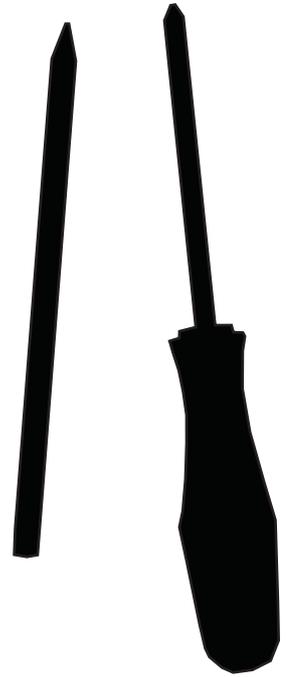
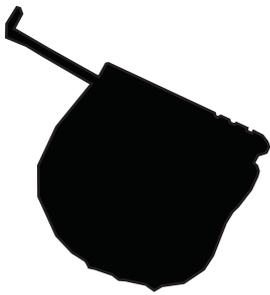




We have made the shelving system as simple as possible to install and any competent builder or handyman should be able to fit the system. Please follow the guide accurately as it's important to install the system correctly and the quality of the installation can effect its performance. The size of load it can carry will also depend on the strength of the wall (eg brick or plasterboard) and the fixing method to carry its load (wall plugs or cavity wall fixings).



NB* PIPES AND ELECTRICS

Before drilling any holes in your walls always check for any services behind (pipes & cables). Detectors are available from most DIY stores and once installed never sit or stand on your shelving system.

