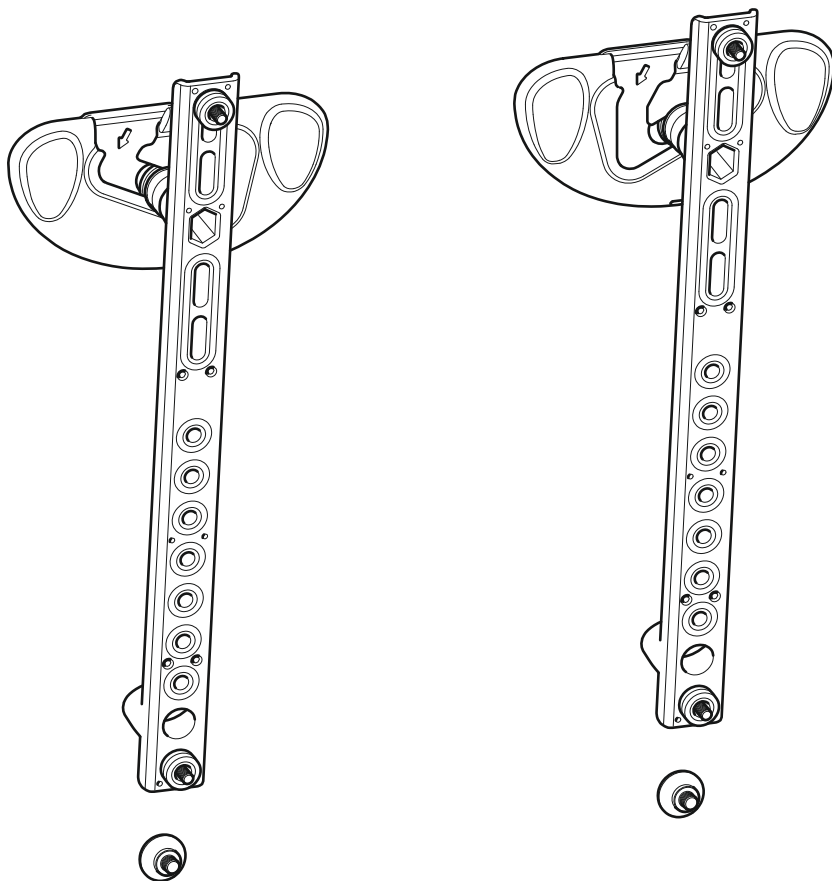


# JML8451

464236 rev03



**Read through ALL instructions before commencing installation.**  
**If you have any questions about this product or issues with installation**  
**contact the customer services helpline before returning this product to**  
**the store. See [jl.avfgroup.com/p/jml8451](http://jl.avfgroup.com/p/jml8451) for more information.**

**CUSTOMER SERVICES HELP LINE NUMBER:**

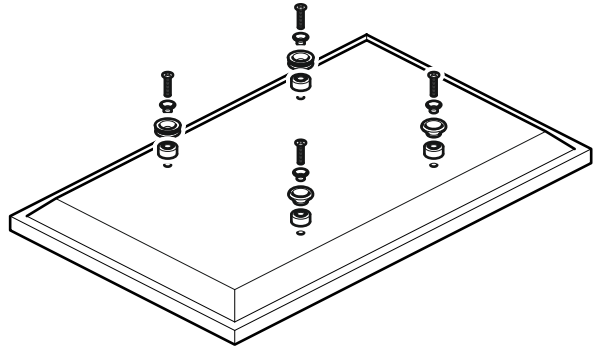
**0333 320 0463**



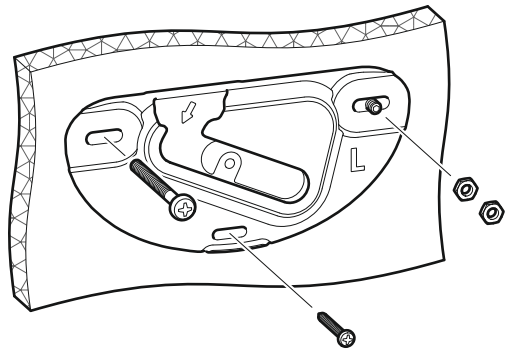
**AVF Group Ltd.** Hortonwood 30, Telford, Shropshire, TF1 7YE, England

## Assembly Overview

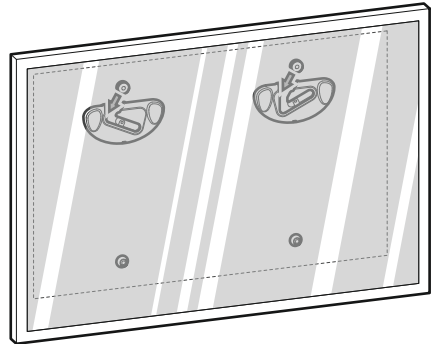
### Fit Screen Hangers to TV



### Fitting the Wall Bracket



### Hanging the TV



Retain all packaging in case the bracket needs to be returned.

Contents may vary from photography/ Illustrations.

You will not need all these parts, so expect there to be some left over depending upon the specification of your TV.

This product is intended for indoor use only. Use of this product outdoors could lead to failure and personal injury.

It is the responsibility of the installer to ensure that the mounting wall is of a suitable standard and void of any services (eg gas, electricity, water etc).

AVF accept no responsibility for any damage or loss caused by installing this product in a sub standard wall.

## Index

- 1 Measure the TV fixing holes Width and Height

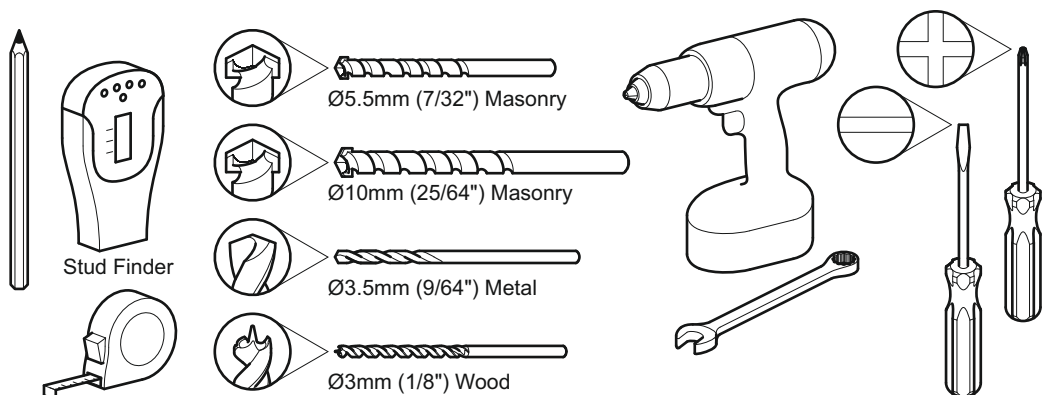
### Flat to wall only

- 2 Fit Screen Hangers to TV
- 3 Assemble Positioning Template
- 4 Determine Bracket Hole Centres
- 5 Marking Wall For Drill Points
- 6 Fitting the Wall Bracket
- 7 Fitting the Wall Bracket Covers
- 8 Hanging the TV

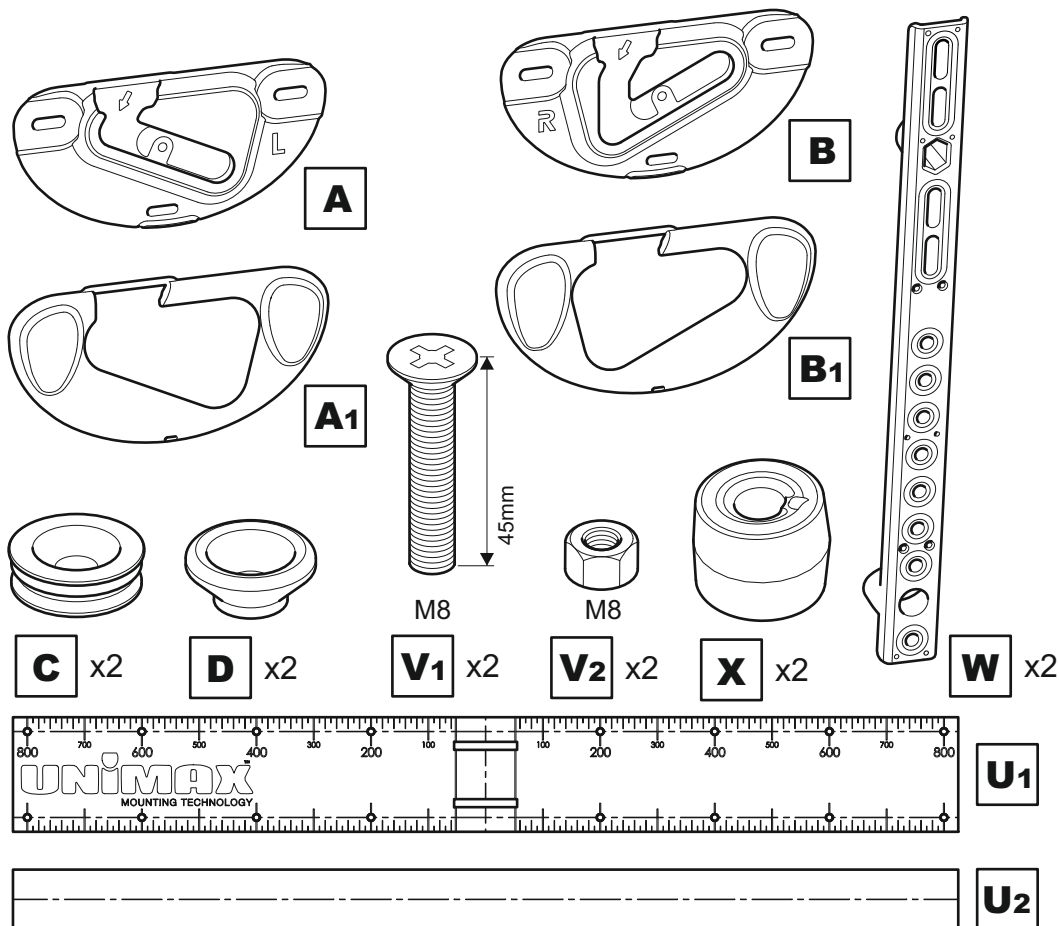
### Tilt Position only

- 9 Choose Tilt
- 10 Assemble Positioning Template
- 11 Determine Bracket Hole Centres
- 12 Fit Tilt Brackets to TV
- 13 Marking Wall For Drill Points
- 14 Fitting the Wall Bracket
- 15 Fitting the Wall Bracket Covers
- 16 Hanging the TV

