

Steel truss bridge with rail track deck

– construction's instruction

LAS 4402 TT | LAS 5402 H0



We can find these bridges in the places of crossing the railway and road or small river where the depth of packing is not sufficient for the building of the stone arched bridge. The structural parts of the bridge contain usually 2-4 main beams and mutually connected crossbeams with the integrated runway. The length of bridge is usually about 18-20m. The bridge is sit at the abutment piers from stone blocks. The original grey painting is often overlayed by brown mixture of oil, rust, phenol and dust.

Preparatory works: First read the instructions carefully and look at all parts of the construction set. Think over each step of construction process and prepare all necessary tools and materials. Carefully remove all parts of the construction set from the cardboard – including the small bridge and all incisions which are throughout the cardboard. Prevent any undesirable breakage by carefully removing any parts that may not have been correctly created during the laser-cutting. I recommend to paint all part sof the bridže before the construction. You can spray the cardboard e.g. paint in the spray.

Necessary tools and materials: alcohol's paints, dispersed and seconds glue, knife for modellers, scalpel, cutting backplatte, steel rule, eraser, forceps, brushes numer 4, steel string or wire for road-fence

Set bridge: Glue part 2 on part 1 and part 4 on the cross of reinforcement. Now turn round the glued-up complex and glue part 3 from the second side. Insert part 6 overhead on the locks and glue it. Bend down the overlapping part according to the shape of bridge and glue it on the edge. The orientation of part is like this the volubility on the bottom part must direkt inside bridge (on the other side where the pins are not).Stick part 7 on part 6, overlay the second side of part 1 by the overlapping ends. Put down the vertical reinforcements to the locks and glue 4x part 5. This set is twice. Set the both set of side construction of the bridge. Complete the crossbeams of rail track deck from parts 8 and 9 according to the **Fig.1**.

You need 11 pieces (one is in addition). Bend down part 10 (two pieces) in the modele into the shape L so that the engrave cutting is closed by the bend inside. The bend must be 90°. Paste the built-up crossbeams (8-9) in the part 10 according Fig.2. You can help with the angle bar. When you complete the first side, subsequently make the second side and stick up by the glue.

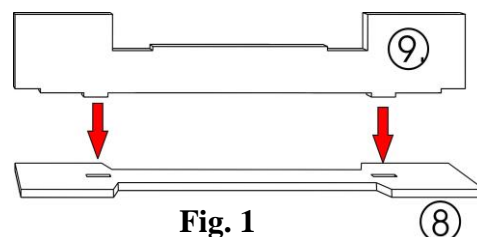


Fig. 1

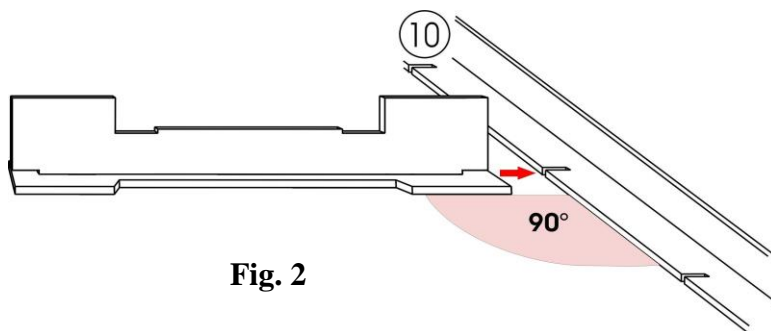
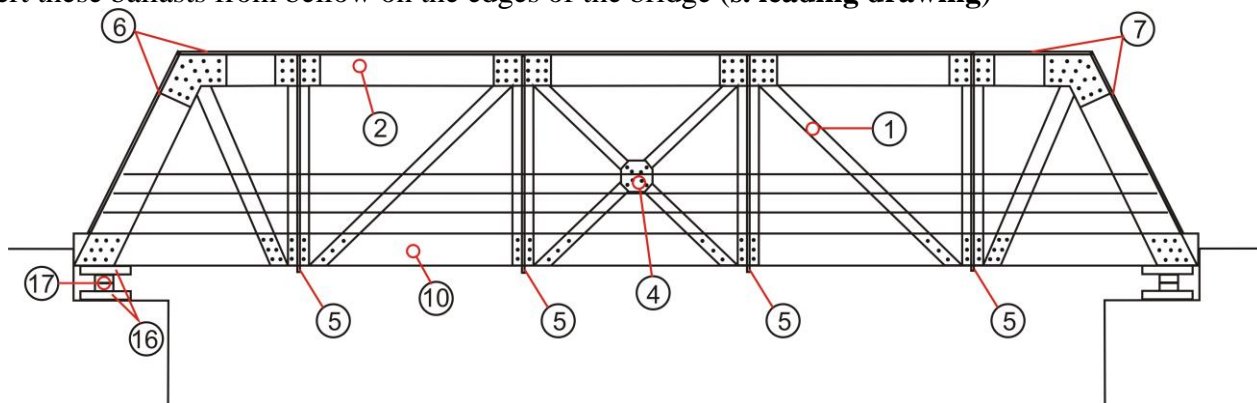


Fig. 2

Glue the lengthwise strips 2x (12) like tracked seam from above into the place for the lodgement of track. Now set the sides of bridge with the bridge deck – insert the side plates from parts 6 and 7 between outer crossbeams (8-9) and glue all consequential parts of the side plates from the side to the bridge deck. Check the verticality of the both side plates. Now produce the banisters from wire 0.5mm (for H0) or 0.3mm (for TT) so that you pull it through the wholes in vertical reinforcements of the side plate and bend down at the end to the wholes (which you rough-drill). The model is set up for the painting or spray according to your specific design. Insert the bridge on the pillars and glue it after the painting. Glue the coloured metal plates 2x (13) forward on the runboards. Place the foundation reinforcement 14 in the middle of tracks. The engrave edges inclose the pad on the centre. Stick part 15 on it. Beware of the correct centering. Complete the ballasts of the bridge from parts 2x 16 and 2x 17 – glue parts 2x 17 together and stick part 16 upon it. It create the profile in the side of laying H. Insert these ballasts from bellow on the edges of the bridge (s. **leading drawing**)

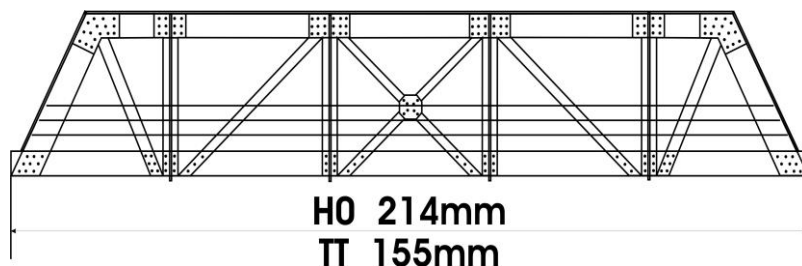


Paint also the banister and covering sheet-metal stock according to your observation and consideration.

The construction's instruction is only orientational which more so describes the individual construction steps of the building, not a concrete modeller's technology. Each modeller has their own methods of working. It depends on the modeller how the final product will look like.

*You can buy the bridge pillars high 70mm (H0) or 51mm (TT) cat. number čísla **LAS 4400 TT** and **LAS 5400 H0**.*

Size of model:



Have fun with this project! If you have any questions or would like further models of buildings, please contact me (domecky.info@centrum.cz). Further models of railway buildings are offered on the website www.kb-model.eu. You can download this construction's instruction there, too.

Karel Barták