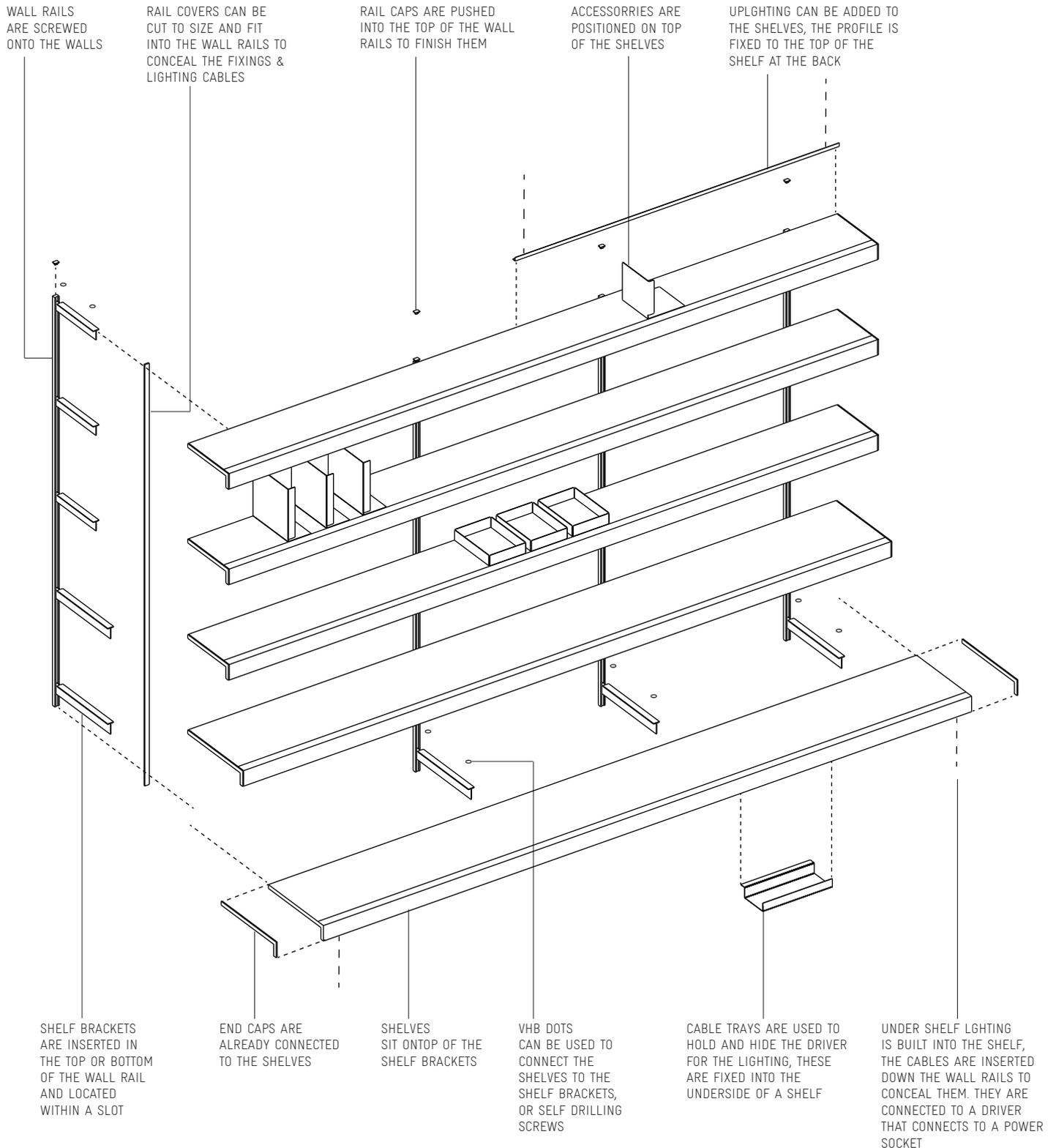
WORKING AT HEIGHT

Ensure you follow suitable health & safety guidelines when working at height. Our systems are usually fitted below 2.4metres in height and only a small height increase may be required. We recommend using a suitable, stable and level 'work platform' to install from and not a ladder when drilling holes.

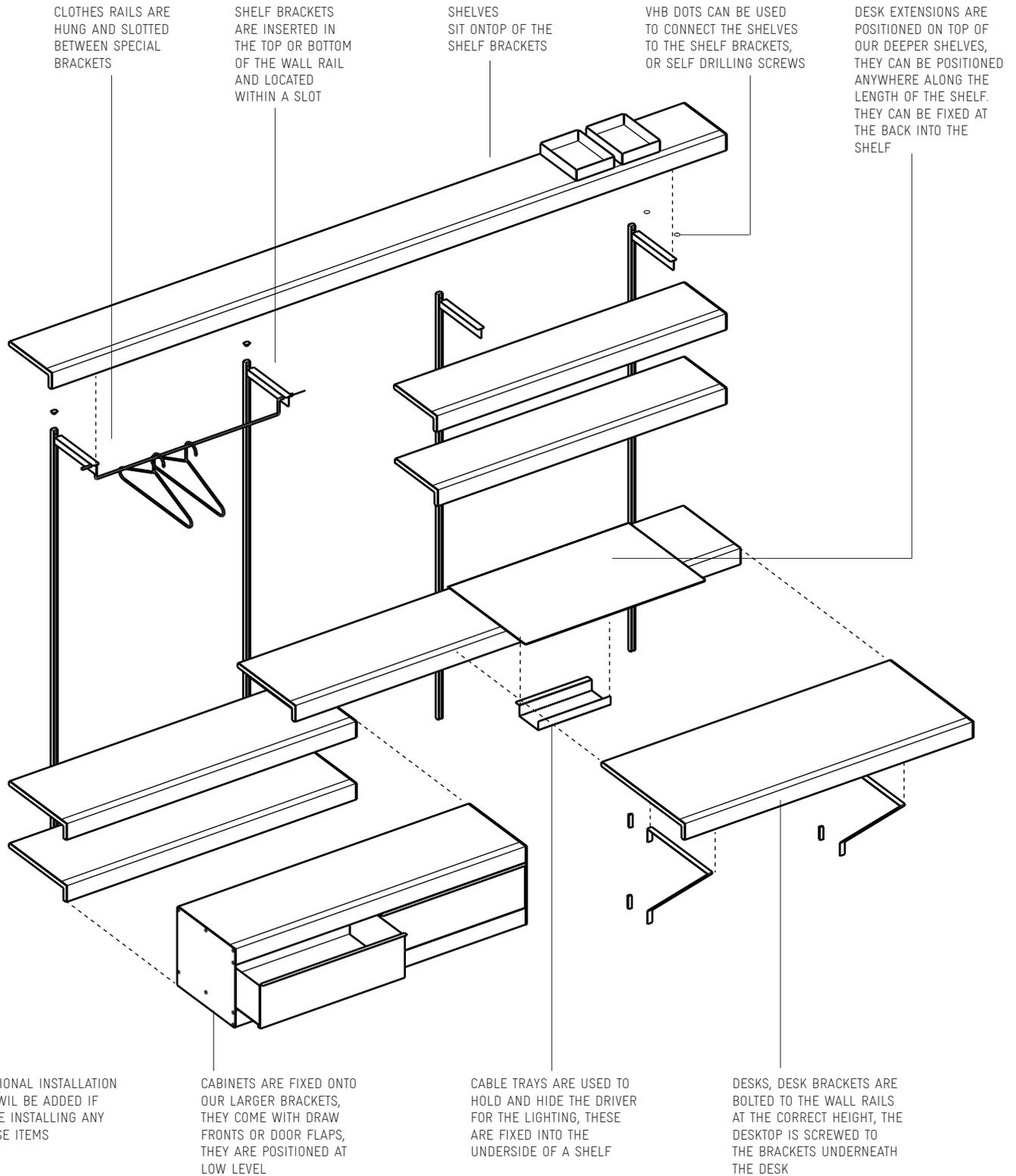
LONG SHELVES

We would recommend using 2 people to fit our shelving system if any of the shelves are over 3 metres in length. Our deepest shelves (345) can also weigh up to 24kgs (5m length).

