

## عنوان مقاله:

Escalator Cladding (Enclosure) Design

## محل انتشار:

نهمین سمینار سراسری بین المللی آسانسور و پله برقی (سال: 1397)

تعداد صفحات اصل مقاله: 8

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## خلاصه مقاله:

All mechanically moving parts of the escalator or moving walk shall be completely enclosed within imperforate panels or walls. Exempt from this are the accessible steps, the accessible pallets, the accessible belt and that part of the handrail available for the user. A large number of escalator manufacturers use stainless steel sheets as a means of enclosure device. Stainless steel thickness and design plays a big role in cost of production. In this article various design with different thickness will be considered accordance Kirchhoff Love plate bending theory and FEM analysis with ABAQUS/CAE 2018. Allowable value and design measurements have been defined by BS EN 115-1:2017. Boundary condition for plate is assumed built in edge and governing equation derived by Ritz method which is called energy method.

## کلمات کلیدی:

Escalator, cladding, BS EN 115-1:2017, plate bending theory, built in edge plate, Ritz method

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/946150>

