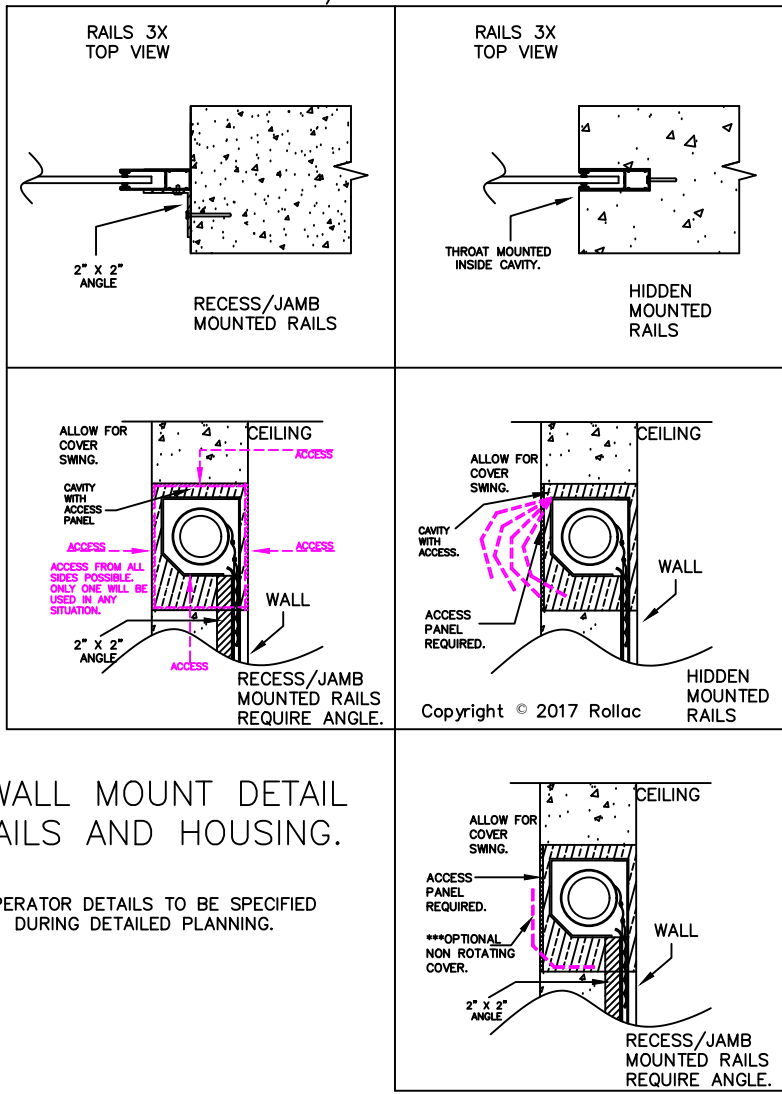


## INWALL MOUNT

INWALL MOUNTED SHUTTERS ARE USUALLY MOUNTED INSIDE A CAVITY WITHIN THE HEADER ABOVE THE OPENING.

AN ACCESS PANEL WILL HAVE TO BE PROVIDED TO ENABLE INSTALLATION AND SERVICE. ACCESS CAN BE FROM EITHER SIDE, TOP OR BOTTOM. ACCESS TO BE DETERMINED DURING DETAIL SPECIFICATION.

THE OPTIONAL NON ROTATING COVER ALLOWS EASIER ACCESS INSIDE THE ACCESS PANEL IN SOME INSTALLATIONS. CONTACT ROLLAC FOR MORE DETAILS.



\*INWALL MOUNT DETAIL  
RAILS AND HOUSING.

\*\*OPERATOR DETAILS TO BE SPECIFIED  
DURING DETAILED PLANNING.

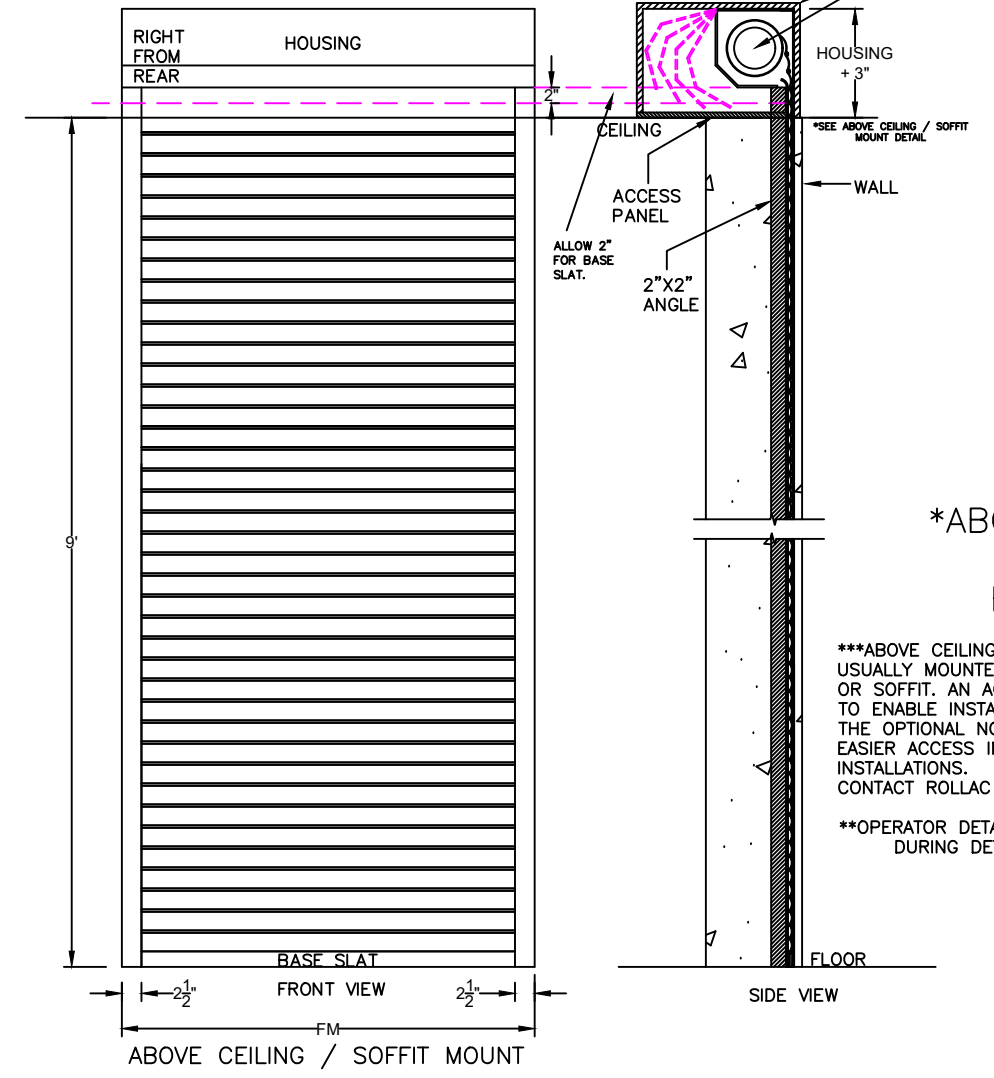
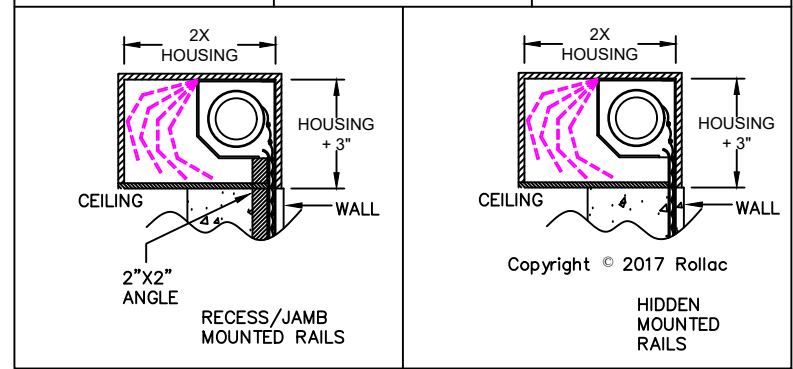
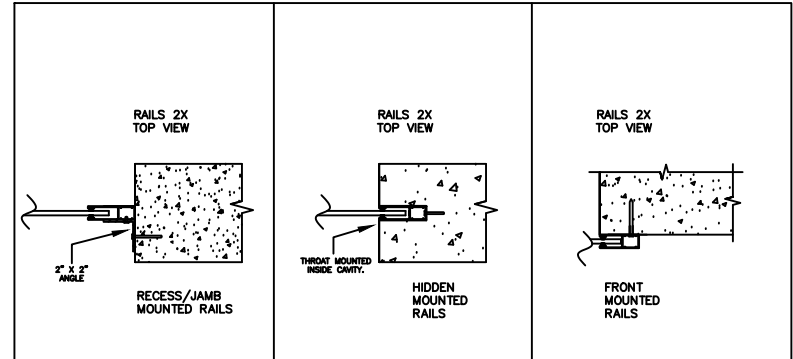
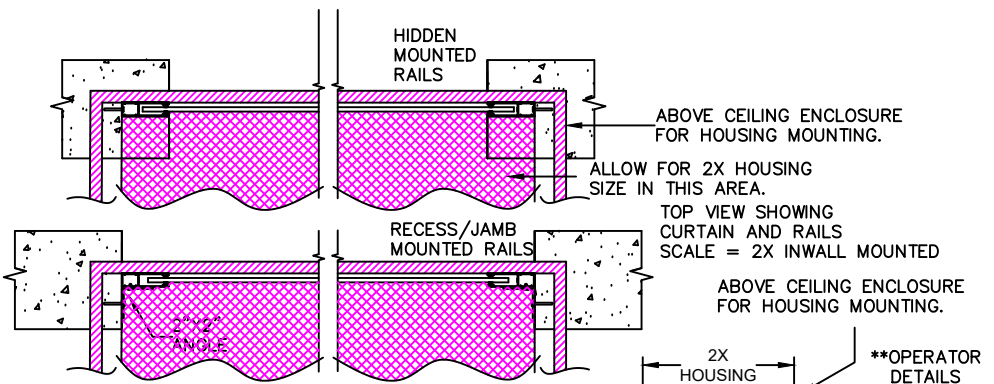