The diagram below shows all the parts to the standard system and how they go together. The wall rails screw directly into the wall, all the other parts are connected to them creating a very strong wall shelving system. Your system may not have all these parts but the principles will be the same.



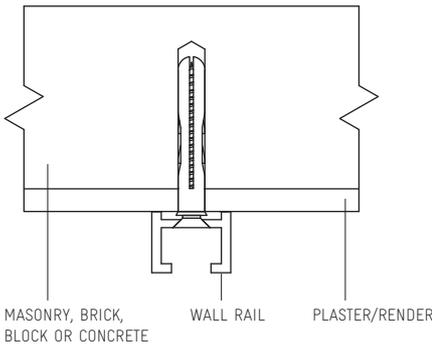
The diagram below shows additional parts to the shelving system and how they go together. These parts can be designed into your system at the beginning or added to at a later stage. If you want to move your system in the future and if required we can also resize your shelves and rails to suite a new configuration.



It is important to know what type of wall you are fixing the shelving system to. Below we have listed the most common types of wall and our fixing method. We supply solid and cavity fixings as standard, but if you have any problems or would like fixings that work with dot and dab plasterboard walls please let us know.

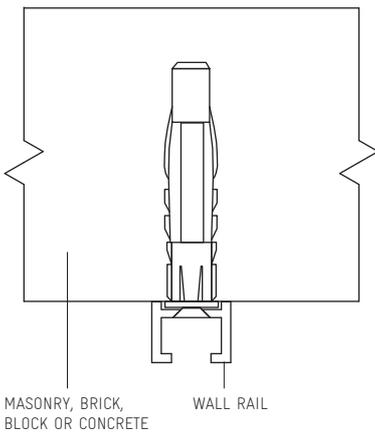
NB* When you are drilling holes in the wall ensure you wear safety glasses or similar to protect your eyes

NB* Follow our tips



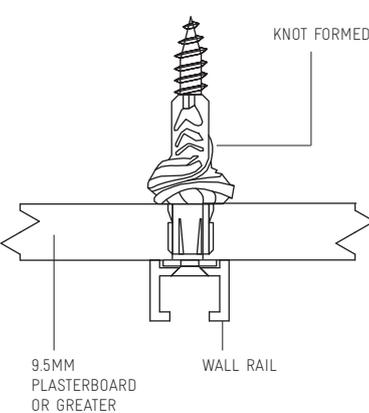
WALL PLUG FOR BRICK AND MASONRY
DRILL DIAMETER 5.5MM
DRILL DEPTH 35MM

SCREW 40MM COUNTERSUNK



WALL PLUG FOR BRICK AND MASONRY
DRILL DIAMETER 8MM
DRILL DEPTH 60MM

SCREW 60MM COUNTERSUNK



WALL PLUG FOR CAVITY WALLS
DRILL DIAMETER 8MM
DEPTH 60MM

SCREW 60MM COUNTERSUNK

TIP1 Use a piece of wire with a 90 degree small bend at one end to gauge the thickness of your cavity wall, insert it into a drilled hole and pull it back then mark the length.

TIP2 Drill a pilot hole with a smaller drill bit to position a hole more accurately.

TIP3 If you make a mistake drilling holes or have crumbling brick walls you can enlarge the hole and refill the hole using epoxy putty. This hole/area can then be redrilled.

SOLID WALLS (GOOD QUALITY)

Use the hammer setting on the drill. Drill the hole (40mm deep) with a masonry drill bit and use a hammer setting, then clean the hole. Insert the plug and tap until flush with the wall. Tighten the screw using the correct screwdriver. If the plug spins or does not hold the screw tight try using the larger wall plugs below. (You can redrill the existing hole larger)

SOLID WALLS (POOR QUALITY)

Use the hammer setting on the drill. Drill the hole (60mm deep) with a masonry drill bit and then clean the hole. Insert the plug and tap until flush with the hole. Tighten the screw using the correct screwdriver. We would always recommend tightening the last part by hand to ensure you don't overtighten (you don't want the plug to fail) You should be able to keep tightening the screw by hand until it stops rotating.

CAVITY WALLS (PLASTERBOARD)

Use this universal wall plug for any cavity wall or plasterboard wall that has a thickness of 9.5mm or more. Fitted correctly these are exceptionally strong, they require the longer screws supplied (60mm). When tightened the screw pulls the plug back to form a knot behind the plasterboard.

