TV wall unit for flat screen television

A stylish surround

TV wall unit
There's always something great to watch with this TV wall unit – even when the TV is switched off.

1 Introduction
If you are going to install a brand new flat screen TV on your wall, you'll want the surrounding decor to be up to scratch. Our self-assembly TV wall unit is the solution.
By the way: Assembly instructions are also available for a slimline TV console with open shelves and drawers to match this wall unit.
The following construction guide applies to 19-mm-thick medium-density fibreboard (MDF). You must adapt the list of materials accordingly if you opt for other materials or material with a different thickness. Ask your DIY store or carpenter to cut the required boards to size.
Our TV wall unit is mounted to the wall on special suspension rails. Spacers fitted at the bottom of the unit are used to adjust the distance between the unit and the wall. The suspension rails are fitted to the back of the rear panel and on the wall. Since the rails are always cut in pairs at a 45° angle from an MDF board, you will have matching pieces intersecting at angles, thus preventing the rear panel from slipping down or forwards.
We have fastened a reinforcement panel to the back of one of the rear panels, providing a secure backing for the flat screen TV, which, if large, may be very heavy. The cables are passed through to the back of the wall unit through the cutout, which is adjusted to size.

Required power tools:
> Table saw
> Multi-sander
> Cordless drill/driver
> Cordless screwdriver
> Fine spray system

Other accessories:
> Set of wood drill bits
> Countersink bit
> Sanding paper, grits of 120–240
> Folding rule, soft pencil, rubber, pencil sharpener
> Putty or wood putty

**Detailed material list:**

<table>
<thead>
<tr>
<th>pcs</th>
<th>Designation</th>
<th>Length</th>
<th>Width</th>
<th>Thickness</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Left/right rear panel</td>
<td>1,600 mm</td>
<td>1,200 mm</td>
<td>19 mm</td>
<td>MDF</td>
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<tr>
<td>4</td>
<td>Suspension rails</td>
<td>1,050 mm</td>
<td>60 mm</td>
<td>19 mm</td>
<td>MDF</td>
</tr>
<tr>
<td>2</td>
<td>Spacer bars</td>
<td>1,050 mm</td>
<td>60 mm</td>
<td>19 mm</td>
<td>MDF</td>
</tr>
<tr>
<td>1</td>
<td>Reinforcement panel</td>
<td>800 mm</td>
<td>200 mm</td>
<td>19 mm</td>
<td>MDF</td>
</tr>
<tr>
<td>2</td>
<td>Shelf bases</td>
<td>202 mm</td>
<td>160 mm</td>
<td>19 mm</td>
<td>MDF</td>
</tr>
<tr>
<td>2</td>
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<td>800 mm</td>
<td>160 mm</td>
<td>19 mm</td>
<td>MDF</td>
</tr>
<tr>
<td>1</td>
<td>Shelf rear panel</td>
<td>800 mm</td>
<td>160 mm</td>
<td>19 mm</td>
<td>MDF</td>
</tr>
<tr>
<td>approx. 10</td>
<td>Wood screws, 4 x 35 mm</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

2 **Making the suspension rails**

Cut two suspension rails (one for the rear panel and the matching piece for the wall) at a 45° angle from a board measuring 1050 mm in length and 120 mm in width. Adjust the saw blade of the circular saw to 45° and split the suspension rail board in lengths.

Using the drill and 4-mm wood drill bit, pre-drill holes in the suspension rails and countersink the holes. Follow the same procedure for the spacer bars and the reinforcement panel.

3 **Mount the suspension rails, spacer bars and reinforcement panel**

The suspension rails and spacer bars must be mounted precisely to ensure that the wall unit is fitted securely and accurately. Therefore draw a triangle symbol across the abutting edges of the back of both rear panels to mark their respective positions. You thus always know what goes where at a later stage of assembly.

Now place the left and right rear panels with the front facing downwards on trestles or a flat surface. Then position the suspension rails on the back in accordance with the specifications in the illustration and fasten them using the pre-drilled holes with a cordless screwdriver and screws (4 x 35 mm). (Ensure that you fit the suspension rails on the other rear panel at exactly the same height.) Follow the same procedure for the spacer bars and the reinforcement panel. Mount the reinforcement panel at the point where the TV will be fitted.
4 Joining the shelf sections
A shelf consists of two side panels enclosed by two shelf bases. Place the sections together in the way you want to assemble them and mark their respective positions using triangle symbols on the rear edges so that you always know what goes where at a later stage of assembly. Now use the drill and 4-mm wood drill bit to pre-drill holes for fastening the shelf bases to the side panels. Countersink the holes on the outside to prevent the screw heads from standing out on the base surfaces. Using the cordless screwdriver and screws (4 x 35 mm), fit the shelf sections together to form a frame. Remember to countersink the screw heads properly. The holes will be filled in with putty later when the surfaces are treated. On the back of the shelf rear panel, use a pencil to trace a line 10 mm in from and around the outer edge. Along this line, use the drill and 4-mm wood drill bit to make the holes for fastening the shelf at a later stage. Countersink the holes. Now mark the positions of the four holes required to fit the shelf on the TV wall unit: In each case, the drilling point is located at 60 mm from the side edges and 80 mm from the top and bottom edges. Again, pre-drill the holes as described in the previous section and countersink the holes. Place the shelf frame on its visible edges, align the shelf rear panel on top so that it is flush with the edges and secure it in place with the cordless screwdriver and screws (4 x 35 mm).

5 Joining the shelf to the TV wall unit
You have two options: You can either arrange the shelves on the TV wall unit according to your own taste or requirements, or follow the layout in our illustration. In our layout, we have left gaps between the shelves to allow plenty of room for DVDs. Place the rear panel onto which you want to fit the shelves onto trestles, with the front of the panel facing upwards. Arrange the shelves on top and fasten them with screws and the cordless screwdriver through the pre-drilled holes in the rear panels.

6 Preparing the surfaces
Take time to prepare the surfaces so they are in the best working condition possible before starting assembly. First, fill all screw holes in the MDF surfaces using putty or wood putty. Once the putty is dry (check the manufacturer’s instructions), sand the area smooth using sanding paper with a grit of 120. First buff all MDF edges with sanding paper with a grit of 120 at a 45° angle to create a small bevel. Use a sander and sanding paper (grit of 120 – 180) to work the MDF surfaces.

7 Surface treatment
To achieve a perfect finish on your furniture, paint the sections before assembly.
First read the manufacturer’s safety and handling instructions thoroughly. Make sure the room you are working in is well ventilated and not used for smoking, eating or drinking.

Apply the priming filler with the roller or with a paint spraying system if necessary. Allow it to dry completely.

You should change the paint tank if you want to apply another material with your fine spray system in the next step.

8 Painting the visible surfaces
Pour the paint into the paint tank and dilute it if necessary with water. Using a test board, adjust the spray jet at the nozzle and the paint flow at the setting wheel. The spray jet can be set to horizontal or vertical for surfaces and tapered for edges. Ideally, you should first paint the inner edges, then the outer edges and then finally the surfaces; working on these with even, parallel strokes.

9 Done!

Bosch does not accept any responsibility for the instructions stored here. Bosch would also like to point out that you follow these instructions at your own risk. For your own safety, please take all the necessary precautions.