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|   |                        |   |
|---|------------------------|---|
| NAME  | DATE                   | PROJECT:  |
| DRAWN TRAVIS E.                                     | 2017/03/15             |   |
| CHECKED STEFAN P.                                   | 2017/03/15             | DESCRIPTION:  |
| APPR.   | YYYY/MM/DD             | SYSTEM SPECIFICATION SHEETS FOR RLL55X_HD SHUTTER SYSTEM. |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |                        |   |
| ANGLES  | X .XXX                 |   |
|   | + .5 + .1 + .03 ± .005 |   |
| <br>THIRD ANGLE PROJECTION                          |                        |   |

|                    |                 |
|--------------------|-----------------|
| SIZE DWG. NO.      | REV             |
| <b>A</b> RLL55X HD | <b>A</b>        |
| SCALE: NONE        | WEIGHT: XX.XLBS |
| 6 OF 10            |                 |

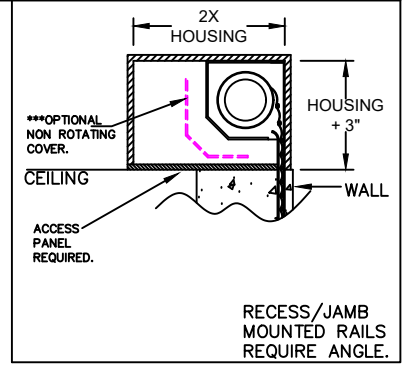
ABOVE CEILING / SOFFIT MOUNT SHUTTER RAILS CAN BE FRONT MOUNTED, HIDDEN OR RECESS/JAMB MOUNTED.



\*ABOVE CEILING / SOFFIT MOUNT DETAIL RAILS AND HOUSING.

\*\*\*ABOVE CEILING/SOFFIT MOUNTED SHUTTERS ARE USUALLY MOUNTED INSIDE A CAVITY ABOVE THE CEILING OR SOFFIT. AN ACCESS PANEL WILL HAVE TO BE PROVIDED TO ENABLE INSTALLATION AND SERVICE. THE OPTIONAL NON ROTATING COVER ALLOWS EASIER ACCESS INSIDE THE ACCESS PANEL IN SOME INSTALLATIONS. CONTACT ROLLAC FOR MORE DETAILS.

\*\*OPERATOR DETAILS TO BE SPECIFIED DURING DETAILED PLANNING.



|  |            |             |                                     |  |
|--|------------|-------------|-------------------------------------|--|
| <p>Copyright © 2017 Rollac<br/>V2.28.2017<br/>ROLLAC ROLLING SHUTTERS<br/>5331 W. ORANGE ST.<br/>PEARLAND, TX 77581<br/>TEL: 281-485-1911<br/>WWW.ROLLAC.COM</p> | NAME       | DATE        | PROJECT:                            |  |
|  | DRAWN      | TRAVIS E.   | 2017/03/15                          | DESCRIPTION:<br>SYSTEM SPECIFICATION SHEETS FOR<br>RLL55X_HD SHUTTER SYSTEM. |
|  | CHECKED    | STEFAN P.   | 2017/03/15                          |  |
|  | APPR.      |             | YYYY/MM/DD                          |  |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES   |            |             | SIZE DWG. NO.<br><b>A RLL55X HD</b> |  |
| ANGLES   | .X<br>± .5 | .XX<br>± .1 |                                     | XXX<br>± .03   |
| THIRD ANGLE PROJECTION   |            |             | REV<br><b>A</b>                     |  |
|  |            |             | SCALE: NONE WEIGHT: XX.XLBS 7 OF 15 |  |

## Recommended Fastener - Schedule RLL55X\_HD

| Substrate                        | Type of Screw   | Commonly Used  | Minimum Embedment (E.D.)  | Minimum Edge Distance | Screw Hole Spacing  |
|----------------------------------|---|--|---|-----------------------|---|
| Wood Framing                     | #14 Wood or Lag Screw<br>Pan Head, Phillips                   | Wood Screw #14 Stainless Steel,<br>Pan Head, Phillips<br>STUCCO: #14 x 3*,<br>FIBER CEMENT BOARD: #14 x 3<br>BRICK-VENEER: #14 x 4<br>(Screw length depends on brick<br>size and distance to wood framing) | 1.5" Threaded Penetration<br>to Existing Wood Stud  | 2" Edge Distance      | <b>Drill hole Spacing:</b> 12"<br>Approximately every 12" or less<br>starting 4" from the bottom up to<br>4" from the top.<br><br><b>Drill hole Size:</b>   |
| Concrete                         | #14 Screw Pan Head, Phillips<br>with S7 Fisher Anchor or Plug | #14 X 2" screw with Fisher S7<br>Anchor or Plug Please.  | Follow the installation instructions<br>on the Fisher Plug but we<br>recommend the embedment to be<br>around 1.75" Minimum. | 3" Edge Distance      | The Standard Recommended<br>Drill hole is $\frac{1}{2}$ ". Rollac will do a<br>step drill with $\frac{1}{2}$ " entry and $\frac{1}{4}$ " exit<br>hole. This type of drill will fit all<br>#14 screws. |
| Aluminum / Build Out<br>/ Angles | #14 TEK Screw<br>Pan Head, Phillips                           | #14 X 1 Self Drilling PP SS TEK<br>(TEK = Self Drilling)   | n.a.  | n.a.                  | Please advise if other screws,<br>such as Tapcon Anchors, are<br>used as it will change the drill<br>size..   |
| Red Iron                         | TEKS 5 Screws #12 **<br>Hexagon Head, Phillips                | #12  | n.a.  | n.a.                  |   |
| Commercial<br>Aluminum Studs     | TEKS 5 Screws #12 **<br>Hexagon Head, Phillips                | #12  | n.a.  | n.a.                  |   |

