

# EXTERNAL BOOK RETURNS CHUTE

## INSTALLATION INSTRUCTIONS 2021



### REQUIRED TOOLS & HARDWARE



#### DRILL

With masonry attachments



#### SEALANT

Exterior grade weather proof



#### SCREW DRIVER

Phillips head



#### M8 WRENCH



#### TAPE MEASURE

## ! PRE-REQUIRED SITE WORK !

In order to install a **Raeco External Book Returns Chute**, the site must first be inspected by a certified builder or other approved contractor, as a hole is required to be cut through the external and internal walls of the building. This element of the install falls outside Raeco's offering and is required to be sourced by the customer. The following steps are the recommended specifications for the chute hole and its cladding, and are intended as a guide for the contractor.

### 1 MARK THE HOLE LOCATION



Mark a **496MMW** x **441MMH** hole in the external wall, **798MM** up from the outside ground level.

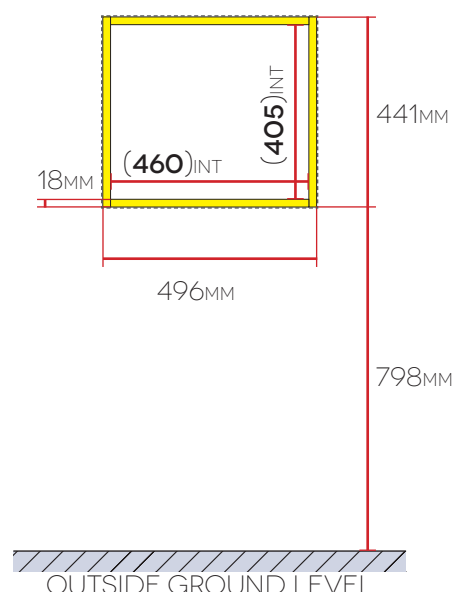
Following these dimensions will allow room for **18MM timber cladding** (marked in yellow). It will also achieve a **DDA compliant** returns slot height of **1100MMH**. Dimensions will need to be adjusted to suit any parameters outside of this recommendation.



Ensure the distance from the **inside floor** level to the bottom of the cut is not smaller than **715MMH** or a large returns trolley (**44002**) will not fit under the depository slide.

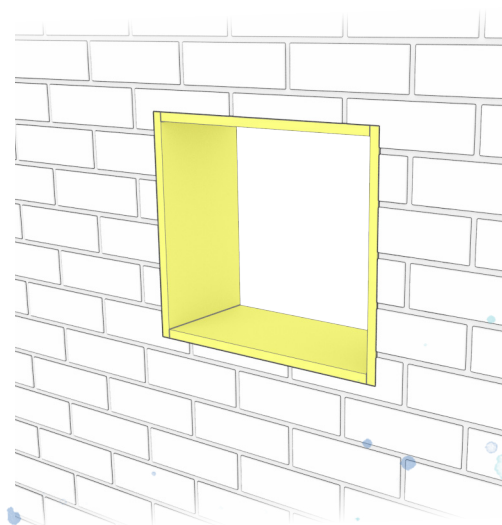


Maximum compatible wall thickness is: **330mm** thick



### 2 CUT & FRAME THE HOLE

With the hole cut through both the external and internal walls, it's time to frame the inside of the hole. The timber frame provides the mounting surface for the book returns chute so must be appropriately fixed by the contractor to the masonry or structural body of the building. Raeco recommends any gaps be sealed with weather proof sealant to prevent draft or elemental damage to the wall.