Drill a 8mm diameter hole through the plasterboard, insert the wall plug and, tap it with a hammer until the collar is flush with the plasterboard. Use a powered screwdriver to tighten the screw partially fitting the rail against the plasterboard. It is best to do the final tightening by hand. You should be able to tighten it until it almost goes solid with no rotation from the screw.

*** Ensure you test the fixings are working correctly it is important that they are fully tightened and a knot forms at the back inside the cavity. This means the wall plug cannot be pulled out***

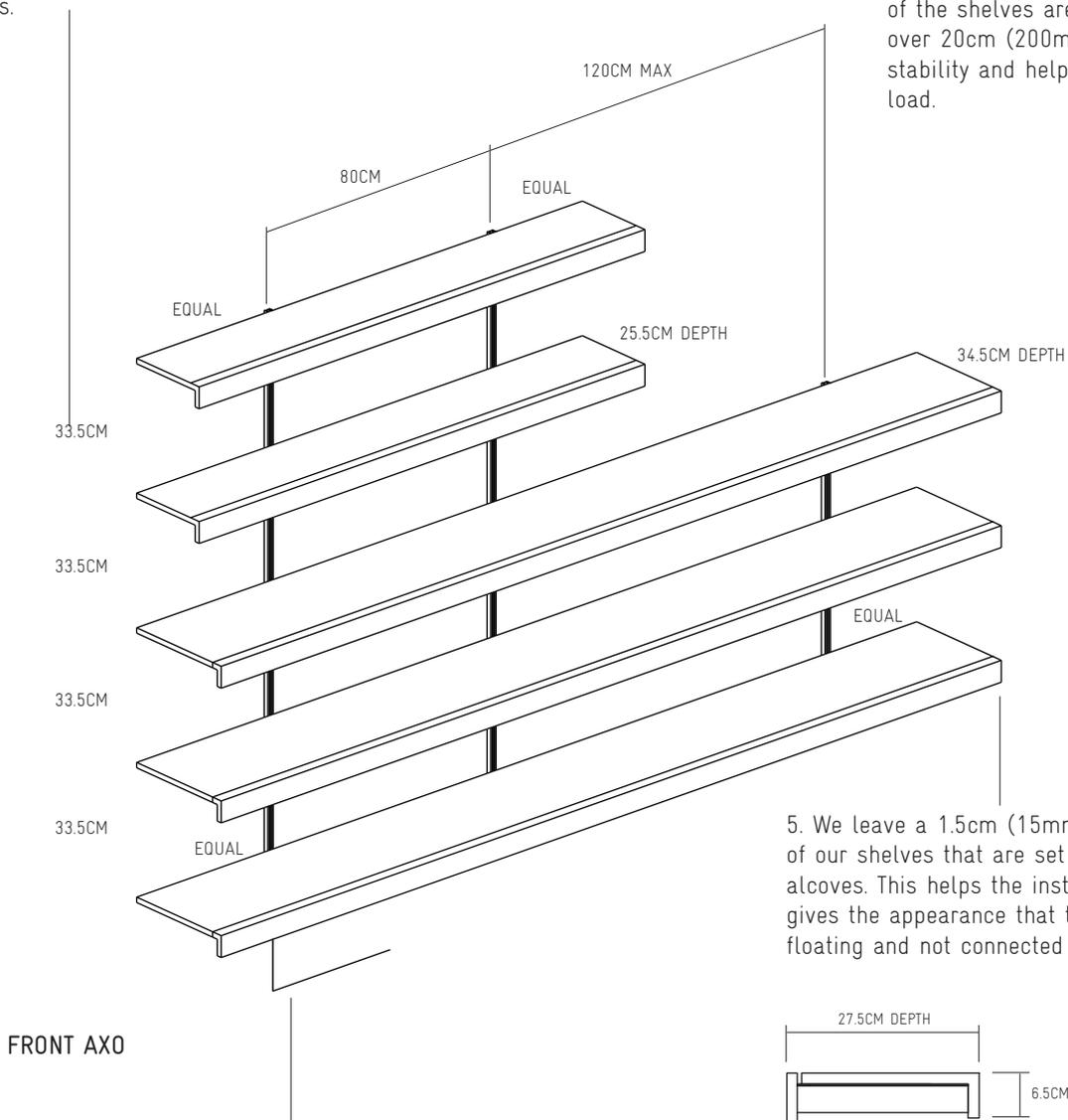
The system can take very heavy loads, but it does depend on the quality of the installation, quality of wall and fixing method. We recommend that all the fixing points on the wall rails are used (every 15cm) and that the appropriate fixing is used for your wall type, please see our wall types & Installation Guide.