### For Installation according to Hurricane Code like TDI or FBC \*\*\*

| Substrate   | Type of Screw  | Commonly Used  | Minimum Recommended<br>Embedment.  | Recommended<br>Edge Distance                      | Drill Spacing and<br>Rail Hole Size.   |
|---|--|--|--|---|--|
| Wood Framing  | $\frac{1}{4}$ " Diameter   | #14 x 4".<br>See Engineering for more<br>Details.        | 1.5" Threaded Penetration<br>to Existing Wood Stud. See<br>Engineering for more details. | 2" Edge Distance                                  | Standard $\frac{1}{4}$ " hole. Drill hole<br>spacing is typically 6" O.C.<br>For exact details see drill hold<br>spacing schedule within<br>engineering.                         |
| Poured Concrete<br>(For Concrete<br>Block Wall see<br>engineering). | $\frac{1}{4}$ " Tapcon Anchor as<br>manufactured by ITW Buildex. | $\frac{5}{16}$ " x 2.75" Tapcon XL Anchors               | 1.75" Minimum Embedment into<br>concrete. See Engineering for<br>details.                | 3" Edge Distance. See<br>Engineering for details. | <b>REQUIRES <math>\frac{5}{16}</math>" drill hole.</b> Drill<br>hole spacing is typically 6" O.C.<br>For exact details see drill hold<br>spacing schedule within<br>engineering. |
| Installation on<br>Aluminum/ Build Out.                             | $\frac{1}{4}$ " TEK Screw<br>Pan Head, Phillips                  | #14 X 1 Self Drilling PP SS TEK<br>(TEK = Self Drilling) | n.a.   | n.a.  | Standard $\frac{1}{4}$ " hole. Drill hole<br>spacing is typically 6" O.C.<br>For exact details see drill hold<br>spacing schedule within<br>engineering.                         |

\* No embedment into stucco shall be considered as part of the required embedment

\*\* Screw shall not be made out of stainless steel as material is too soft to drill into a steel structure. Use other corrosion resistant material

\*\*\* Fastener Schedule applies to face mount only. For other installation techniques, see engineering.

Installation contractor is to seal/caulk all shutter component edges which remain in continuous contact with the building to prevent wind / rain intrusion. Caulk and seal shutter tracks all around full length.

**Disclaimer: It is the responsibility of the installer to verify that the surface and structure is suitable to install a rolling shutter. Fastener schedule is a recommendation. Installer to verify that rolling shutter is securely fastened.**

**Choose Corrosion Resistant Material that is appropriate for the environment in which the product is being installed. Choose appropriate screw length to meet minimum embedment.**



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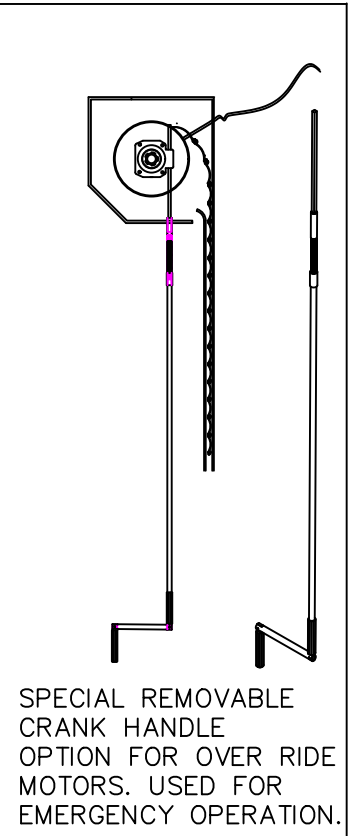
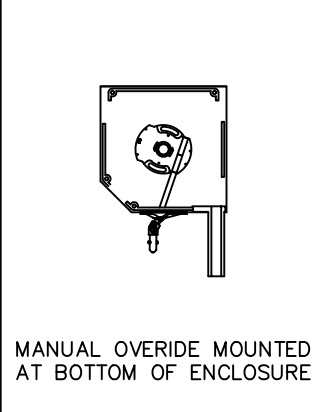
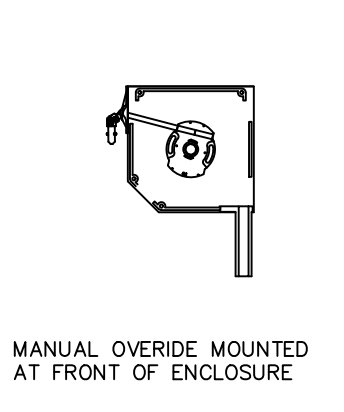
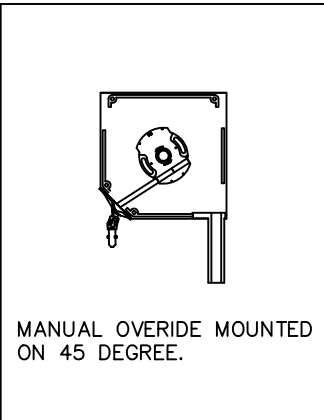
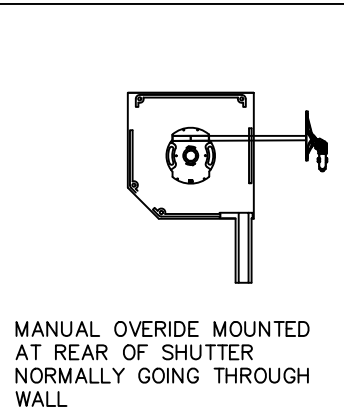
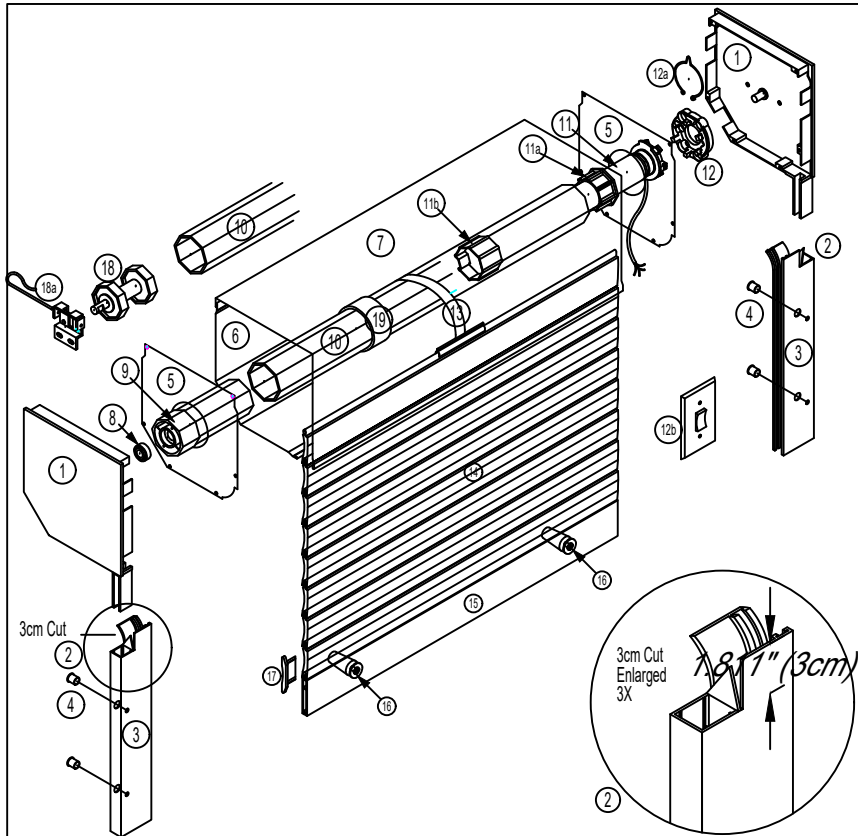
|  | NAME      | DATE         |
|--|-----------|--------------|
| DRAWN  | TRAVIS E. | 2017/03/15   |
| CHECKED  | STEFAN P. | 2017/03/15   |
| APPR.  |           | YYYY/MM/DD   |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES |           |              |
| ANGLES   | .X        | .XX          |
| ± .5   | ± .1      | ± .03 ± .005 |
| <br>THIRD ANGLE PROJECTION                             |           |              |

PROJECT:

DESCRIPTION:  
SYSTEM SPECIFICATION SHEETS FOR  
RLL55X\_HD SHUTTER SYSTEM.

|                    |                 |
|--------------------|-----------------|
| SIZE DWG. NO.      | REV             |
| <b>A RLL55X HD</b> | <b>A</b>        |
| SCALE: NONE        | WEIGHT: XX.XLBS |
| 8 OF 15            |                 |

MOTORIZED ROLLING SHUTTER MANUAL OVERRIDE OPTIONS.