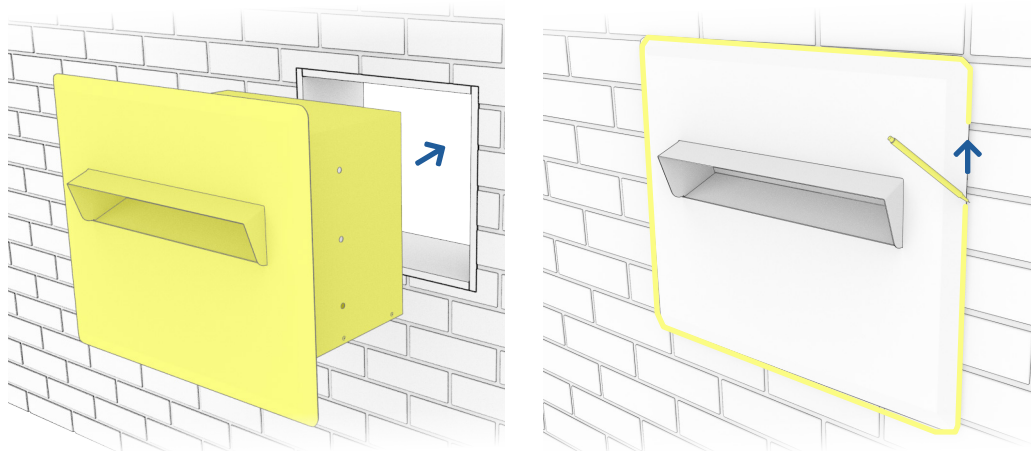




## CHUTE INSTALLATION

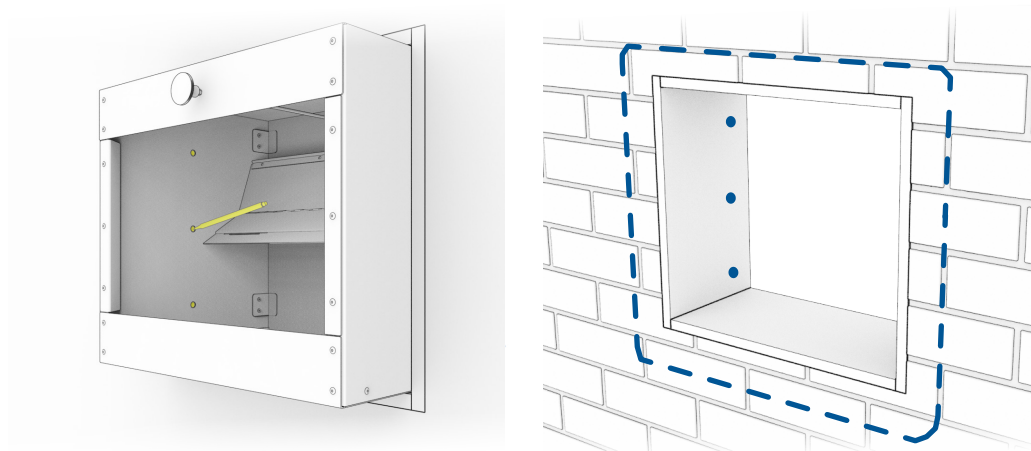
### 1 DRY FIT MARK-UP

Insert the returns chute into the framed timber cavity from the external side of the wall until the faceplate is flush against the wall. Using a pencil or marker, trace the outside of the faceplate, this will give a guide to caulk around to seal the faceplate and wall.



### 2 MARK INTERNAL MOUNTING HOLES

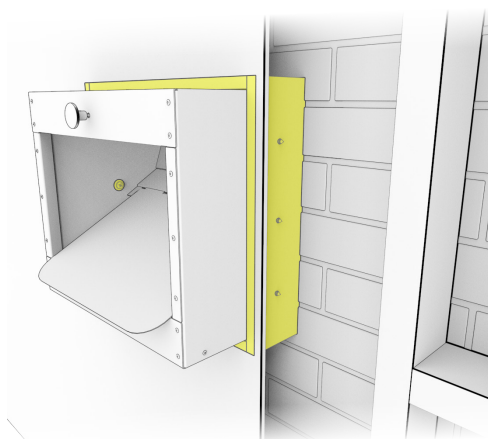
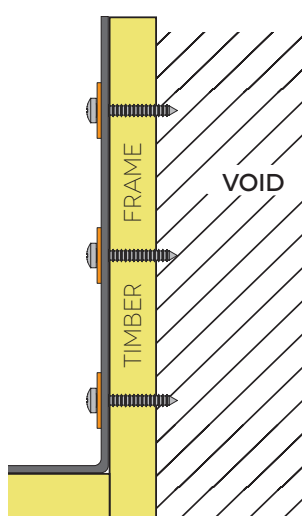
With the returns chute still in position and the face plate flush against the wall, go to the internal side and mark the (6) mounting holes (3 on either side Left & Right) on the timber frame. **NOTE:** If the book slide is attached, lift up and remove this piece for easy access. Remove the returns chute exposing all previously marked areas.