NB* You must not sit or stand on any part of the shelving system.

1. Our recommended height between shelves is over 33.5cm (335mm). Alternatively they can be positioned at any distance apart in 5cm (50mm) increments.

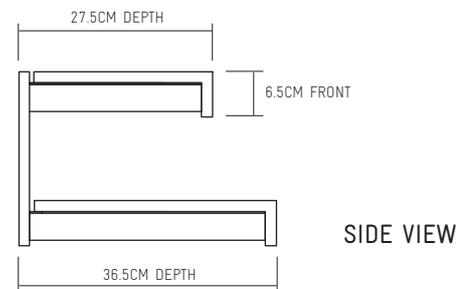
2. The wall rail centres are positioned 80cm apart and the shelves are centred horizontally across them.

3. We would not recommend spanning a distance greater than 1200mm between the wall rails. Ensure the rails are set out correctly so that both remaining ends of the shelves are equal in length and over 20cm (200mm). This ensures stability and helps to create an equal load.



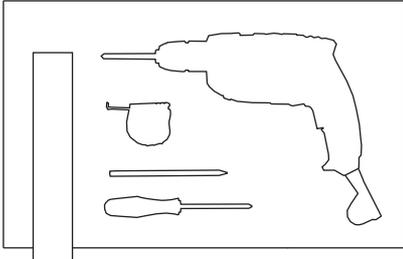
5. We leave a 1.5cm (15mm) gap either side of our shelves that are set between walls or alcoves. This helps the installation and gives the appearance that the shelves are floating and not connected to the wall.

4. Our lighting shelf uses low energy led strips. The led cables are concealed within the shelf and run down the inside of a wall rail. The driver that powers the strips can be located on the underside of the bottom shelf or fixed to the wall but the driver does need to be connected to a standard power socket (UK unless requested).



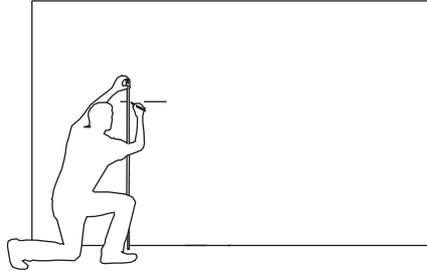
6. Shelf depth, add an additional 2cm for the wall fixings, the total shelf depths are 27.5cm and 36.5cm from the wall to front face of the shelves.

Follow the steps below to fit your shelves and connect your lighting. There are individual pages to follow for cabinets, desks, desk extensions and an additional lighting sheet. We will provide you with the correct setting out drawings and fixings for your walls, but if you do not want to install the system yourself, any competent builder or handyman will be able to fit the system for you.



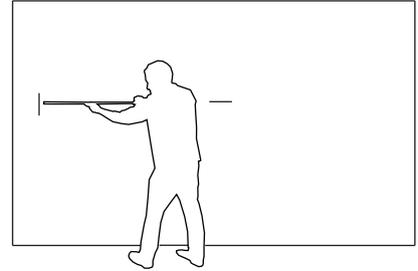
01 TOOLS FOR THE JOB

Tools for the job:
Tape measure, pencil, spirit level (80-100cm), 5.5mm drill bit/8mm drill bit (general purpose or masonry), drill (power), driver (power), screwdriver, suitable wall fixings, detector (cables & pipes).



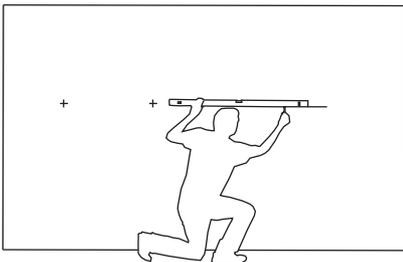
02 MARK OUT THE SYSTEM HEIGHT

Use our quotation as a template to set out your system. Use a tape measure to mark out the height of the top of the first wall rail. Position the wall rail & mark the top hole position, mark the hole centre. The wall rail top hole is labeled on the wall rail.



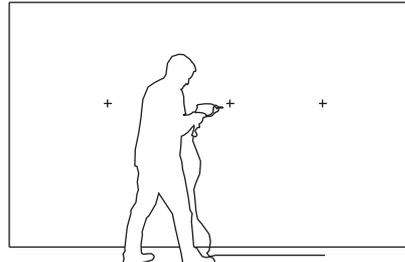
03 POSITIONING THE FIRST RAIL

Now you have the correct height the aim is to mark out all the top hole rail positions. Use a tape measure to set out the first wall rail, measure the correct distance away from a side wall or similar. Mark the centre of the top rail hole, so it's in the correct horizontal location.