- |                                 |                                       |                                       |
|---------------------------------|---------------------------------------|---------------------------------------|
| ① Side/End Cap                  | ⑨ Idler Insert (PVC)                  | ⑬ Springlock Hanger                   |
| ② 3cm Cut                       | ⑩ 60/70 mm Axle (Galvanized/Aluminum) | ⑭ RLL55X Slats                        |
| ③ Guide Rail With 3cm Cut       | ⑪ Tubular Motor                       | ⑮ Base Slat                           |
| ④ Plug Button                   | ⑪a Crown                              | ⑯ Exterior Nylon Stop                 |
| ⑤ Safety Plate                  | ⑪b Drive                              | ⑰ Side Lock                           |
| ⑥ Housing (Front/Bottom) 6"-10" | ⑫ Motor Bracket                       | ⑱ Idler (PVC)                         |
| ⑦ Housing (Top/Back) 6"-10"     | ⑫a Spring Ring                        | ⑱a Idler Bracket (Steel)              |
| ⑧ Ball Bearing                  | ⑫b Switch                             | ⑲ Axle Ring - PVC or Alum. (Optional) |

SecuraMax RLL55X\_HD Engaged System - MOTOR OPERATED  
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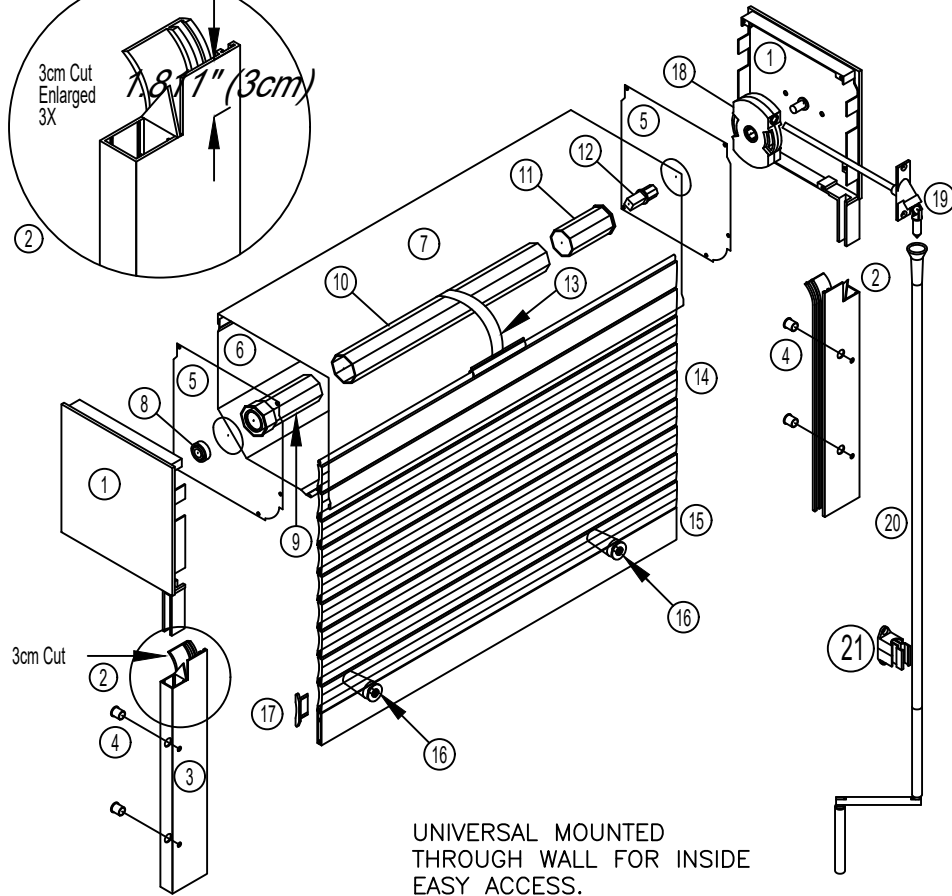
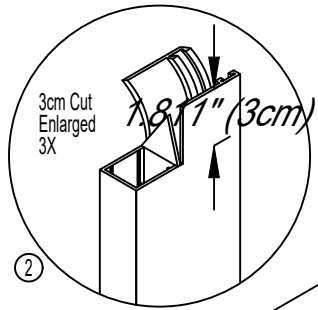
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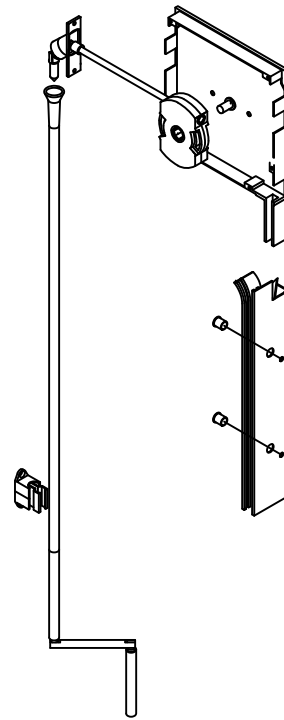
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 PEARLAND, TX 77581  
 TEL: 281-485-1911  
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|   |             |   |
|---|-------------|---|
| NAME  | DATE        | PROJECT:  |
| DRAWN TRAVIS E.                                     | 2017/03/15  |   |
| CHECKED STEFAN P.                                   | 2017/03/15  | DESCRIPTION:  |
| APPR.   | YYYY/MM/DD  | SYSTEM SPECIFICATION SHEETS FOR RLL55X_HD SHUTTER SYSTEM. |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |             |   |
| ANGLES  | .X .XX .XXX |   |
| ± .5 ± .1 ± .03 ± .005                              |             |   |
| THIRD ANGLE PROJECTION                              |             | SIZE DWG. NO. <b>A RLL55X HD A</b>                        |
|   |             | SCALE: NONE   WEIGHT: XX.XLBS   9 OF 15                   |

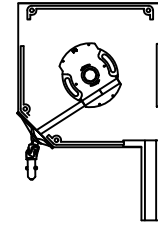
# ROLLING SHUTTER GEAR OPERATED OPTIONS



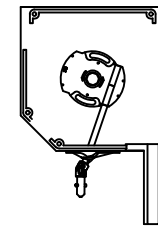
UNIVERSAL MOUNTED THROUGH WALL FOR INSIDE EASY ACCESS.



OPTION: UNIVERSAL MOUNTED ON OUTSIDE OF ENCLOSURE



OPTION: UNIVERSAL MOUNTED OUTSIDE ON 45 DEGREE.



OPTION: UNIVERSAL MOUNTED OUTSIDE AT BOTTOM OF ENCLOSURE

- |                                 |                                       |                           |
|---------------------------------|---------------------------------------|---------------------------|
| ① Side/End Cap                  | ⑧ Ball Bearing                        | ⑮ Base Slat               |
| ② 3cm Cut                       | ⑨ Idler Insert (PVC)                  | ⑯ Exterior Nylon Stop     |
| ③ Guide Rail With 3cm Cut       | ⑩ 40/60 mm Axle (Galvanized/Aluminum) | ⑰ Side Lock               |
| ④ Plug Button                   | ⑪ Gear Insert                         | ⑱ Gear                    |
| ⑤ Safety Plate                  | ⑫ Gear Connector                      | ⑲ Universal               |
| ⑥ Housing (Front/Bottom) 6"-10" | ⑬ Springlock Hanger                   | ⑳ Crank Handle            |
| ⑦ Housing (Top/Back) 6"-10"     | ⑭ RLL55X Slats                        | ㉑ Crank Holder (Optional) |