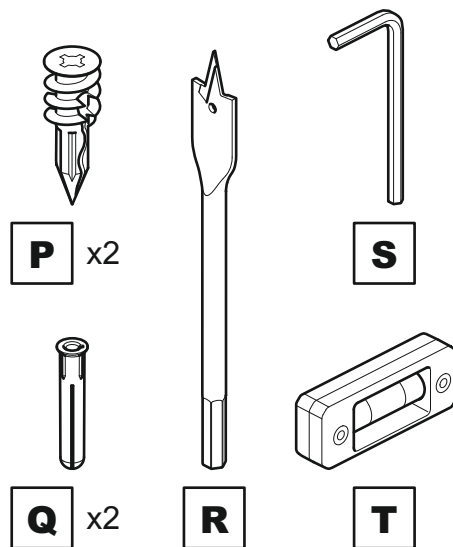
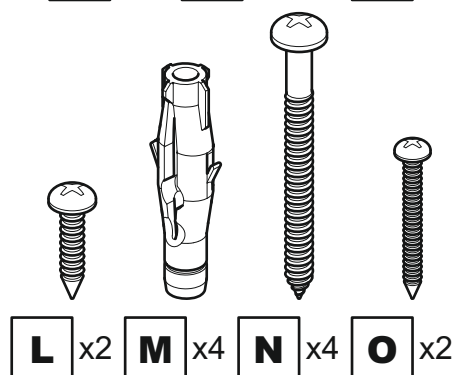
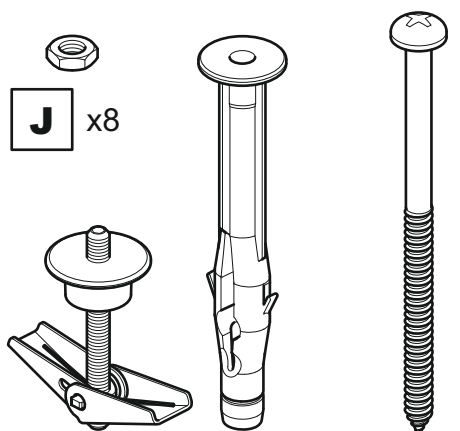
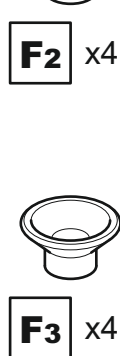
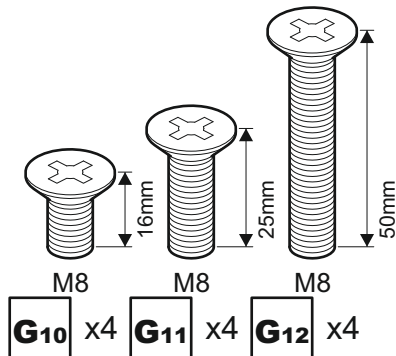
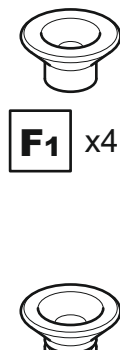
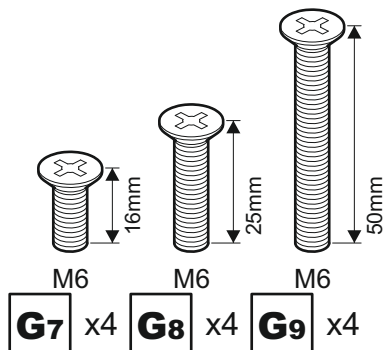
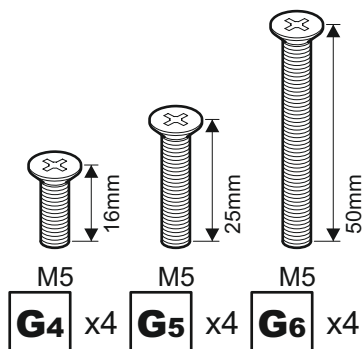
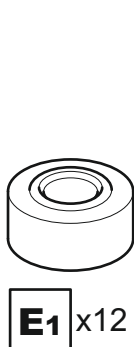
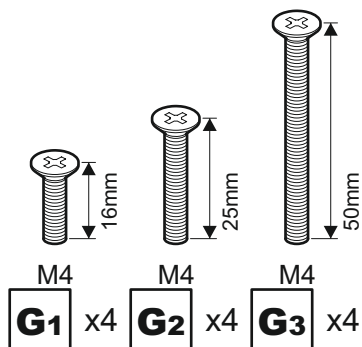
## Tools Recommended



## Boxed Parts



# TV Screws, Reducers and Spacers



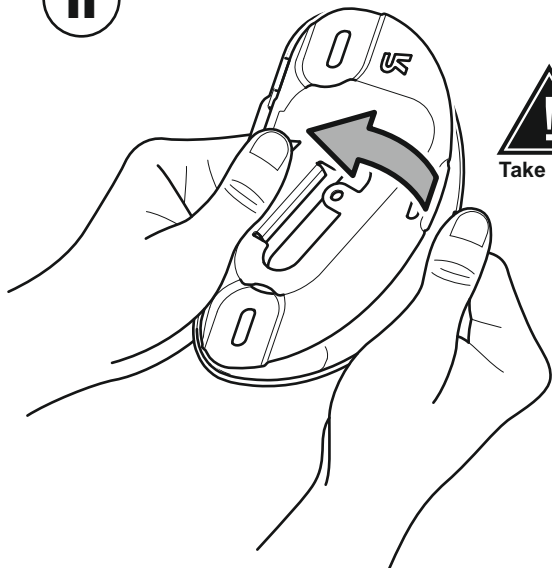
## Remove the Wall Bracket Covers and keep for step 7 or 15

Wall bracket covers **A1** & **B1** are removed in the same way.

i



ii

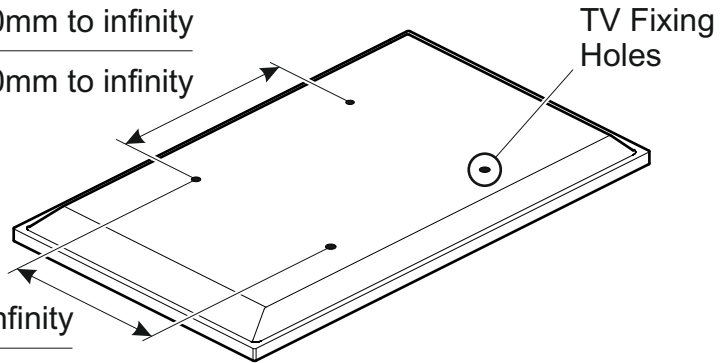


Take Care

# 1 Measure the TV fixing holes Width and Height

**Flat** (X) 200mm to infinity

**Tilt** (X) 200mm to infinity



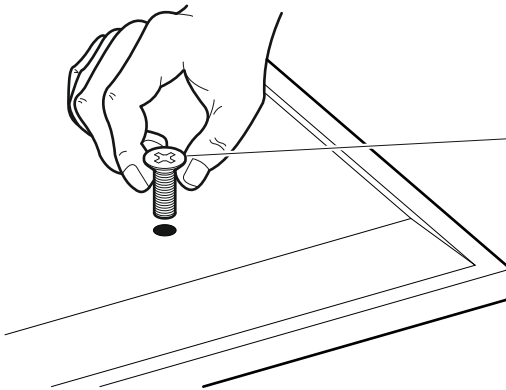
**Flat** (Y) 100mm to infinity

**Tilt** (Y) 100mm to 400mm



If width (X) is less than 200mm or height (Y) is less than 100mm  
STOP installation now and contact the customer help line

You are provided with 4 diameters of TV fixing screws, **M4**, **M5**, **M6** and **M8**. Determine the screw diameter that fits and remember for step 2 or 12.



**M4 = G1-G3**

**M5 = G4-G6**

**M6 = G7-G9**

**M8 = G10-G12**



After completing step 1 you will have TV fixing screws left over,  
please keep for future reference

## Flat to Wall or Tilt Position

Before you start please choose if you would like your TV to be either Flat to Wall or in a Tilt Position.

**Flat to Wall**  
Follow steps 2 - 8

**Tilt Position**  
Follow steps 9 - 16

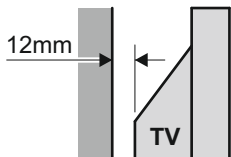
## 2 Fit Screen Hangers to TV

**Flat to Wall only**

Once you have established which screw diameter you need for your TV you will need to choose which wall spacing you require. Check the back of your TV and use the **OPTION** that fits your TV. Please see page opposite for more details.

### OPTION 1

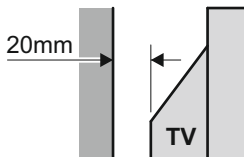
12mm Wall Space



Suitable for TVs with a flat back and no obstructions

### OPTION 2

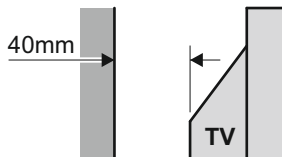
20mm Wall Space



Suitable for TVs with small to medium obstructions eg power supply, mouldings etc

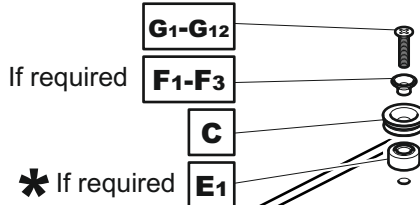
### OPTION 3

40mm Wall Space

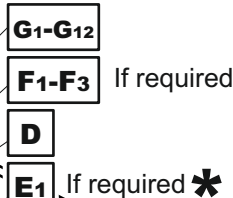


Suitable for TVs with large obstructions eg power supply, mouldings etc

### Top Fixings



### Bottom Fixings

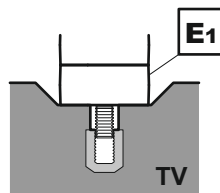


In certain circumstances it may be necessary to use red spacer **E2** as either a replacement or addition to spacer **E1**.