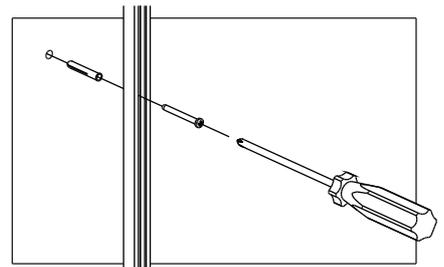
04 THE OTHER RAILS

Use a measure to mark out the position of the other wall rail top holes from your first hole location. Rails are usually set out every 800mm but check your drawing. Next work along with a spirit level to mark/level all the hole heights.



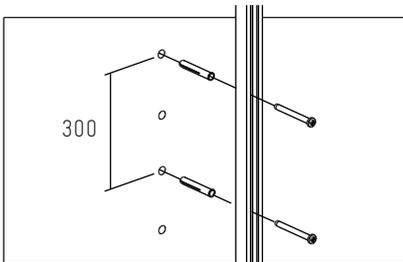
05 FIXING A WALL RAIL

Drill the top hole for the first rail. Use the appropriate drill bit/ wall fixing and insert the wall plug or cavity fixing. The top holes are always the most important to get right and accurate. Follow all our fixing tips on page 4.



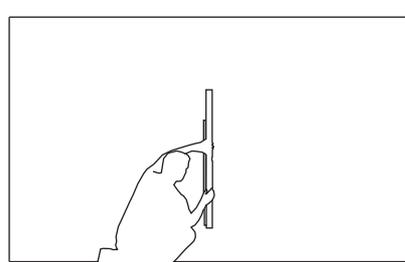
06 WALL RAIL

Screw in the wall fixing and rail against the wall, check that your top hole fixing works and is sound. If correct loosen your fixing slightly and the wall rail will now hang in place.



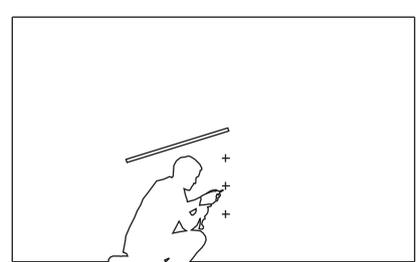
07 WALL FIXINGS QUANTITY

Your wall rails have fixing points every 15cm/150mm but if you are fixing your system to solid walls (brick/concrete block etc) you may be able to use only every other point 30cm/300mm, but this does depend on the quality of the wall or loading required.



08 ALL VERTICAL HOLES

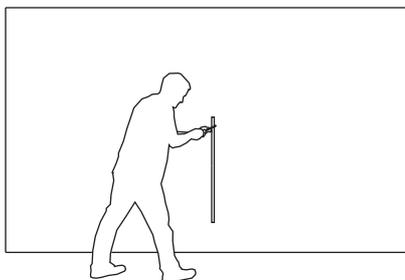
Ensure the wall rail is hanging vertically using a spirit level. Use the rail holes to mark out the centres of the remaining holes. Re-check your hole locations as it's important they are accurate and that you position the mark in the centre of the holes.



09 DRILL THE HOLES

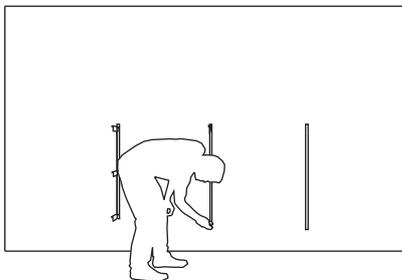
Swing the rail to one side, you may be able to tighten your top fixing so that the rail stays in place. Drill all the holes marked out below to the correct depth and clean the holes to remove any loose particles or dirt. Insert your wall plugs or wall cavity fixings.

Continue following the next steps below to fit your shelves, rail covers. If there are any problems during the installation we are always happy to help, you can contact us on +44 (0)1727 834034 or email us at studio@madebyonandon.com.



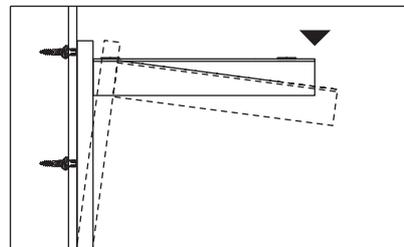
10 CONNECT THE RAIL

Loosen your top hole fixing and swing the rail back into position. Insert the remaining fixings and tighten the screws against the rail. Repeat this for all the other wall rails. The rails should now be firmly connected, check all the screws are tight and fitted correctly.



