

## Seismic Design Approach for Areas with Low Seismicity

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**Abstract :** The following article focuses on a new seismic design approach for Denmark. Denmark is located in a low seismic zone and up till now a general and very simplified approach has been used to accommodate the effect of seismic loading. The current used method is presented and it is found that the approach is on the unsafe side for many building types in Denmark. The damages during time due to earth quake is presented and a seismic map for Denmark is developed and presented. Furthermore, a new design approach is suggested and compared to the existing one. The new approach is relatively simple but captures the effect of seismic loading more realistic than the existing one. The new approach is believed to be incorporated in the Danish Deign Code for building structures.

**Keywords :** low seismicity, new design approach, earthquakes, Denmark

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