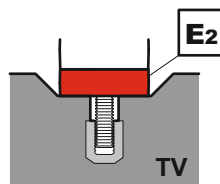
When is it necessary to use red spacers **E2**?

It is recommended that when fitting Hangers **C** and Stand-offs **D** to your TV you have at least 5-10mm of screw engagement. In certain circumstances you may need to use red spacers **E2** as either a replacement, or together with spacers **E1** to achieve this. Whenever you use red spacers **E2** you must use all 4 provided.

**Problem**  
Not enough screw engagement














**Solution**  
Red spacer **E2** has replaced spacer **E1**
















**OPTION 1**  
12mm Wall Space

**Top Fixings**
















M4	M5	M6	M8
 <b>G1</b>	 <b>G4</b>	 <b>G7</b>	 <b>G10</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	
 <b>C</b>	 <b>C</b>	 <b>C</b>	 <b>C</b>

**Bottom Fixings**
















M4	M5	M6	M8
 <b>G1</b>	 <b>G4</b>	 <b>G7</b>	 <b>G10</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	
 <b>D</b>	 <b>D</b>	 <b>D</b>	 <b>D</b>

**OPTION 2**  
20mm Wall Space

**Top Fixings**
























M4	M5	M6	M8
 <b>G2</b>	 <b>G5</b>	 <b>G8</b>	 <b>G11</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	
 <b>C</b>	 <b>C</b>	 <b>C</b>	 <b>C</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>

**Bottom Fixings**
























M4	M5	M6	M8
 <b>G2</b>	 <b>G5</b>	 <b>G8</b>	 <b>G11</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	
 <b>D</b>	 <b>D</b>	 <b>D</b>	 <b>D</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>

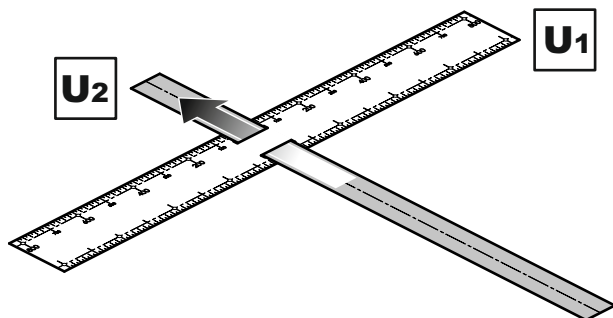
**OPTION 3**  
40mm Wall Space

**Top Fixings**

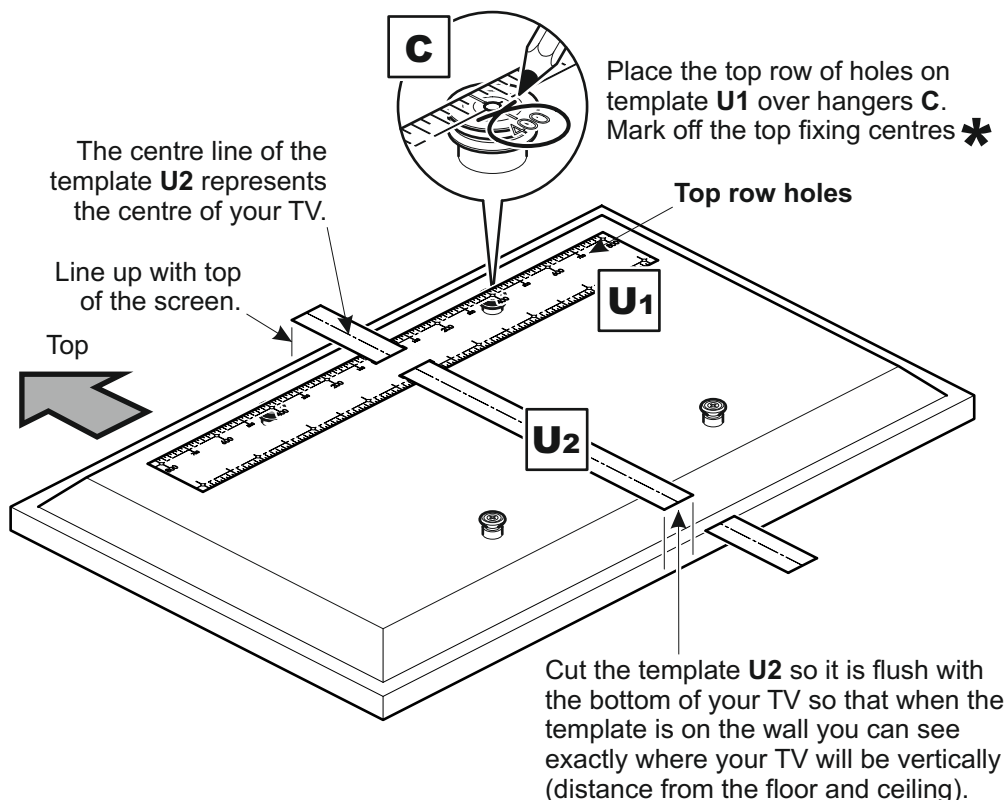
M4	M5	M6	M8
 <b>G3</b>	 <b>G6</b>	 <b>G9</b>	 <b>G12</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	
 <b>C</b>	 <b>C</b>	 <b>C</b>	 <b>C</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>

**Bottom Fixings**

M4	M5	M6	M8
 <b>G3</b>	 <b>G6</b>	 <b>G9</b>	 <b>G12</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	
 <b>D</b>	 <b>D</b>	 <b>D</b>	 <b>D</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>

**3****Assemble Positioning Template****Flat to Wall only****4****Determine Bracket Hole Centres****Flat to Wall only**

Lay the template on the back of the TV and follow the instructions below.

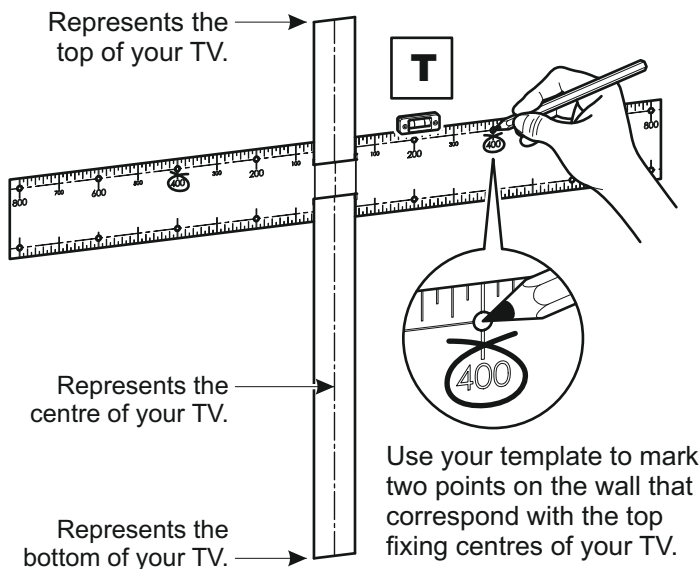


\* If hangers **C** do not line up with any holes on the template then ensure template is firmly in position and punch 2 holes to match your top fixing centres with a pencil or sharp object.

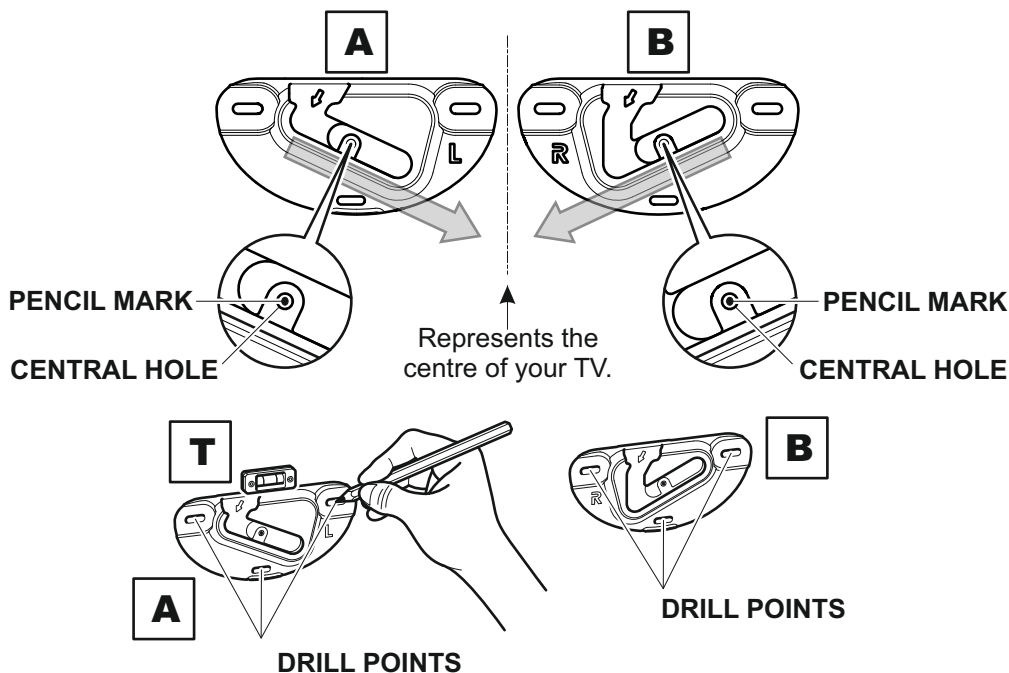
## 5 Marking Wall For Drill Points

Flat to Wall only

Before marking the wall, determine the wall type that you have (i.e. Solid Wall/ Dot & Dab/ Plasterboard/ Wood Stud/Metal Stud). Ensure the drilling area is free from mains services (Gas/Electric/Water).



