The present document provides a production plant (10) for producing extruded sheets (36), with a conveying device (22) for conveying a semi-finished product (20), an edge-cutting device (24) for separating a rim region (28) of the semi-finished product (20), so that after the edge-cutting device (24) the semi-finished product (20) exists as a planar endless basic profile (30), and a portioning device (32) for separating individual sheets (36) from the endless basic profile (30), wherein a distance (D) between the portioning device (32) and the edge-cutting device (24) in the conveying direction is dimensioned in such a way that, between an average temperature T1 °F the semi-finished product (20) during separation of the rim region (28) in the edge-cutting device (24) and an average temperature T2 °F the endless basic profile (30) during portioning, there is a temperature difference T_1-T_2 where 2 K $\leq$ T_1-T_2 $\leq$ 15 K. By virtue of the purposely increased distance (D) within an optimal temperature range, further processing of the separated rim regions (28) can be provided with no significant change to the installation space, thus making it possible to produce panels in a cost-effective and compact manner while maintaining high dimensional stability.