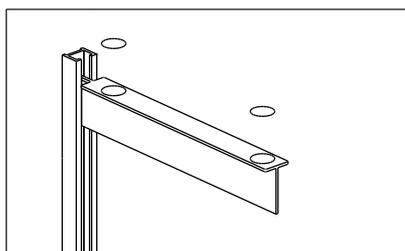
11 SHELF BRACKETS

With all the wall rails fixed in place you can slide the shelf brackets into the wall rail either from the top or bottom. The back of the bracket locates into the rail slots. The height of the bracket determines the position and height of the shelves.



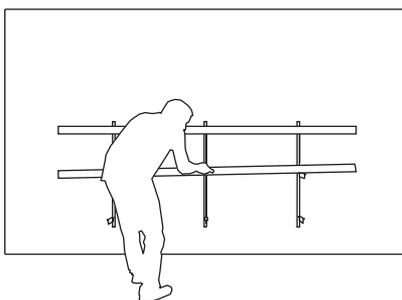
12 TOP FIXING CHECK

*** YOU MUST CHECK YOUR TOP FIXINGS TO ENSURE YOU HAVE FITTED THEM CORRECTLY. PULL DOWN ON A BRACKET WITH ADEQUATE PRESSURE. YOUR RAIL MUST NOT PULL AWAY FROM THE WALL. IF YOUR FIXINGS ARE CORRECT THE WALL RAIL WILL STAY IN CONTACT WITH THE WALL.***



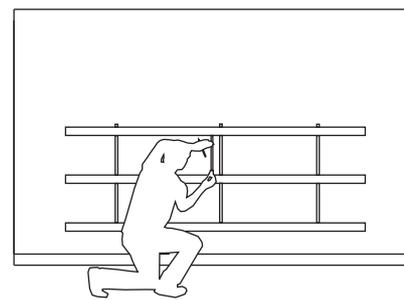
13 FIXING YOUR SHELVES

Use our VHB dots to bond the shelf to the bracket to stop any movement, just peel off the paper backing and lower the shelf down on top. We can supply self drilling screws for a stronger fixing if required.



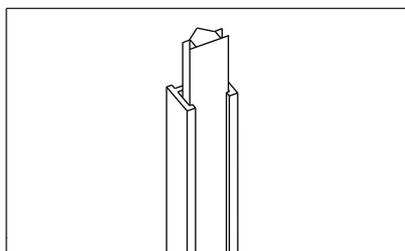
14 FITTING YOUR SHELVES

Ensure the brackets are at the correct heights you would like, they are adjustable by 5cm/50mm up or down, so adjust the heights until you are happy and lift the shelves onto the brackets. If you need to remove a shelf see our removal instructions (page 12).



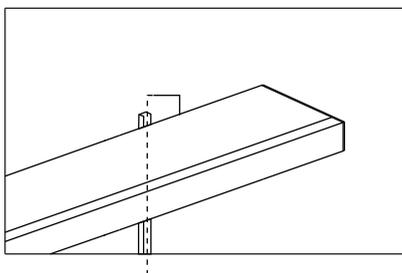
15 WALL RAIL COVERS

These can be fitted to your wall rails to conceal any screw fixings and slots, or if you are fitting shelves with lighting they will conceal any lighting cables.



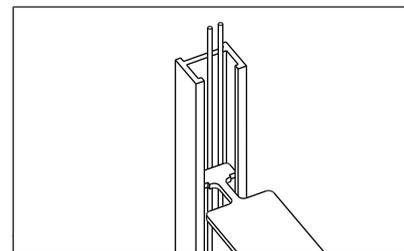
16 WALL RAIL COVERS

Measure the height between your brackets and cut the covers to match. The covers should be pushed into the rail completely. Use diluted washing up liquid and the back of a plastic spoon (or similar) to help to insert the covers, or see our news/blog video.



17 SHELVES WITH LIGHTING

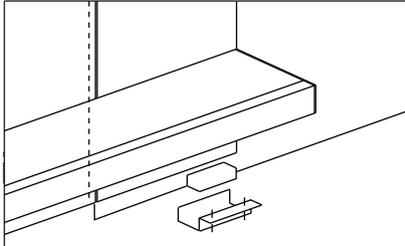
Our shelves with undershelf lighting come fitted with the cables taped to the back of the shelf ready to install. Untape the cables. The cable hole should line up with one of the wall rails. Insert the end of the cables into the wall rail, behind the bracket and feed them down the length of the rail. (see our lighting installation sheet)



24 LIGHTING CABLES

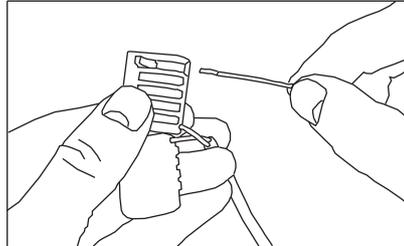
The led cables fit behind the bracket, so that the shelf heights are still adjustable, use a rail cover supplied to conceal the wires and fixings. Cut the cover to the correct length and push them into the rail. Use the back of a plastic spoon or similar and diluted washing up liquid to help insert it.