SecuraMax RLL55X\_HD Engaged System- GEAR OPERATED  
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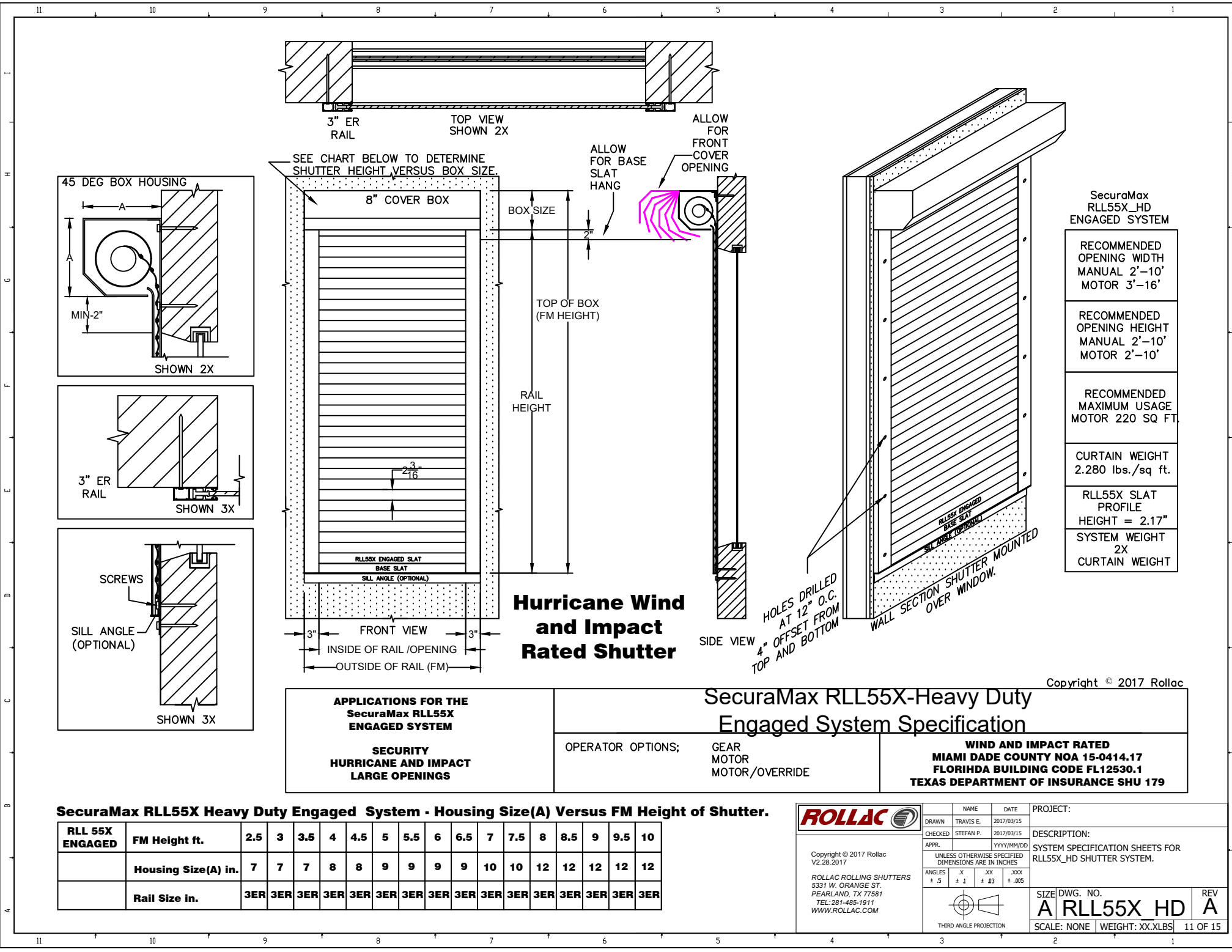
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|   |                    |   |
|---|--------------------|---|
| NAME  | DATE               | PROJECT:  |
| DRAWN TRAVIS E.                                     | 2017/03/15         |   |
| CHECKED STEFAN P.                                   | 2017/03/15         | DESCRIPTION:  |
| APPR.   | YYYY/MM/DD         | SYSTEM SPECIFICATION SHEETS FOR RLL55X_HD SHUTTER SYSTEM. |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |                    |   |
| ANGLES  | .X .XX .XXX        |   |
| ± .5 ± .1 ± .03 ± .005                              |                    |   |
| THIRD ANGLE PROJECTION                              | SIZE DWG. NO.      | REV   |
|   | <b>A RLL55X HD</b> | <b>A</b>  |
|   | SCALE: NONE        | WEIGHT: XX.XLBS   |
|   |                    | 10 OF 15  |





**SecuraMax  
RLL55X\_HD  
ENGAGED SYSTEM**

|  |
|--|
| RECOMMENDED<br>OPENING WIDTH<br>MANUAL 2'-10'<br>MOTOR 3'-16'  |
| RECOMMENDED<br>OPENING HEIGHT<br>MANUAL 2'-10'<br>MOTOR 2'-10' |
| RECOMMENDED<br>MAXIMUM USAGE<br>MOTOR 220 SQ FT.               |
| CURTAIN WEIGHT<br>2.280 lbs./sq ft.                            |
| RLL55X SLAT<br>PROFILE<br>HEIGHT = 2.17"                       |
| SYSTEM WEIGHT<br>2X<br>CURTAIN WEIGHT                          |

**Hurricane Wind  
and Impact  
Rated Shutter**

**APPLICATIONS FOR THE  
SecuraMax RLL55X  
ENGAGED SYSTEM**

**SECURITY  
HURRICANE AND IMPACT  
LARGE OPENINGS**

**SecuraMax RLL55X-Heavy Duty  
Engaged System Specification**

OPERATOR OPTIONS; GEAR MOTOR  
MOTOR/OVERRIDE

**WIND AND IMPACT RATED**  
**MIAMI DADE COUNTY NOA 15-0414.17**  
**FLORIHDA BUILDING CODE FL12530.1**  
**TEXAS DEPARTMENT OF INSURANCE SHU 179**

**SecuraMax RLL55X Heavy Duty Engaged System - Housing Size(A) Versus FM Height of Shutter.**

| RLL 55X<br>ENGAGED | FM Height ft.       | 2.5 | 3   | 3.5 | 4   | 4.5 | 5   | 5.5 | 6   | 6.5 | 7   | 7.5 | 8   | 8.5 | 9   | 9.5 | 10  |
|--------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                    | Housing Size(A) in. | 7   | 7   | 7   | 8   | 8   | 9   | 9   | 9   | 9   | 10  | 10  | 12  | 12  | 12  | 12  | 12  |
|                    | Rail Size in.       | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER | 3ER |

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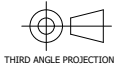
|  |                                       |
|--|---------------------------------------|
| NAME   | DATE                                  |
| TRAVIS E.  | 2017/03/15                            |
| CHECKED  | 2017/03/15                            |
| STEFAN P.  |                                       |
| APPR.  | YYYY/MM/DD                            |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES |                                       |
| ANGLES   | .X .XX .XXX<br>± .5 ± .1 ± .03 ± .005 |

PROJECT:

DESCRIPTION:  
SYSTEM SPECIFICATION SHEETS FOR  
RLL55X\_HD SHUTTER SYSTEM.

