Erasmus Metro Station in Brussels
The metro station near Erasmus Hospital in the west of Brussels is the terminus for line 1B in the city’s rapid transit system. A lightweight steel structure with membrane roof and translucent side panels stretches the whole length of the 170-m long central platform.

The primary load-bearing frame is made up of T-shaped tubular steel columns. The tips of the cantilevered arms are connected horizontally with stainless-steel cables. A double-curved membrane roof of fire-resistant coated fibreglass fabric stretches over the arched upper chords and the edge cables. Inward-curving panels of stainless-steel mesh (grade EN 1.4404) form the façade, protecting the waiting passengers from the wind. By day the mesh affords a view of the surroundings, and at night people outside can see into the illuminated station – a factor which enhances the feeling of security for the station’s users.

The surface of the fibreglass membrane is resistant to graffiti and therefore very low-maintenance. For the station furniture – benches, information panels, etc. – stainless steel was preferred because it is a material that is robust, easy to clean and therefore cost-effective to maintain.
The façade panels are of stainless-steel mesh (grade EN 1.4404) with an open area of 27%.

At night the illuminated interior is easily visible from the outside.
Stainless steel caps over the membrane junctions promote ventilation of the spaces below.

The stainless-steel fixing points for the roof membrane and the tie rods are designed to take up temperature-related changes in length.

The station furniture, e.g. benches and information panels, is made of stainless steel.