Next, use the Wall Brackets **A** and **B** as a template and position them over the appropriate **PENCIL MARKS** you have made, so that the mark is in the middle of the **CENTRAL HOLE** of the Wall Bracket. Ensure the bracket is level and mark the three **DRILL POINTS** with a pencil. Repeat for other bracket. Drill six 3mm pilot holes and select appropriate fixings (see section 6)

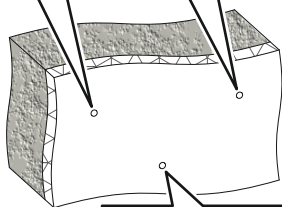
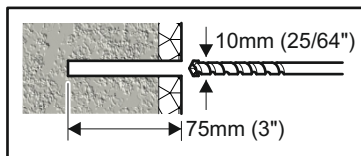


# 6 Fitting the Wall Bracket

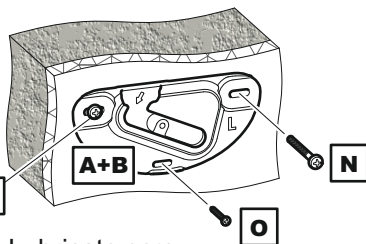
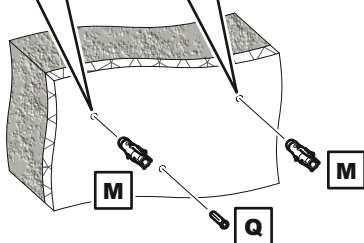
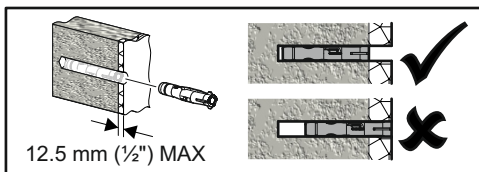
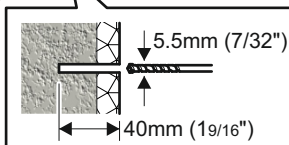
**Flat to Wall only**

Use the correct fixings for your wall type. Mixing fixing screws may be required for installations that span different wall types. **DO NOT OVER TIGHTEN SCREWS.**

## Solid Wall

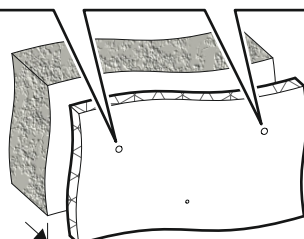
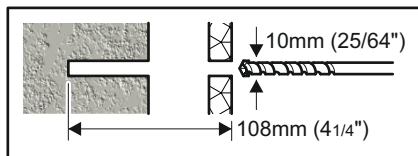


Remove dust from holes



Lubricate screw thread with soap

## Dot & Dab

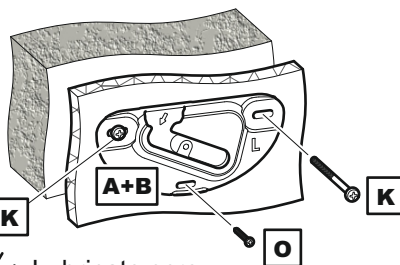
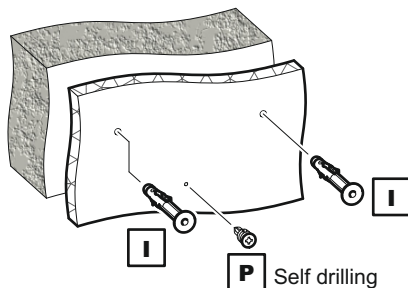


\* 40mm (1 9/16")  
MAX gap

\* If gap is above 40mm (1 9/16") use plasterboard fixing method

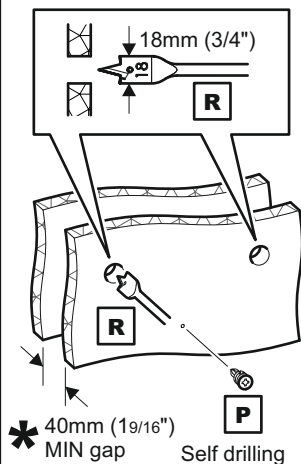


Remove dust from holes

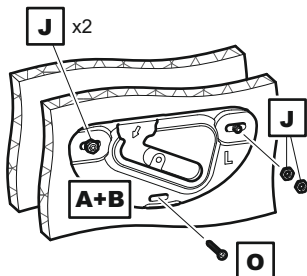
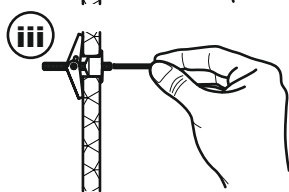
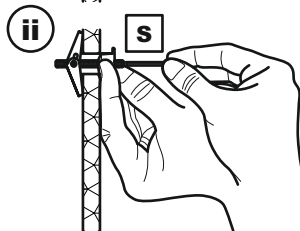
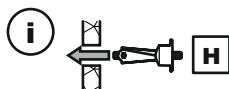


Lubricate screw thread with soap

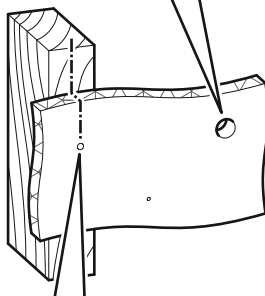
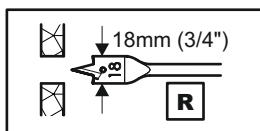
## Plasterboard



Remove dust from holes

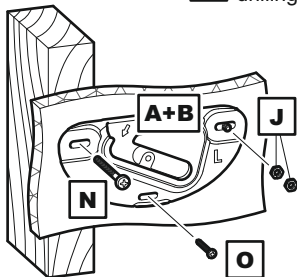
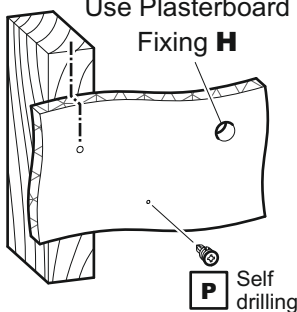


## Wood Stud



Ensure hole is in the middle of the wood stud

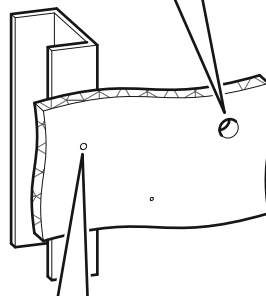
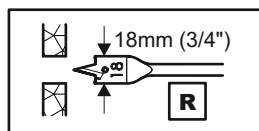
Use Plasterboard Fixing H



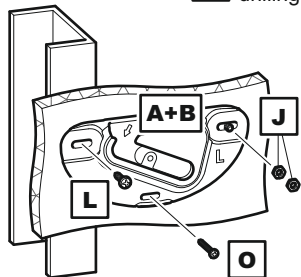
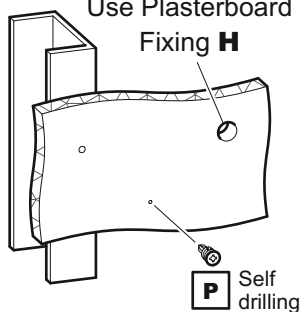
Lubricate screw thread with soap

Only one fixing will be in the wood stud. The other fixings will be in plasterboard (see above)

## Metal Stud



Use Plasterboard Fixing H

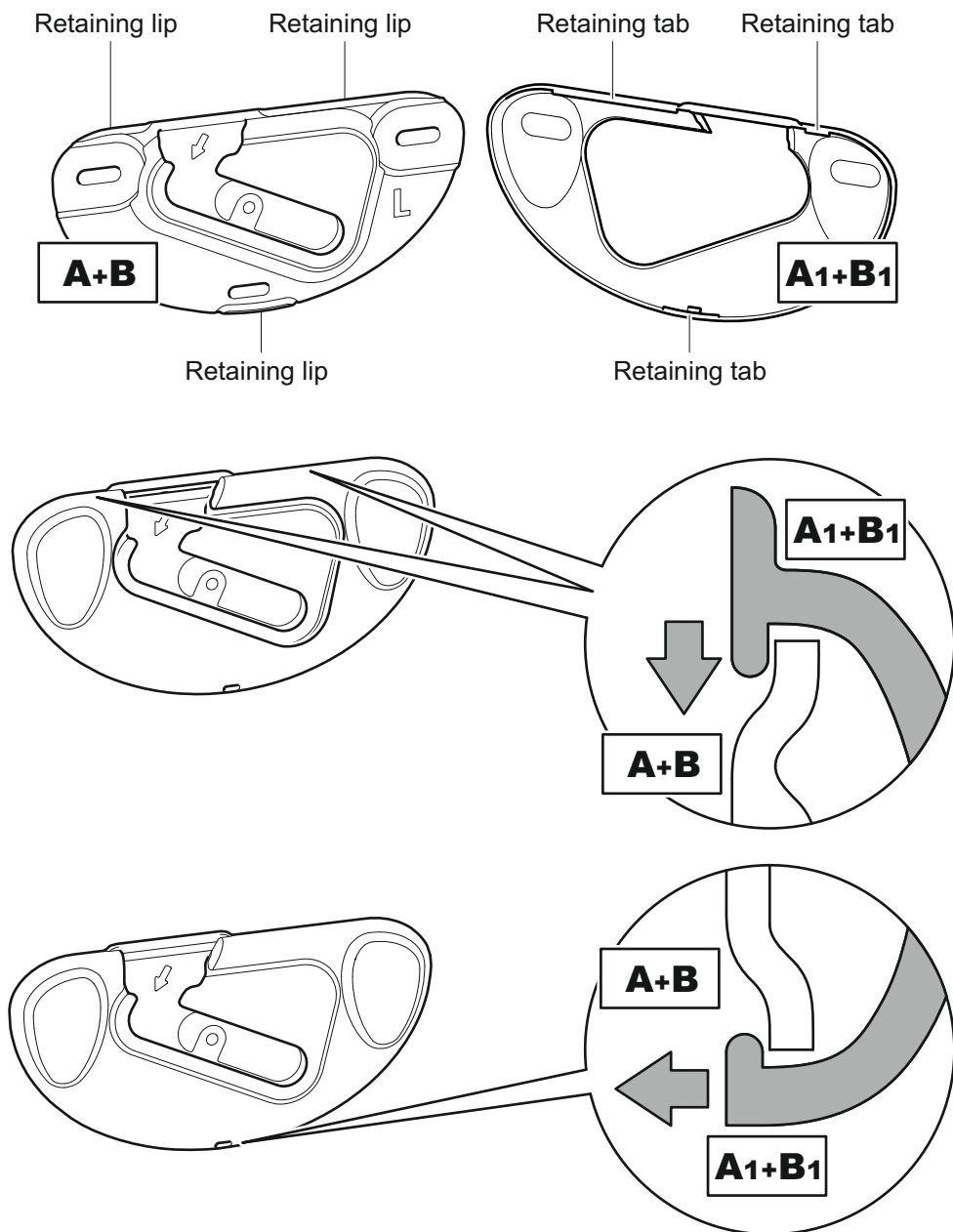


Only one fixing will be in the metal stud. The other fixings will be in plasterboard (see above)

## 7 Fitting the Wall Bracket Covers

Flat to Wall only

On wall bracket covers **A1** & **B1** are 3 retaining tabs. These locate onto 3 retaining lips on wall brackets **A** & **B** and lock the wall bracket covers in position.