Follow the final steps below to fit your shelves and connect your lighting. After installation a regular wipe over with a soft cloth to remove any dirt deposits is all that is normally required, but see our care and maintenance - page 12 for more detail.



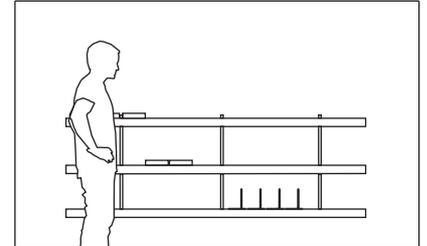
25 CONCEALED CABLING

Ensure the cables run down inside the wall rail, behind any brackets and comes out at the bottom near the floor. Connect the cables to the driver and use a cable tray to position it underneath the lowest shelf, alternatively fix it to the wall or conceal it remotely.



26 CONNECTING THE DRIVER

Connect the white leads to the driver using the wago clips, connect the positive (red wire) to the positive (red wire) and negative (black wire) to negative (black wire). Pull back the orange clips until they click upright, insert the lead fully and close the lever to make the connection, repeat with all the leads from the shelves to make the circuits.



27 FINISHING OFF

After completing the circuit plug in the driver to a (UK) mains power socket and turn on the switch to light your shelves. Make sure any loose cables are tidied up or shortened if required, use the cable ties supplied and position them into the cable tray. Place any of our accessories on the shelves and arrange them to finish off.

If you need to remove a shelf or reposition one you will need to read the instructions below:

1. First check to see if any of the shelves have been secured in place using self drilling screws, these could be connected through several shelf brackets per shelf.
 2. If no screws are located the shelves are just connected using our VHB adhesive pads between the bracket and underside of a shelf. If screws are located remove them before following the next steps to release a shelf from the bracket.
 3. Hold the front of the shelf with one hand (if shelves are very long (over 2.4m use 2 x people to help)
 4. Use your other hand to pull up the back of the shelf, keeping the shelf front in the same position.
 5. You may need to pull up sharply at the back for the shelf to come away from the adhesive dots.
 6. The dots should be OK to be reused when the shelf is positioned back on top of the shelf brackets. If not use self drilling screws or contact us for more VHB dots.
-

CARE & MAINTENANCE NOTES

Our shelving system is easy to look after.

- To clean your shelving, desks and cabinets use a clean damp cloth (non abrasive) to wipe the painted (powder coated finish) surfaces (or laminated desk top or solid wood front)
- You can use a little bit of soap and water, but for a deeper clean use something with a small amount of vinegar. You can either make up your own (diluted white vinegar and water 1/2 ratio)
- Alternatively use a window cleaner that degreases and is streak free. You can spray this directly onto the powder coated surfaces and wipe clean with a dry non abrasive cloth.
- For our shelves with solid wood fronts use a clean damp cloth (not wet) and wipe the wood in the direction of the grain with a warm solution of mild washing-up liquid, don't apply the diluted washing-up liquid direct to the wood front but just dampen the cloth.
- The wood fronts are solid wood so if in years to come they have picked up too much dirt they can be lightly sanded to renew their finish.
- Walnut shelves occasionally have tung oil a natural tree oil applied to bring out the grain and colour, this can be reapplied if needed. If any of your wood surfaces become wet just wipe them down with a dry cloth to remove any excess liquid.
- After adding larger items or weight to your system, or from time to time check your wall rails are still connected securely to your walls. Check the top of the wall rail to ensure the wall fixings are not failing, the back of the rails should be flat against the wall with no visible movement.
- Never sit or stand on a fitted systems and don't over load the system each shelf bracket is design to take 20kgs but please also follow the setting out principles in the installation guide.
- Standard finishes are powdercoated for all aluminium parts (white satin Ral 9010 or black matt 9005)

Please contact us below at our studio and workshop. Speak to one of our planners for our free planning service.

ON&ON creative systems Ltd.
Unit 6 Executive Park,
Hatfield Road, St Albans,
Hertfordshire, AL1 4TA

T- +44 (0)1727 834 043
E- Studio@madebyonandon.com
W- www.madebyonandon.com

We are open:

Monday 9.30am – 5.00pm

Tuesday 9.30am – 5.00pm

Wednesday 9.30am – 5.00pm

Thursday 9.30am – 5.00pm

Friday 9.30am – 3.30pm

and closed on UK public holidays.