### 3 DETERMINE MOUNTING CONDITIONS

Mounting hardware for your chute has been included for two possible wall scenarios that are dependant on what type of wall the chute is being fitted to. It is important to check with your contractor or architect prior to installation in order to determine which of the below options correlates to your wall type.

#### BRICK VENEER / STUDDED WALLS

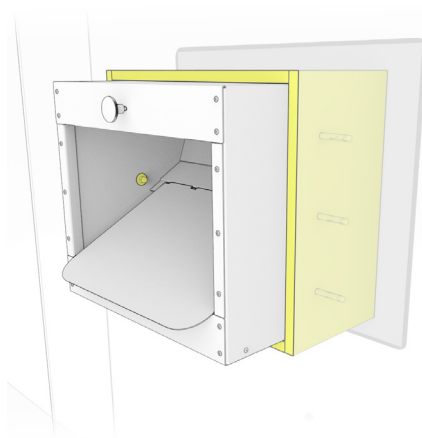
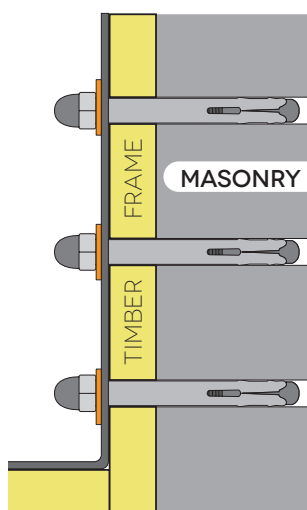


Chutes mounted in wall types such as **Brick Veneer** or similar styles that have hollow sections between the outer and inner wall, will use the **14G x 32MM** timber screws and mount directly to the timber frame installed by the contractor when cutting and cladding the book chute hole.

Drill a pilot hole for the screws in the previously marked locations.

**PILOT HOLE: 3MM**

#### SOLID MASONRY



Chutes mounted in wall types such as **Solid Masonry** will use the **10MM Dynabolt Masonry Anchors** mount through the timber frame installed by the contractor when cutting and cladding the book chute hole, and into the masonry wall behind.

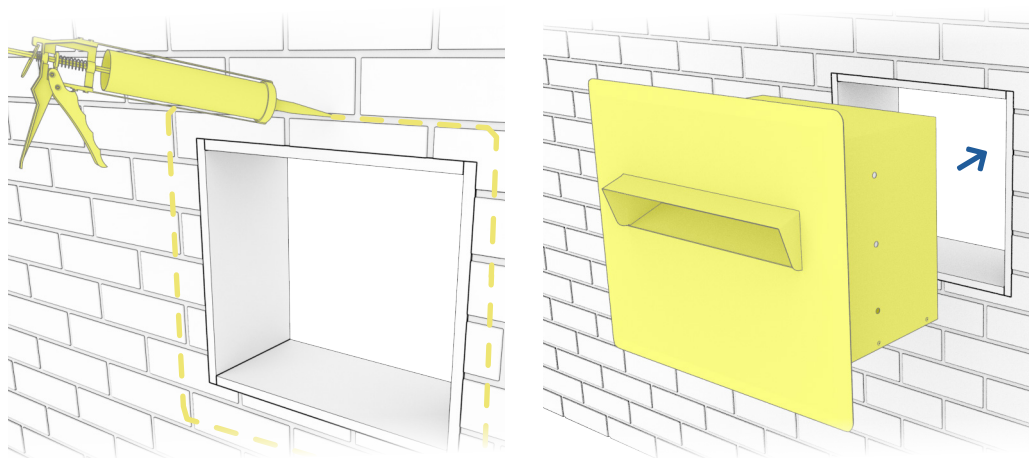
Drill a pilot hole for the dynabolt wall anchors in the previously marked locations.

