

ColBot – Readme

A full description can be found on our website: [Apps – AECforward.ai](#)

Questions? Comments? or want full detailed calculations?

Please email us at bots@AECforward.ai.

What is this about

ColBot is predicting the best structural steel column (UK market). The column of height L_y is loaded by an axial force N and some bending moments.

The best selected columns have different grades S355, S460 and different steel making processes BOF (basic oxygene furnace) or EAF (Electric Arc Furnace).

The option weight_S355 corresponds to a baseline basic design using S355.

The carbon option considers the embodied carbon for the production stages A1-A3.

Disclaimer

AECforward.ai own all intellectual property rights to the apps, API, components associated with ColBot.

This design has been generated automatically using a machine learning process and hence is approximate.

Steel raw material varies and depends on market conditions. Cost estimates are provided for information only and are based on average user's input or specific inputs.

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