Building carbon footprint comparison between building permit and as-built with circular material usage Kertsmik, Kadri-Ann; Talvik, Martin; Lylykangas, Kimmo Sakari; Ilomets, Simo; Kalamees, Targo ICEARC'23: The 3rd International Civil Engineering & Architecture Conference, Trabzon, Türkiye, 12-14 October 2023: Proceedings; Vol. 2: Architecture 2023 / p. 392-399 https://icearc2023.glpmanager.com/documents/ICEARC'23_Proceedings_Architecture.pdf