**PILOT HOLE: 10MM**



## 4 CAULK & SEAL FACE PLATE

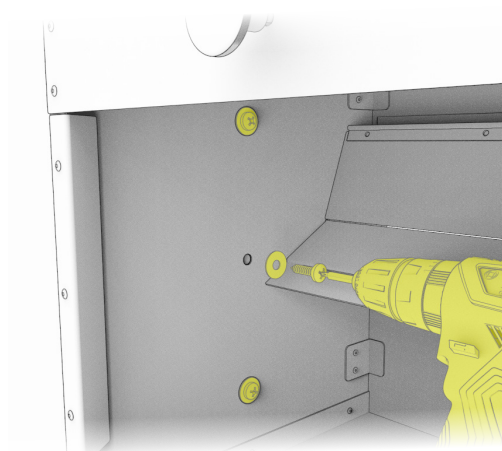
Using a caulking gun and some exterior grade sealant, trace the marked faceplate line on the exterior wall. Next slide the chute back into place, ensuring contact between the sealant, faceplate and wall. Clean-up any overflow or caulking imperfections.



## 5 SECURE CHUTE IN PLACE

Fasten the chute in place from the internal side, using the appropriate hardware and pilot holes drilled in step 3.

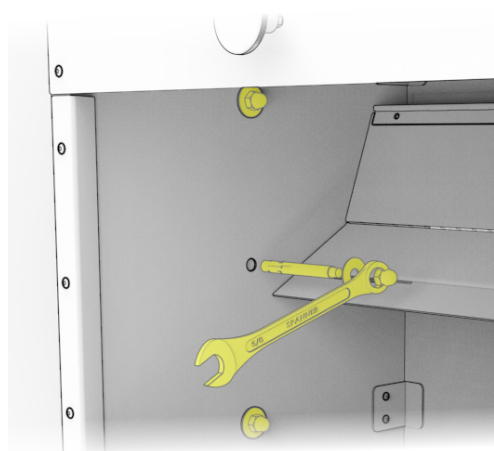
### BRICK VENEER / STUDDED WALLS



Mounting directly to timber frame:

(6) 14G x 1,1/4" : **98001**  
 (6) 23mm OD Flat Washer : **85429**

### SOLID MASONRY



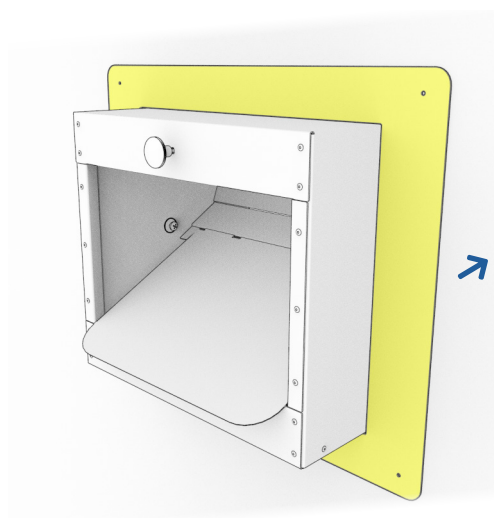
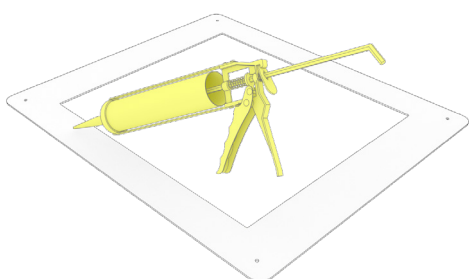
Mounting through timber frame into masonry:

(6) DYNABOLT D10075 : **98002**  
 (6) 23mm OD Flat Washer : **85429**  
 (6) M8 Dome Nut Chrome : **98003**

## 6 MOUNT REAR FACE PLATE

With the chute now securely fixed in place, its time to caulk the back side of the rear faceplate and slide into place, around the chute body from the internal wall side.

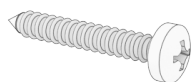
*Optional - Fasten the rear faceplate to the wall with the remaining (4) 14G x 1,1/4" : 98001 through the holes provided.*



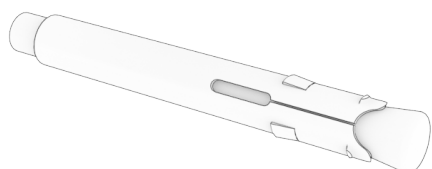
## HARDWARE GUIDE (44030)



(85429) : Washer Flat 23mm DIA



(98001) : 14G x 1,1/4" Screw



(98002) : DYNABOLT D10075



(98003) : Dome Nut Chrome M8