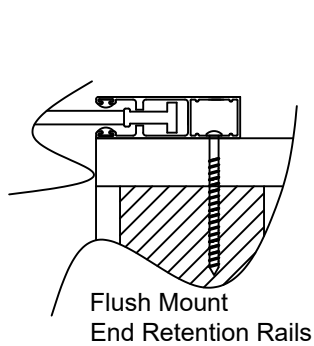
SIZE DWG. NO.  
**A RLL55X HD A**

SCALE: NONE WEIGHT: XX.XLBS 11 OF 15

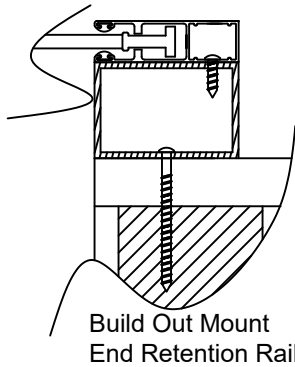


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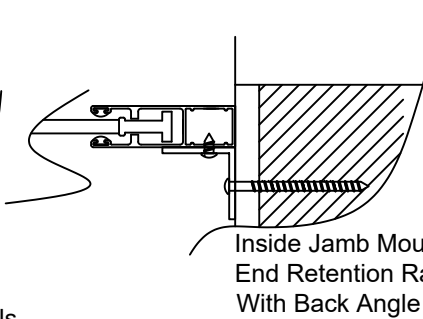
# MOUNTING OPTIONS "END RETENTION" RAILS



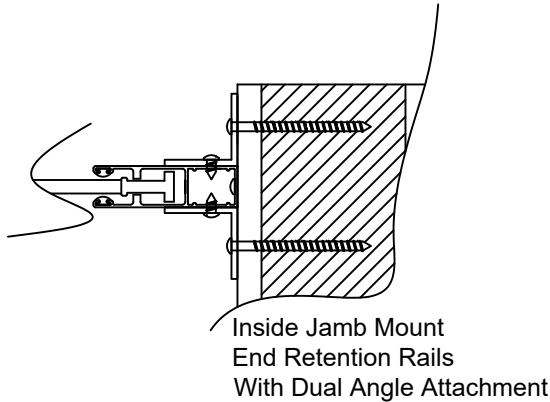
Flush Mount  
End Retention Rails



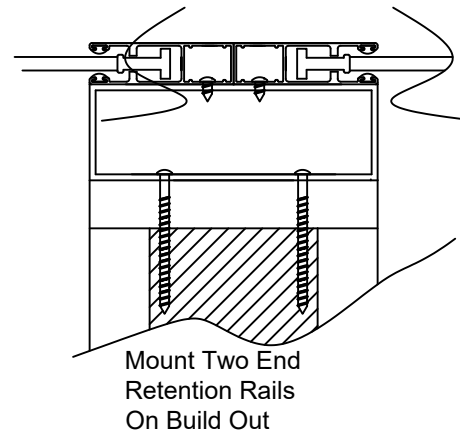
Build Out Mount  
End Retention Rails



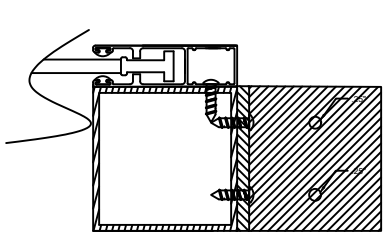
Inside Jamb Mount  
End Retention Rails  
With Back Angle Attachment



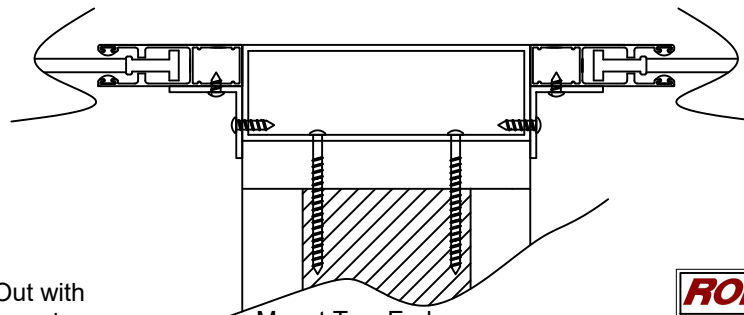
Inside Jamb Mount  
End Retention Rails  
With Dual Angle Attachment



Mount Two End  
Retention Rails  
On Build Out



3 Inch X 3 Inch Clip.  
Mounted to 3 Inch X 3 inch Build Out with  
rails attached. Use one clip at floor and  
ceiling for each rail to mount shutter  
when no other mounting options are  
available. Other sizes are available.



Mount Two End  
Retention Rails Flush  
On Build Out With Angles

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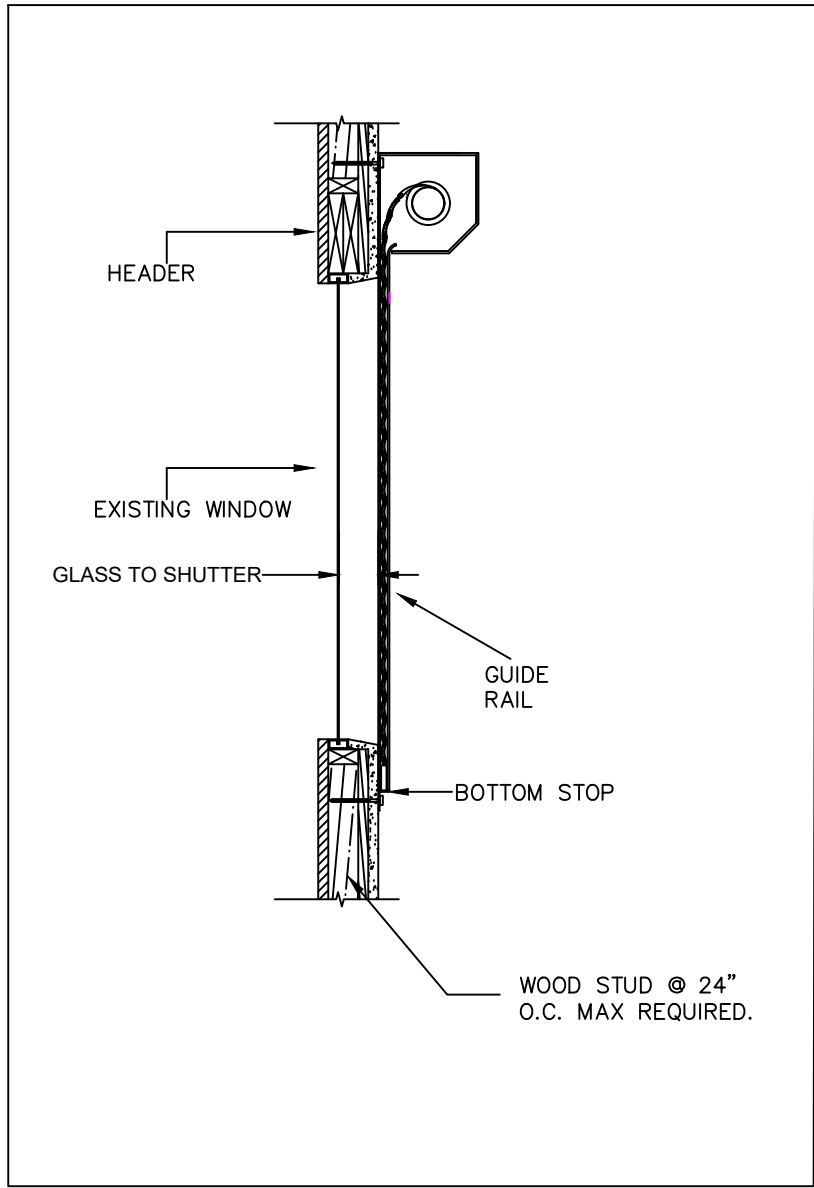
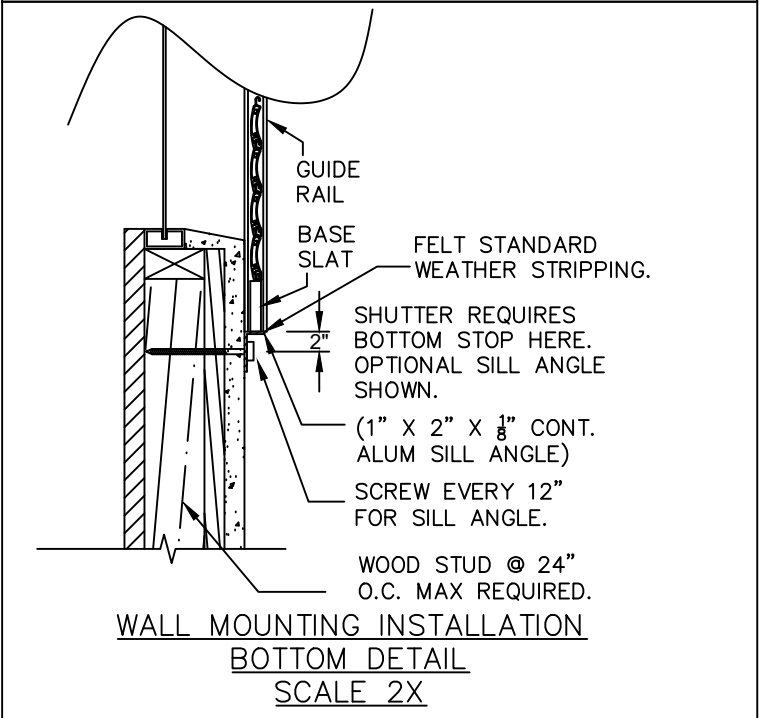
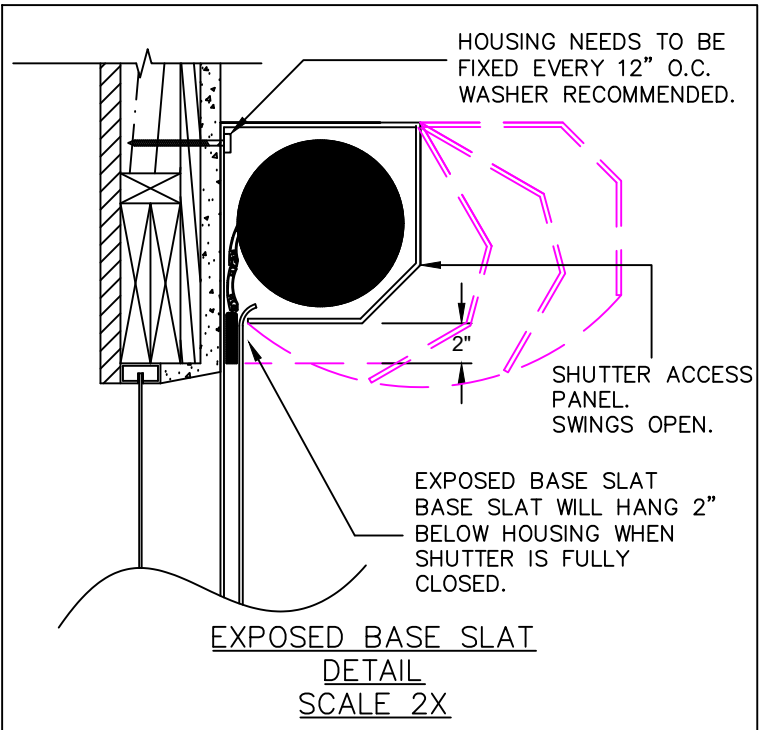
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PEARLAND, TX 77581  
TEL: 281-485-1911  
WWW.ROLLAC.COM