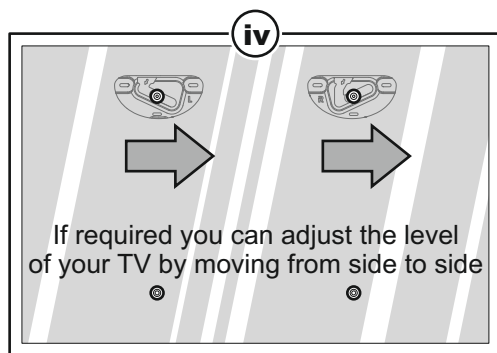
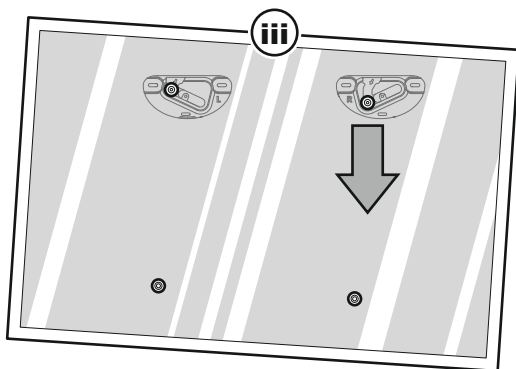
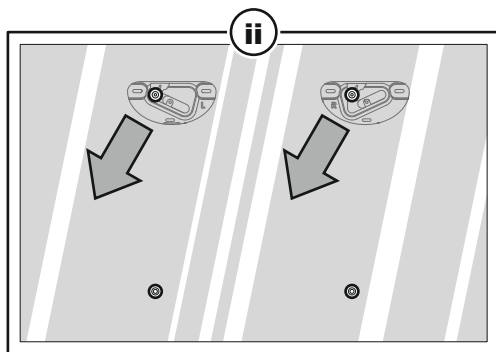
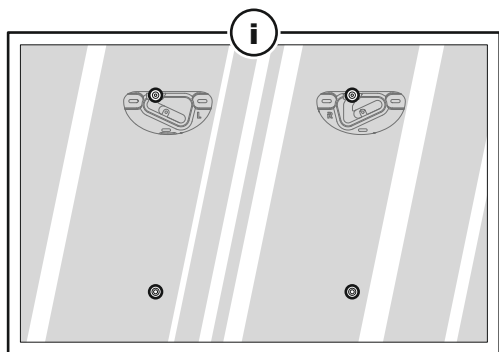
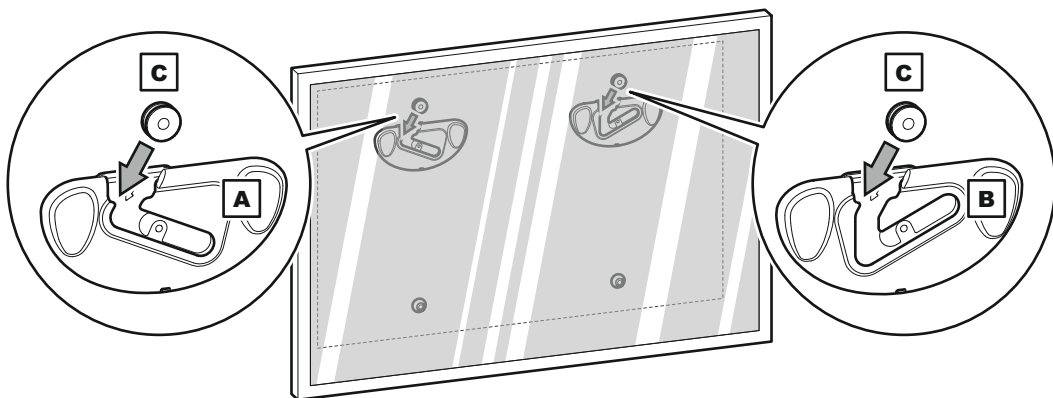
## 8 Hanging the TV

**Flat to Wall only**

### Hanging the TV is a two person job.

Present hangers **C** (on the back of the TV) to the opening on brackets **A** & **B**. Slide down and across into place. Ensure both hangers are fully engaged. If cables from the TV prevent the TV resting against the wall then an alternative hanger configuration will be required (see section 2).

TV must be parallel to wall. Use spacers / stand-offs as shown in section 2.



### Removing the TV

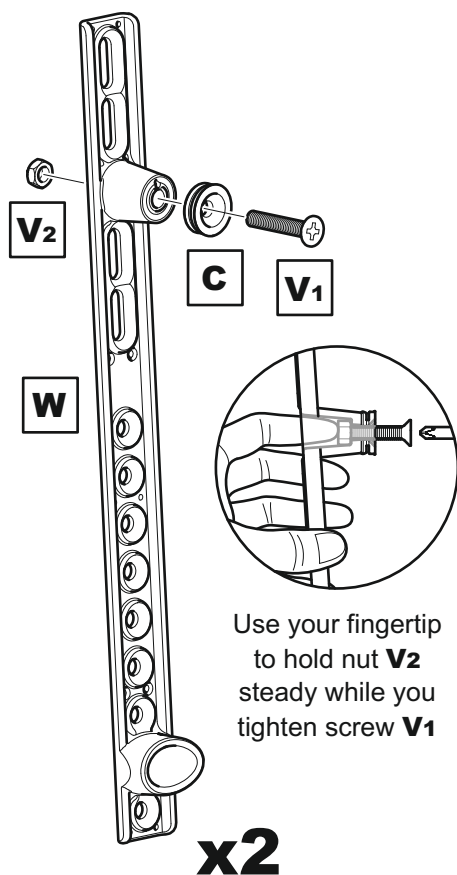
This is a two person job. To remove the TV reverse the movements as shown above.

# 9 Choose Tilt

## Tilt Position only

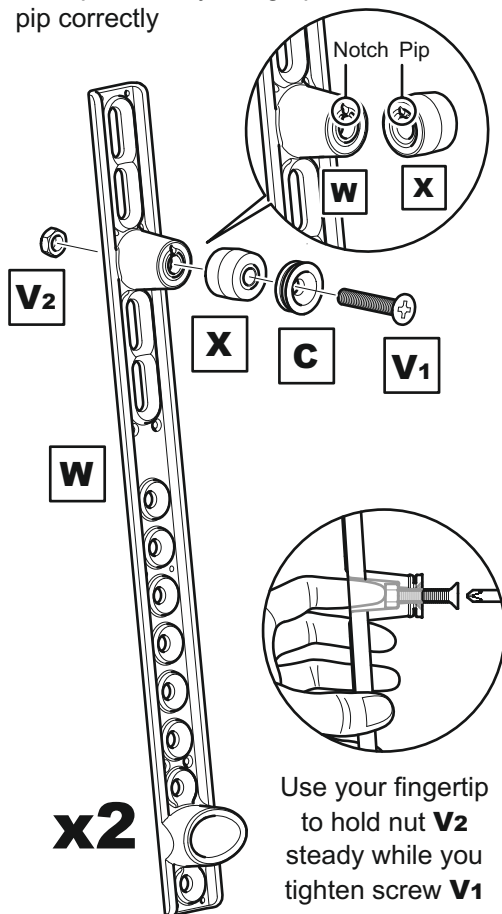
You can choose between 2 different tilt positions, either 4° or 8°.

### 4° tilt

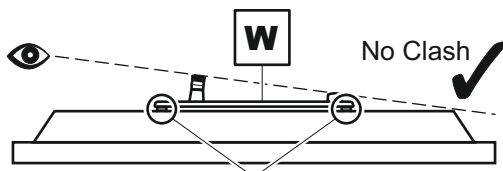
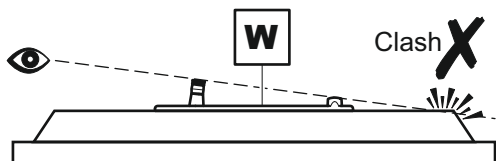


### 8° tilt

Ensure a flush fit between tilt bracket **W** and spacer **X** by lining up the notch and pip correctly



Check to see if your TV will clash with the wall, if clash occurs it will be necessary to add spacers to prevent this, the size of your TV will determine if you need to use 1 or 3 spacers. If clash occurs even after using 3 spacers you will have to change the tilt. Please see below for an example.

