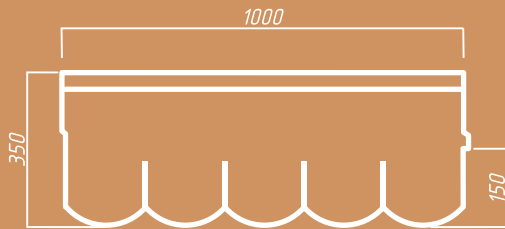


HAUSSMAN

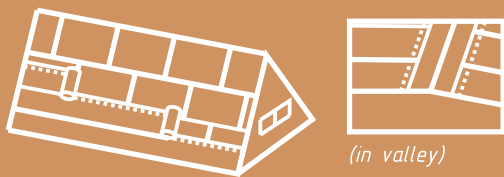
COPPER ROOFING
SHINGLES

INSTALLATION GUIDE
HAUSSMAN BIBER

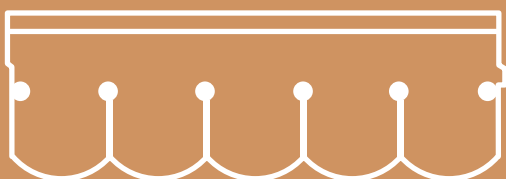
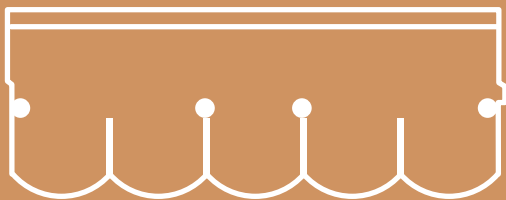
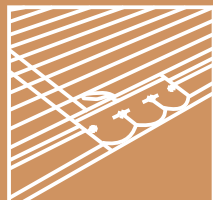


Main characteristics

Number of sheets in 1 package, pcs.	21
Covering surface of 1 package, m ²	3.05
Bitumen Type	SBS
Shingle size, mm	1000x340
Sheet visible part, mm	145
Copper coat thickness, micron	70
Copper coat width, mm	295
Minimal roofing pitch	12°



Entry range material



HAUSSMAN BIBER

For installation of shingle roofing Haussmann Biber it is necessary to have an even, dry and clean surface, which could be made of oriented strand boards, extra water resistant ply wood, match boards, reinforced concrete plates. The joints of foundation elements must be placed in a staggered order, open for 3-4 mm., upon that the high difference should not exceed 2 mm.

WATERPROOFING LAYER

The additional waterproofing layer is made of roll SBS materials in the entire roofing surface in courses along the cornice, with long overlap of 10 cm and cross overlap of 20 cm. In case the roofing slope are less than 20 degrees it is recommended to use melting or self-adhesive leak barrier.

PLACEMENT OF MATERIAL

- Entry range should be made of the sheets StartLine. Install the sheets StartLine in the line of the cornice, preliminary laying the bitumen mastic on the reverse side of it. Fix the sheet 4 with the nails on the top edge (the axis of the nail line is lower than the upper sheet edge for 5-6 cm).

- The shingles is laid from the cornice line, preliminary deleting the protection film from the reverse side. Displace each next range for the half of shingle petal. The special raggles on the sidepiece of shingle will simplify the grading and displacement of ranges.

FIXING OF SHEETS

For fixing of copper shingle, use the copper or stainless clout nails. Each shingle sheet must be fixed with 4 nails in such a way, that the nail break also the top of underlying shingle sheet.

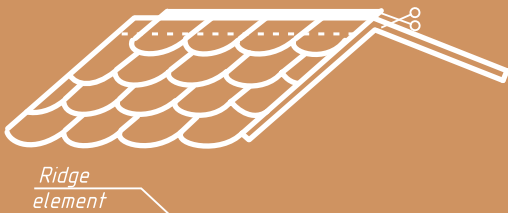
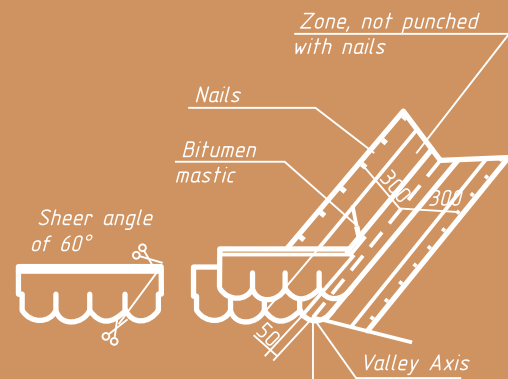
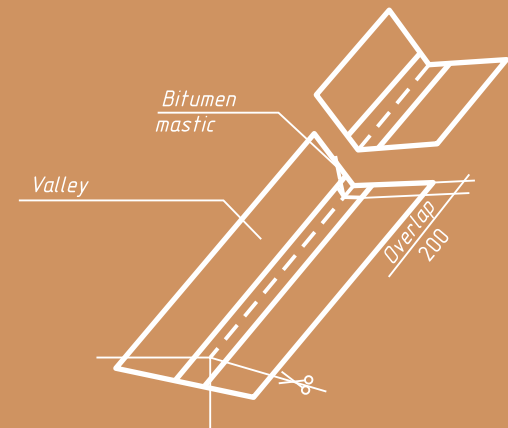
On the slopes with the angle more than 60 degrees and in areas with the increased wind loading the sheet must be fixed with 6 nails.

Valleys, abutments of roofing to the walls, counter flashing, dormer windows, etc. must be dressed with bitumen mastic. The bitumen mastic is applied like stripes of 2-3 cm and in thickness at most 1mm.