|  |             |  |
|--|-------------|--|
| NAME   | DATE        | PROJECT:   |
| DRAWN TRAVIS E.  | 2017/03/15  |  |
| CHECKED STEFAN P.                                      | 2017/03/15  | DESCRIPTION:   |
| APPR.  | YYYY/MM/DD  | SYSTEM SPECIFICATION SHEETS FOR<br>RLL55X_HD SHUTTER SYSTEM. |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES |             |  |
| ANGLES   | .X .XX .XXX |  |
| ± .5 ± .1 ± .03 ± .005                                 |             |  |



THIRD ANGLE PROJECTION

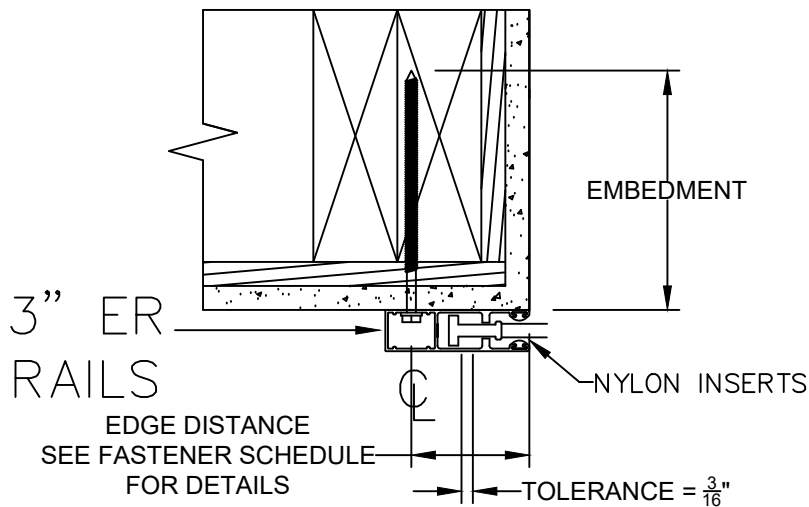
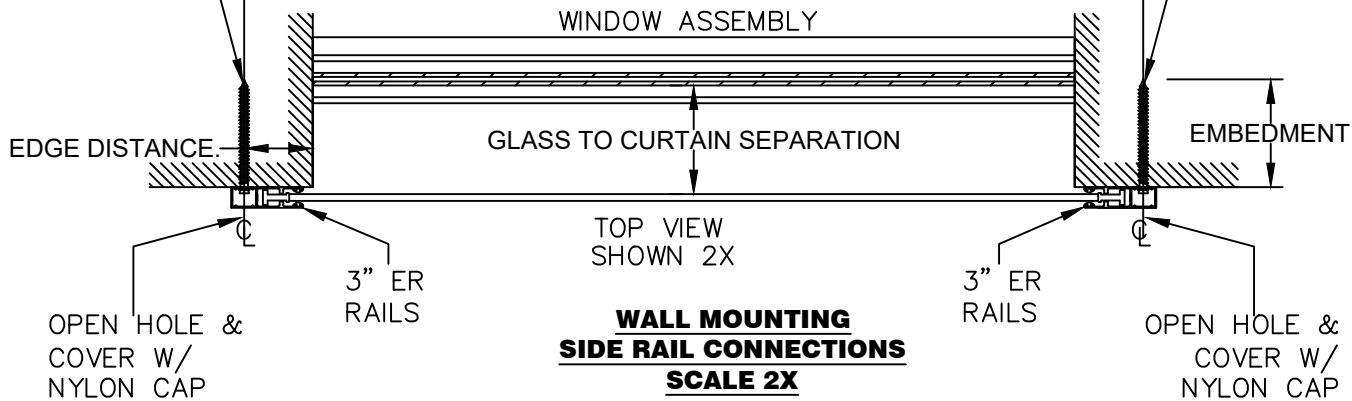
|             |                 |          |
|-------------|-----------------|----------|
| SIZE        | DWG. NO.        | REV      |
| A           | RLL55X HD       | A        |
| SCALE: NONE | WEIGHT: XX.XLBS | 12 OF 15 |



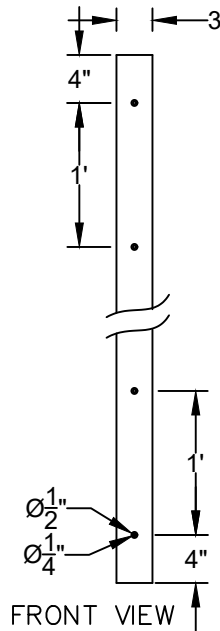
|  |           |            |                    |   |
|--|-----------|------------|--------------------|---|
| <b>ROLLAC</b>  |           | NAME       | DATE               | PROJECT:  |
| DRAWN  | TRAVIS E. | 2017/03/15 |                    |   |
| CHECKED  | STEFAN P. | 2017/03/15 |                    | DESCRIPTION:  |
| APPR.  |           | YYYY/MM/DD |                    | SYSTEM SPECIFICATION SHEETS FOR RLL55X_HD SHUTTER SYSTEM. |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  |           |            |                    |   |
| ANGLES   | .X        | .XX        | .XXX               |   |
|  | ± .5      | ± .1       | ± .03              | ± .005  |
| Copyright © 2017 Rollac V2.28.2017   |           |            |                    |   |
| ROLLAC ROLLING SHUTTERS<br>5331 W. ORANGE ST.<br>PEARLAND, TX 77581<br>TEL: 281-485-1911<br>WWW.ROLLAC.COM |           |            |                    |   |
| THIRD ANGLE PROJECTION   |           |            | SIZE DWG. NO.      | REV   |
|  |           |            | <b>A RLL55X HD</b> | <b>A</b>  |
| SCALE: NONE  |           |            | WEIGHT: XX.XLBS    | 13 OF 15  |

(SEE FASTENER SCHEDULE FOR SCREW TYPE AND SPACING)

(SEE FASTENER SCHEDULE FOR SCREW TYPE AND SPACING)



**WALL MOUNTING SIDE RAIL CONNECTIONS TO WOOD CONSTRUCTION WALL SCALE 2X**



RAIL DETAIL—STANDARD RAIL

RAIL HOLES ARE SPACED ABOUT 12" APART BEGINNING 4" FROM TOP AND BOTTOM. THE OUTSIDE HOLE IS  $\frac{1}{2}$ " AND THE INSIDE HOLE IS  $\frac{1}{4}$ " STANDARD. NYLON CAPS WILL BE PROVIDED FOR COVERING THE HOLES AFTER INSTALLATION.

