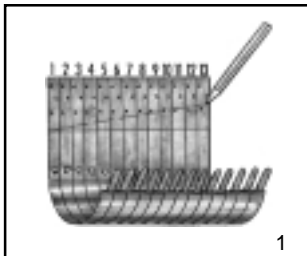
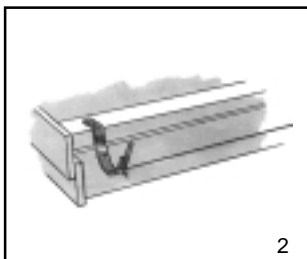


Rainwater system - assembly instruction

Borga rainwater system is produced according to European norm no. 612, which gives it the possibility to combine with other systems. It is prepared to handle snow and ice loads. The system has an high resistance to scratches and other damages due to durable paintsystem and quality of steel. Area of the roof determines how to dimension the system. With large roofs and long distance between downspouts, a gutter with a section of 150 mm can be needed, on other, normal family houses a gutter of 125 mm is adequat.



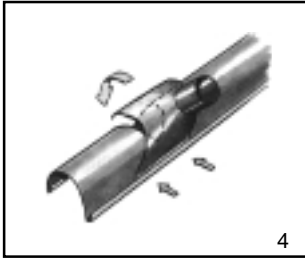
1. Gutter hooks should be installed approximately in every 60 cm. They need to be bended/installed in such a way that a slope of 5 mm per meter, towards a downspout, is achived. You can draw a line of bending (see picture) and number the gutter hooks. If you use eave board, bending is not necessary.



2. First and the last gutter hooks needs to be fastened 10 cm from the edge of gutter. You can check the slope buy putting a string between them. If the roof is longer than 12 m you need to use two downspouts. In such a case you should install a gutter with slope on both ends towards downspouts.



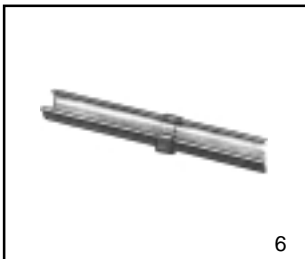
3. Establish the distance between downspout and the edge of the gutter. Make two slanting cuts to have a 10 cm hole. Turn down the edges into the connection gutter-pipe in order to get more efficient water outflow.



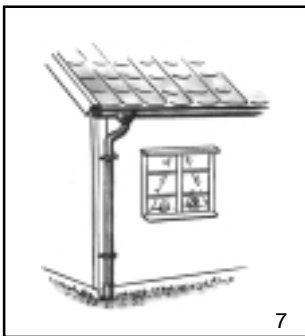
4. Bunt edge of the connection gutter-pipe put on the gutter. Press it against the gutter so and attach with the use of protruding handles.



5. Put a roofers' silicon on the gutter and press a gutter gable against the gutter. Hit the gutter gable gently in order to drive it deeper.



6. To connect gutters use a gutter joint. After putting together two gutters, put the gutter joint on the end of the gutter. Stretch it a little and move towards the connection.



7. Upper downspout handle install right under a pipe bend. Distance between the handles should be approximately 2 m. For wooden elevation, fasten the handles with nails. In case of brick walls, use the handles with stud-bolts.



8. A protective wedge should be installed according to drawing 8.