The Increase of mastic application does not lead to the improving of gluing and could injure the roofing material.

THE VALLEY

On the center of Valley on lay the special water-proof material "Valley Carpet". The top edge, put behind of the ridge line, must be fixed with nails, in the bottom – cut on the cornice line. The joints of "valley carpet" must be made with overlap of 20 cm, place of overlap on treat with the bitumen mastic. Carefully pressing the material to the roofing foundation, avoiding formation of air bubbles, fix the "valley carpet" with the nails at a pitch of 10 cm. Make marking on the visible part of valley and make the cutting of shingle sheets, putting them under plywood. Cover three stripes of bitumen mastic at a pitch of 5 cm. from the marked line. Lay the shingles on, not staving the "valley carpet" with nails.



Variant 1
Abutments to the pipes (walls)

THE RIDGE

The upper line of shingle should be made until the ridgeline (edge), projecting part should be bent over the ridge and fixed on the counter slope. The ridge is made of the special ridge elements Biber Ridge. Every ridge element must be fixed with two nails. Nail heads must be covered by the next element.

If You need to bent the ridge element, warm it up preliminary with the heat gun.

ABUTMENTS TO THE PIPES (walls)

The rows through the roofing with the small diameter (antenna etc.) are made using the rubber gaskets. The chimneys and other pipes, heat-affected, must be heat insulated.

Variant №1:

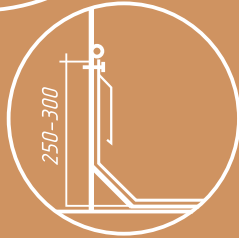
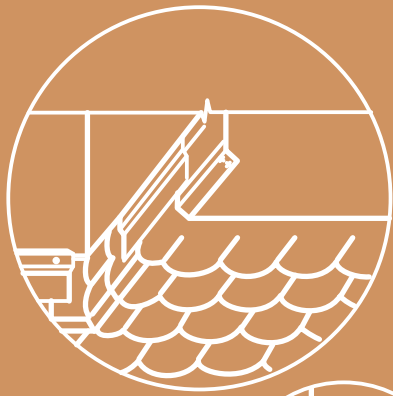
Fix the chimney apron across the matching of roofing with the pipe using cleats. Lay on the shingle, not leading it to the wall surface at 2-3 cm. Fix the apron to the wall mechanically and seal the seams with the roofing silicone.

Variant №2:

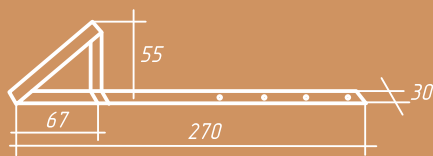
Across the matching of roofing with the pipe, fix the delta-shaped wood strip 5x5 cm. Then install around the chimney the backing material carpet, apply the bitumen mastic for the laps. Then lead the shingle to the vertical surface and paste it with the bitumen mastic. Fix the apron to the wall mechanically and seal the seams with the roofing silicone.

SNOW GUARD INSTALLATION

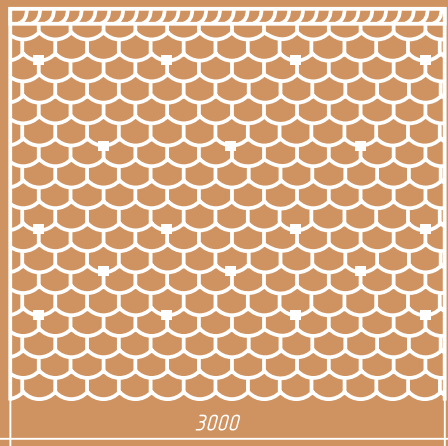
The Snow guard must be installed at the specified place on the schema. The snow guard is fixed with the self-drilling screws through the existing holes. The number and installation schema of snow guards are defined depending on climatic area, size and pitch of roofing. The recommended variant of snow guards installation is specified on the schema.



Variant 2
Abutments
to the pipes (walls)



Recommended snow guards
installation schema

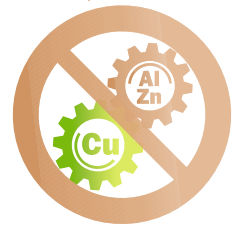


The snow guards are installed on the entire roofing ~1,5 pcs. for 1 m²
+ on cornice -2,5 pcs. for 1 r.m.

If You there is additional question, arisen while preparing or performing works, regarding applying of materials or work procedure, please, consult an expert of Your Haussmann distributor.

IMPORTANT!

It is prohibited to apply with the copper shingle the components, made of materials, electrolytic corrosive by the contact with copper (galvanized steel, aluminum etc).



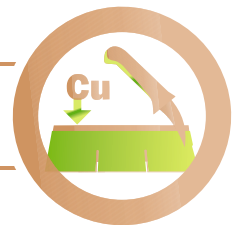
It is prohibited to use construction burner with free flame for heating of adhesive shift of shingle.

Do not install the trays with shingle against each other and do not allow the heating of shingle up to temperature above 40°C during storage. This could lead to the glueing of material in packages.



Incompletely deleted protection film blocks the glueing of shingle sheets on the roofing and could be the reason of leakage and wind injuries.

Shingle sheets are to be cut using the roofing knife on the copper side.



The installation is recommended to perform using knitted gloves.

At a air temperature below +5°C it is necessary to apply the hot air gun for heating of adhesive shift. In the cold weather please storage the shingle in heated room, taking away the material to the roofing directly before installation.