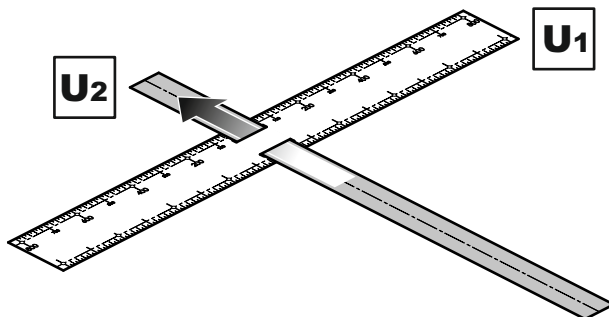


Spacers **E1** are used between tilt bracket **W** and TV to prevent clash with wall



## 10 Assemble Positioning Template

Tilt Position only



## 11 Determine Bracket Hole Centres

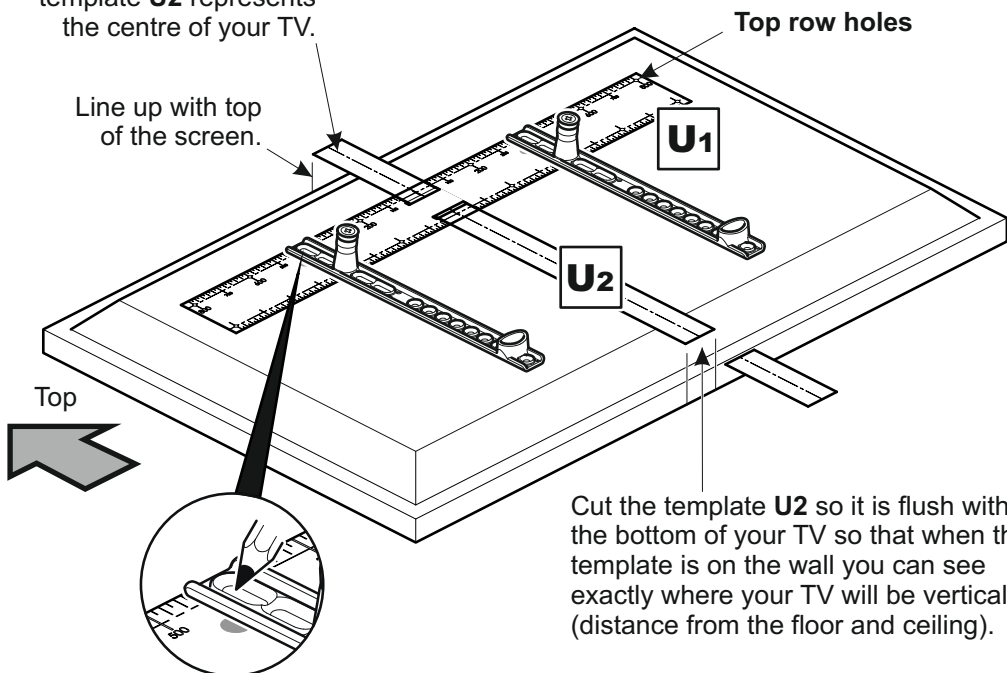
Tilt Position only

Place the tilt brackets on the back of the TV in the position you will fix them in later. Slide the template under the brackets until the top hole on each bracket is over the top row of holes on the template. Mark the template through both top bracket holes.

The centre line of the template **U2** represents the centre of your TV.

Line up with top of the screen.

Top row holes



Cut the template **U2** so it is flush with the bottom of your TV so that when the template is on the wall you can see exactly where your TV will be vertically (distance from the floor and ceiling).

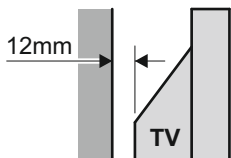
# 12 Fit Tilt Brackets to TV

**Tilt Position only**

Once you have established which screw diameter you need for your TV you will need to choose which wall spacing you require. Check the back of your TV and use the **OPTION** that fits your TV. Please see page opposite for more details.

## OPTION 1

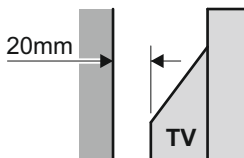
12mm Wall Space



Suitable for TVs with a flat back and no obstructions

## OPTION 2

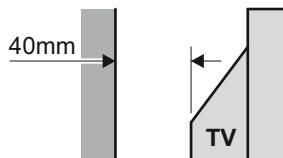
20mm Wall Space



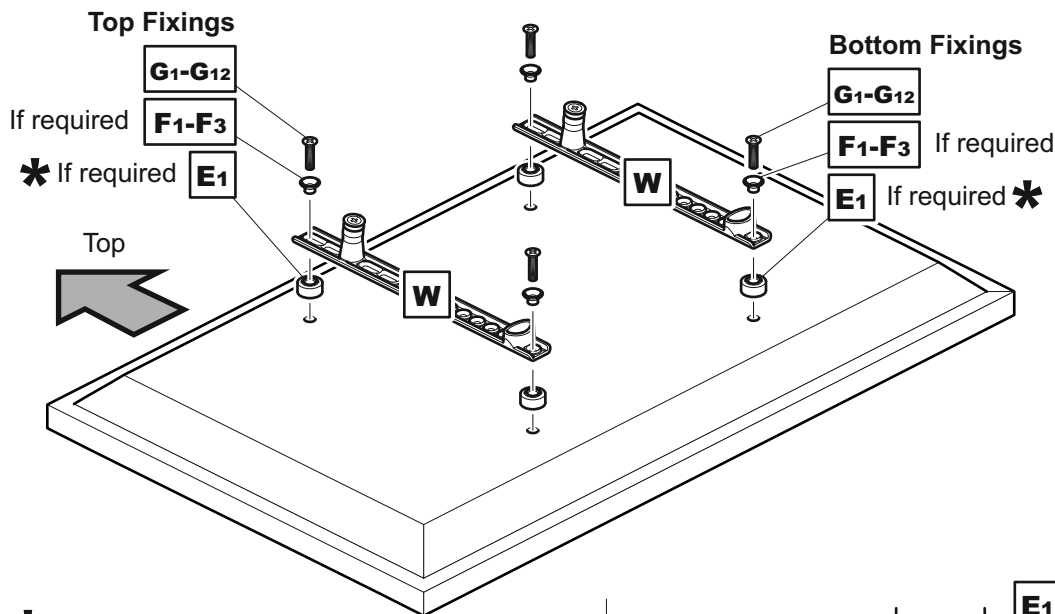
Suitable for TVs with small to medium obstructions eg power supply, mouldings etc

## OPTION 3

40mm Wall Space



Suitable for TVs with large obstructions eg power supply, mouldings etc



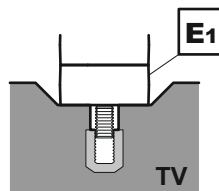
In certain circumstances it may be necessary to use red spacer **E2** as either a replacement or addition to spacer **E1**.

When is it necessary to use red spacers **E2**?

It is recommended that when fitting Tilt Brackets **W** to your TV you have at least 5-10mm of screw engagement. In certain circumstances you may need to use red spacers **E2** as either a replacement, or together with spacers **E1** to achieve this. Whenever you use red spacers **E2** you must use all 4 provided.

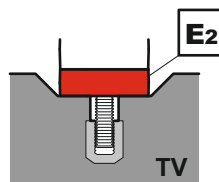
### Problem

Not enough screw engagement















### Solution

Red spacer **E2** has replaced spacer **E1**















**OPTION 1**  
12mm Wall Space

**Top Fixings**

















M4	M5	M6	M8
 <b>G1</b>	 <b>G4</b>	 <b>G7</b>	 <b>G10</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	 <b>F10</b>
 <b>W</b>	 <b>W</b>	 <b>W</b>	 <b>W</b>

**Bottom Fixings**

















M4	M5	M6	M8
 <b>G1</b>	 <b>G4</b>	 <b>G7</b>	 <b>G10</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	 <b>F10</b>
 <b>W</b>	 <b>W</b>	 <b>W</b>	 <b>W</b>

**OPTION 2**  
20mm Wall Space

**Top Fixings**

























M4	M5	M6	M8
 <b>G2</b>	 <b>G5</b>	 <b>G8</b>	 <b>G11</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	 <b>F11</b>
 <b>W</b>	 <b>W</b>	 <b>W</b>	 <b>W</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>

**Bottom Fixings**

























M4	M5	M6	M8
 <b>G2</b>	 <b>G5</b>	 <b>G8</b>	 <b>G11</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	 <b>F11</b>
 <b>W</b>	 <b>W</b>	 <b>W</b>	 <b>W</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>

**OPTION 3**  
40mm Wall Space

**Top Fixings**

M4	M5	M6	M8
 <b>G3</b>	 <b>G6</b>	 <b>G9</b>	 <b>G12</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	 <b>F12</b>
 <b>W</b>	 <b>W</b>	 <b>W</b>	 <b>W</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>

**Bottom Fixings**

M4	M5	M6	M8
 <b>G3</b>	 <b>G6</b>	 <b>G9</b>	 <b>G12</b>
 <b>F1</b>	 <b>F2</b>	 <b>F3</b>	 <b>F12</b>
 <b>W</b>	 <b>W</b>	 <b>W</b>	 <b>W</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>
 <b>E1</b>	 <b>E1</b>	 <b>E1</b>	 <b>E1</b>