\* INSTALLATION TO CODE MIGHT VARY. CALL ROLLAC FOR DETAILS.

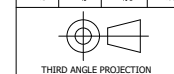


|                   |            |   |
|-------------------|------------|---|
| NAME              | DATE       | PROJECT:  |
| DRAWN TRAVIS E.   | 2017/03/15 |   |
| CHECKED STEFAN P. | 2017/03/15 | DESCRIPTION:  |
| APPR.             | YYYY/MM/DD | SYSTEM SPECIFICATION SHEETS FOR RLL55X_HD SHUTTER SYSTEM. |

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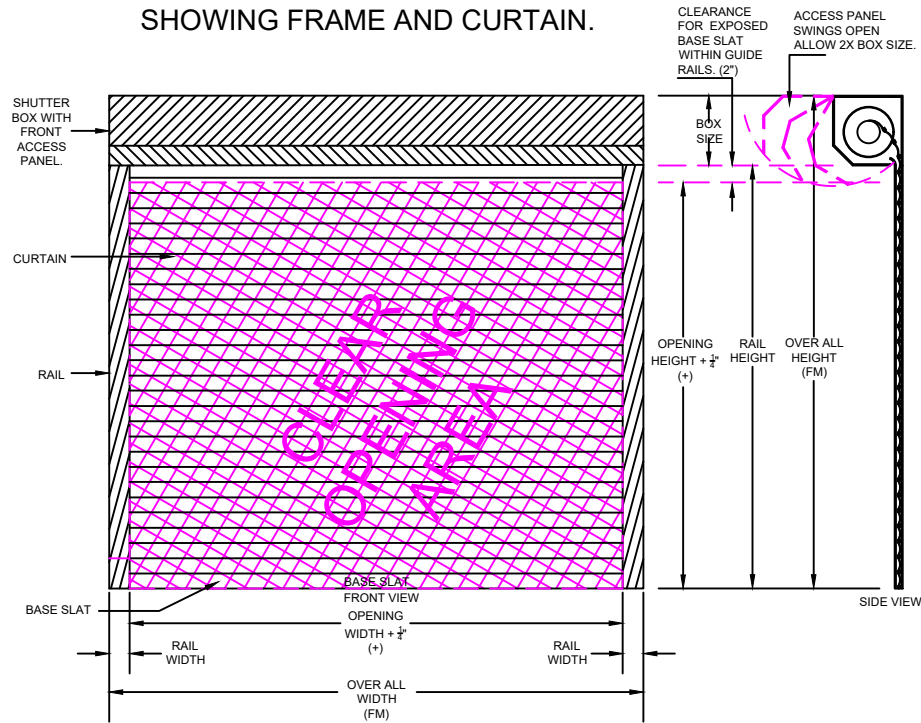
|   |      |       |        |
|---|------|-------|--------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |      |       |        |
| ANGLES  | .X   | .XX   | .XXX   |
| ± .5  | ± .1 | ± .03 | ± .005 |



|               |                 |
|---------------|-----------------|
| SIZE DWG. NO. | REV             |
| A RLL55X_HD   | A               |
| SCALE: NONE   | WEIGHT: XX.XLBS |
| 14 OF 15      |                 |

# COMMON TERMS USED FOR ROLLING SHUTTERS

## MEASUREMENT AND PLANNING GUIDE FOR ROLLING SHUTTERS SHOWING FRAME AND CURTAIN.



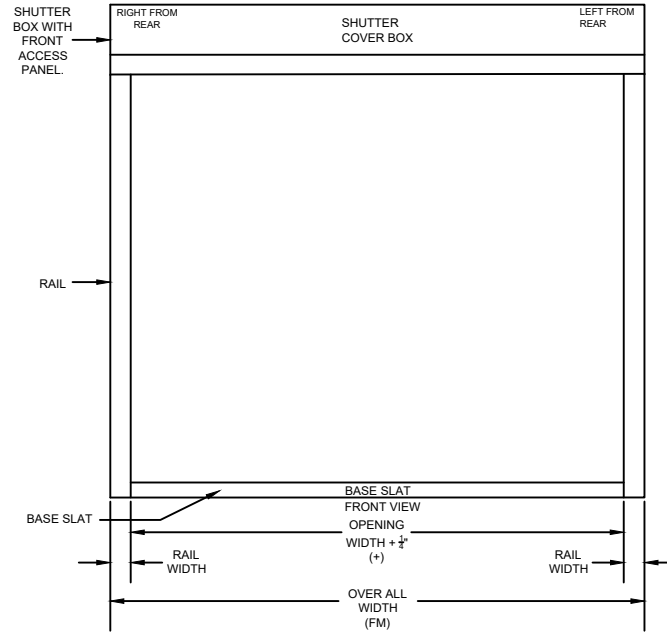
### Measuring for rolling shutters is easy once you know what issues to consider

- 1) Consider the way a rolling shutter will need to be installed. Is the area free of obstruction or will you need to fit the shutter within a certain space?  
The answer to this question will tell you whether you should use a plus (+) measurement or FM measurement.
- 2) Consider the height of the shutter. The taller the shutter, the larger the box size. In addition to the added height for the box, some space should be allowed for the base slat of a fully open shutter in order to keep the view from inside unobstructed.
- 3) Consider the width of the shutter. Adding either 5 inches for mini rails or 6 inches for maxi rails is a good general rule to follow. Keep in mind, however, that this is only a guideline, and technical changes may be made when necessary.
- 4) Consider how power is supplied to the shutter and the location of any control switches. Consider Tape or Crank placement if manual.

If you have any questions about this measuring and planning guideline, please don't hesitate to contact us at (281)485-1911 or at Sales@rollac.com.

# SHUTTER SYSTEM FRAME

## SHUTTER SYSTEM FRAME



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|  |            |                        |               |   |
|--|------------|------------------------|---------------|---|
| <b>ROLLAC</b>  |            | NAME                   | DATE          | PROJECT:  |
| DRAWN  | TRAVIS E.  | 2017/03/15             |               |   |
| CHECKED  | STEFAN P.  | 2017/03/15             |               | DESCRIPTION:  |
| APPR.  |            | YYYY/MM/DD             |               | SYSTEM SPECIFICATION SHEETS FOR RLL55X_HD SHUTTER SYSTEM. |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  |            |                        |               |   |
| ANGLES   | .X<br>± .5 | .XX<br>± .1            | .XXX<br>± .03 | .005  |
| Copyright © 2017 Rollac V2.28.2017   |            | THIRD ANGLE PROJECTION |               | SIZE DWG. NO.   |
| ROLLAC ROLLING SHUTTERS<br>5331 W. ORANGE ST.<br>PEARLAND, TX 77581<br>TEL: 281-485-1911<br>WWW.ROLLAC.COM |            |                        |               | <b>A RLL55X HD</b>  |
|  |            |                        |               | REV<br><b>A</b>   |
|  |            | SCALE: NONE            |               | WEIGHT: XX.XLBS   |
|  |            |                        |               | 11 OF 15  |



# Experience Technology Higher Standards

Since 1982, Rollac has operated with a vision of quality, service, and modern technology to produce the best possible product for our customers. Each product is custom manufactured for every single job to ensure the best fit and finish. Regardless if you are looking to enhance security, add comfort to a space, or seek protection from the elements, Rollac has the solution for your home or work environment.

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