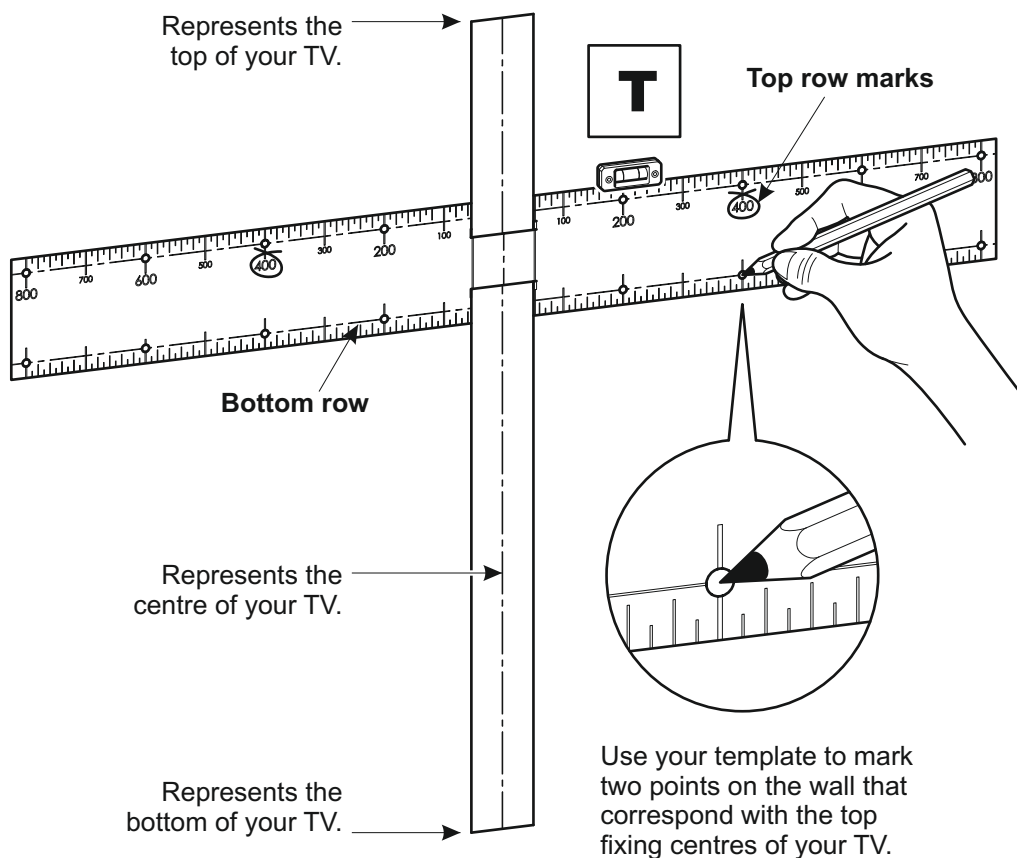
# 13 Marking Wall For Drill Points

**Tilt Position only**



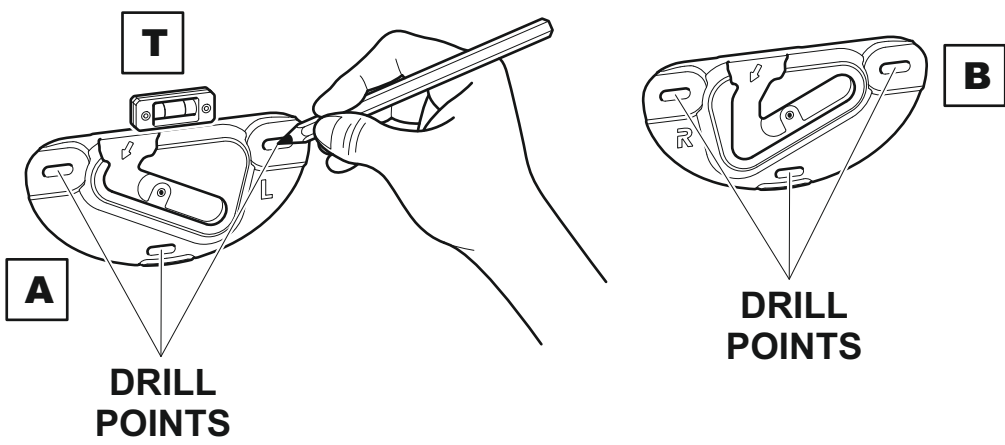
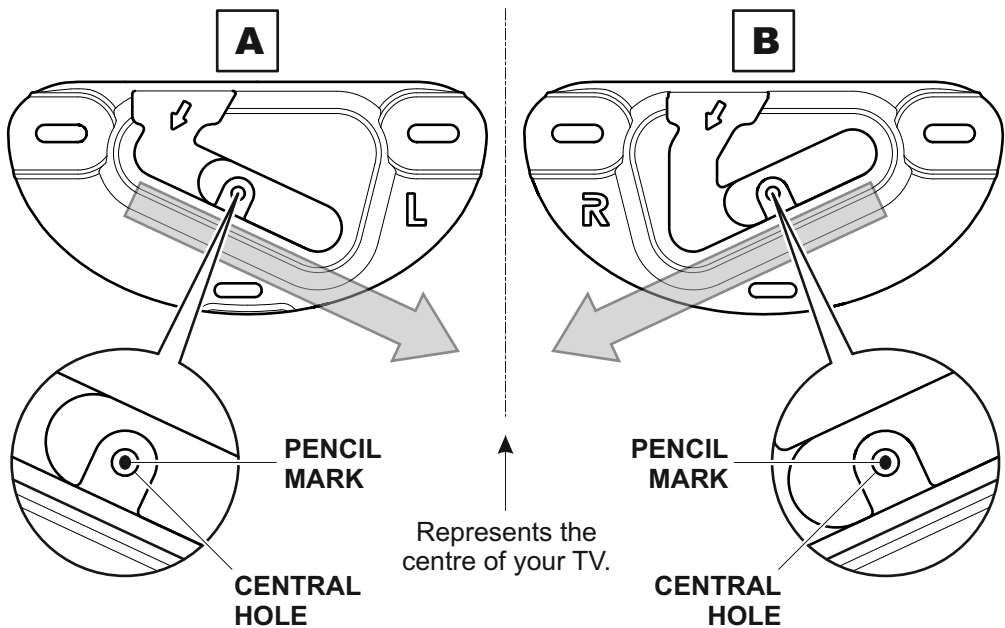
Use the marks on the top row that you made in step 11 and make the same marks on the bottom row. You will use the marks on the bottom row to make 2 pencil marks on the wall.

Before marking the wall, determine the wall type that you have (i.e. Solid Wall/Dot & Dab/ Plasterboard/Wood Stud/Metal Stud). Ensure the drilling area is free from mains services (Gas/Electric/Water).



Next, use the Wall Brackets **A** and **B** as a template and position them over the appropriate **PENCIL MARKS** you have made, so that the mark is in the middle of the **CENTRAL HOLE** of the Wall Bracket. Ensure the bracket is level and mark the three **DRILL POINTS** with a pencil. Repeat for other bracket.

Drill six 3mm pilot holes and select appropriate fixings (see section 14)

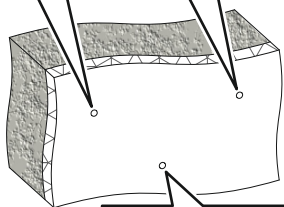
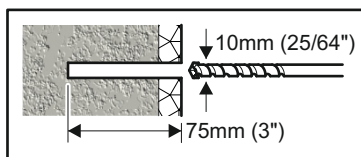


# 14 Fitting the Wall Bracket

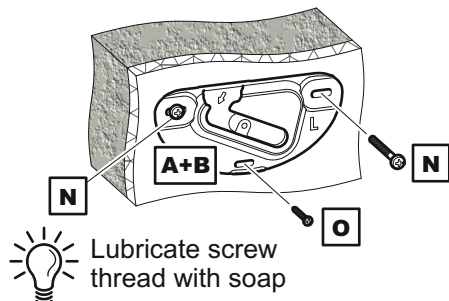
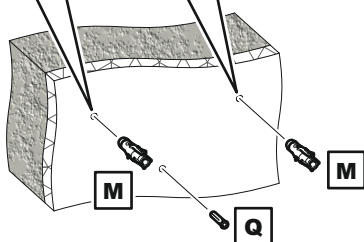
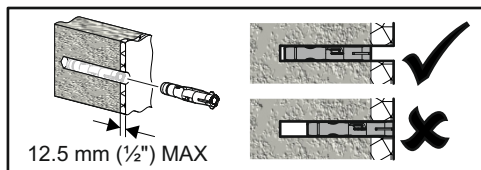
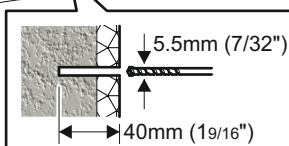
**Tilt Position only**

Use the correct fixings for your wall type. Mixing fixing screws may be required for installations that span different wall types. **DO NOT OVER TIGHTEN SCREWS.**

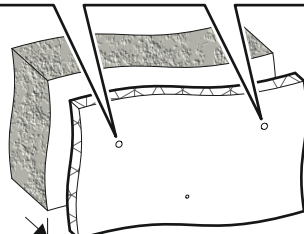
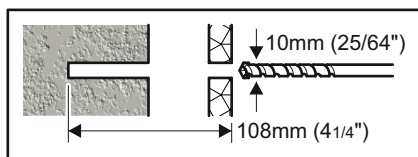
## Solid Wall



Remove dust from holes



## Dot & Dab

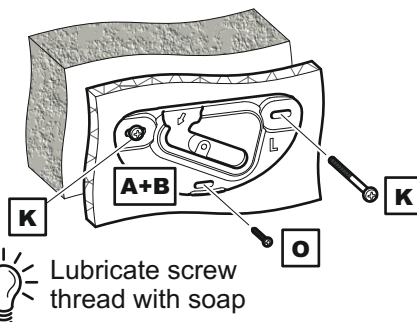
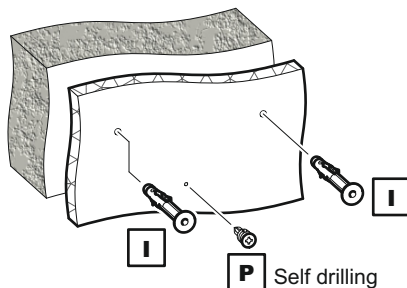


\* 40mm (19/16")  
MAX gap

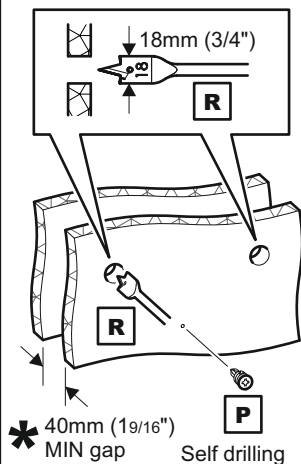
\* If gap is above 40mm (19/16") use plasterboard fixing method



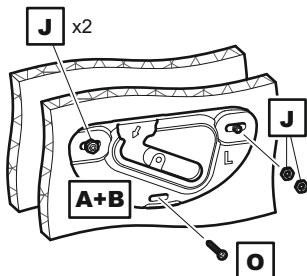
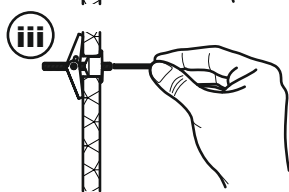
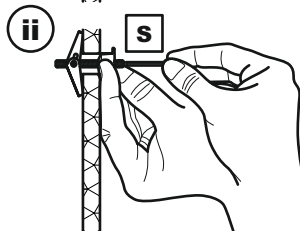
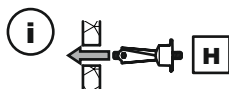
Remove dust from holes



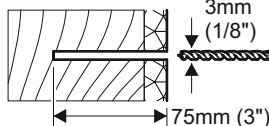
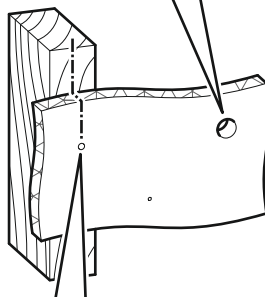
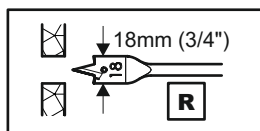
## Plasterboard



Remove dust from holes

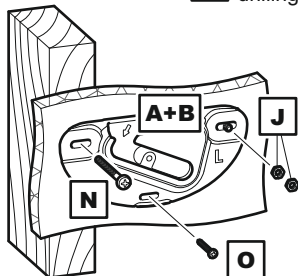
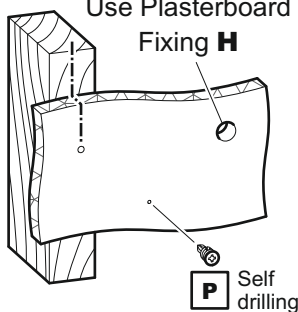


## Wood Stud



Ensure hole is in the middle of the wood stud

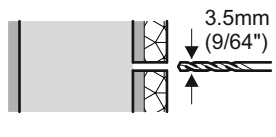
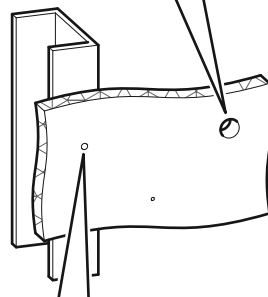
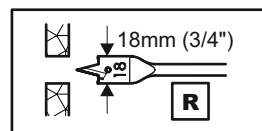
Use Plasterboard Fixing H



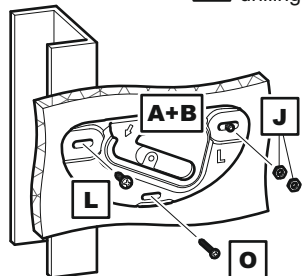
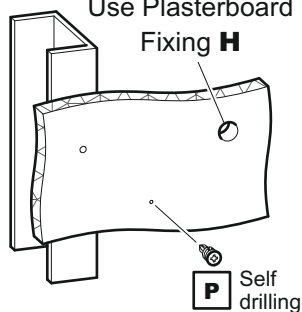
Lubricate screw thread with soap

Only one fixing will be in the wood stud. The other fixings will be in plasterboard (see above)

## Metal Stud



Use Plasterboard Fixing H

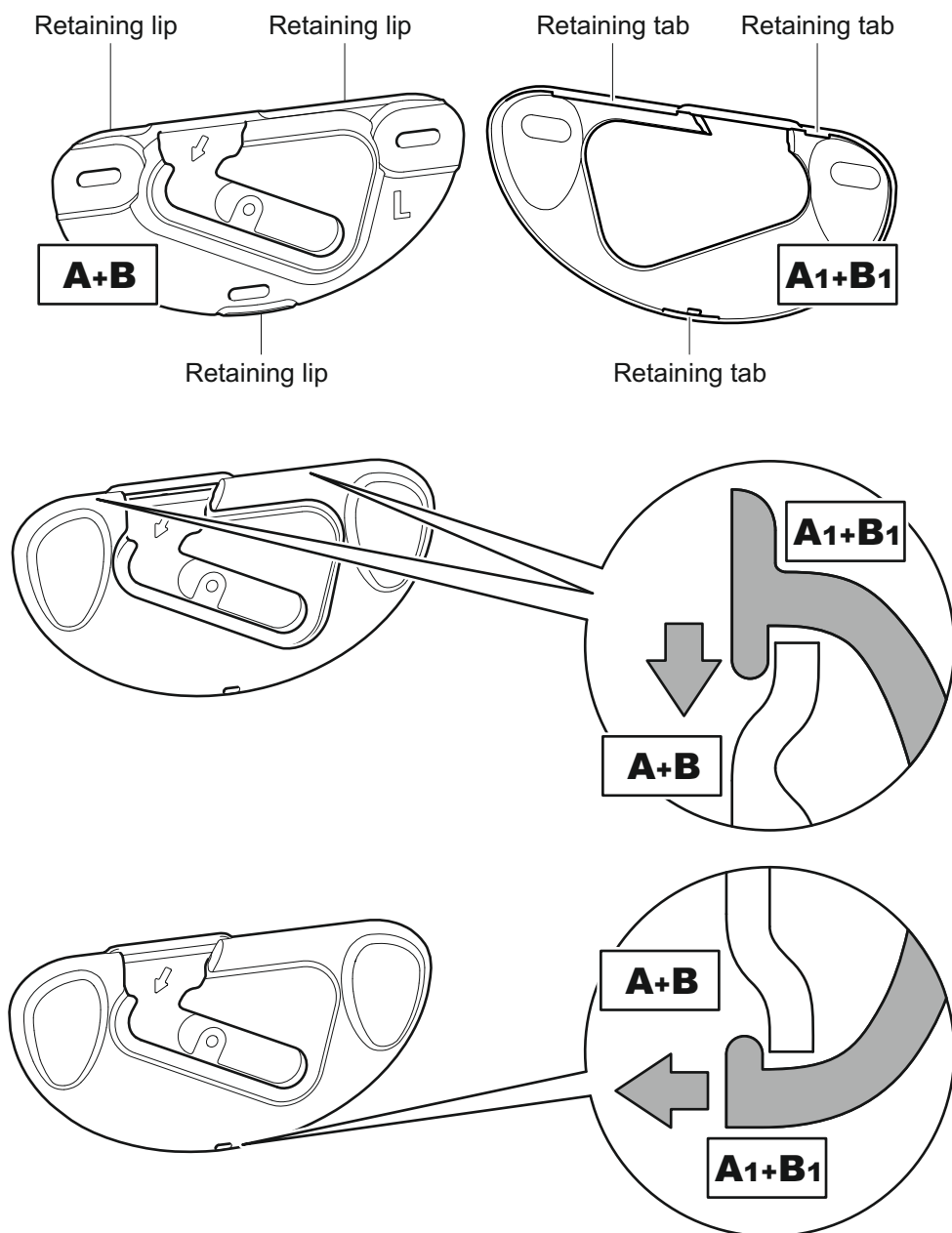


Only one fixing will be in the metal stud. The other fixings will be in plasterboard (see above)

# 15 Fitting the Wall Bracket Covers

Tilt Position only

On wall bracket covers **A1** & **B1** are 3 retaining tabs. These locate onto 3 retaining lips on wall brackets **A** & **B** and lock the wall bracket covers in position.





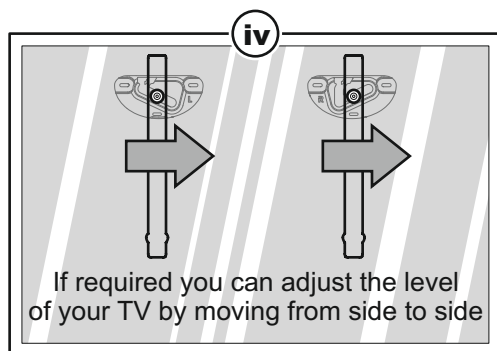
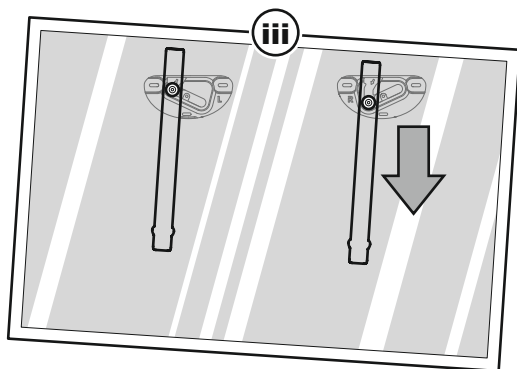
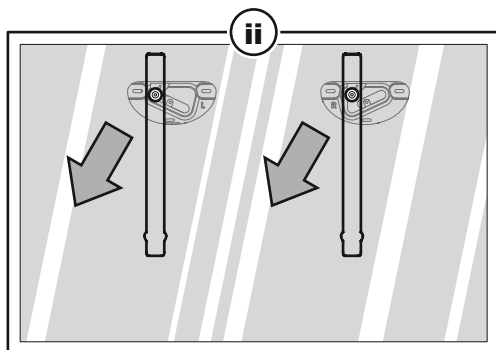
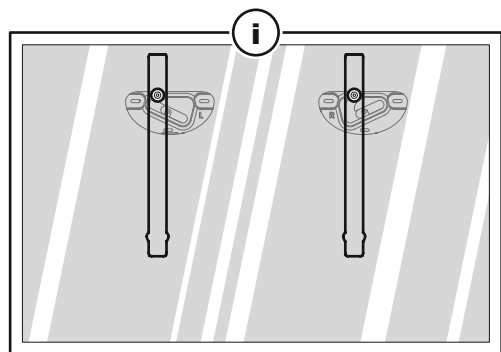
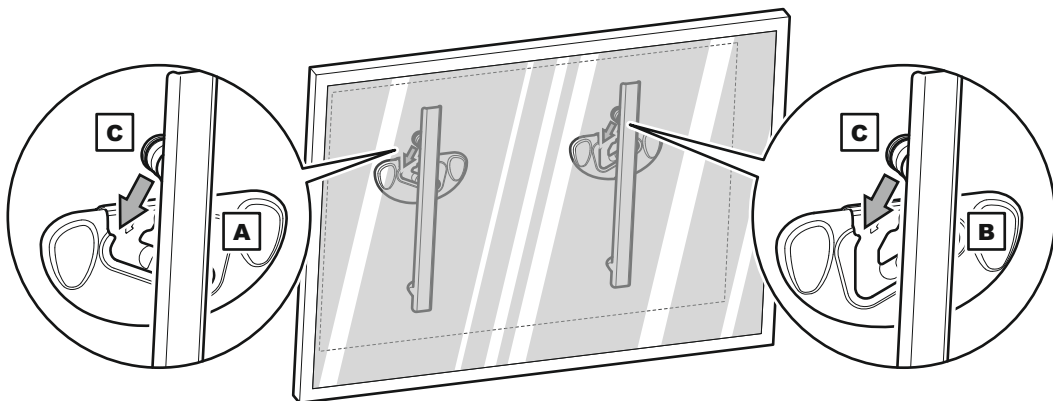
# 16 Hanging the TV

**Tilt Position only**

## Hanging the TV is a two person job.

Present hangers **C** (on the back of the TV) to the opening on brackets **A** & **B**. Slide down and across into place. Ensure both hangers are fully engaged. If cables from the TV prevent the TV resting against the wall then an alternative hanger configuration will be required (see section 12).

TV must be parallel to wall. Use spacers / stand-offs as shown in section 12.



## Removing the TV

This is a two person job. To remove the TV reverse the movements as shown above.

## Removing the Wall Bracket Covers

Should you want to remove the wall bracket covers please follow the steps below.

