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PROJECT DESCRIPTION | Deconstruction and Refabrication for the Reuse of Steel Buildings

ACRONYM | DreamFAB

PROJECT IDENTIFICATION | 101111547

PROGRAM | RFCS2022

PARTICIPATING ORGANIZATIONS | Häme University of Applied Sciences (Coordinator); University of Coimbra; Polytechnic University of Timisoara; FERPINTA Group; ROBOPLAN; Wurth Oy; Jupa S.A.; SSAB Europe Oy; STAR Institute.

START DATE | 01/09/2023

END DATE | 31/08/2027

TOTAL VALUE | 2 448 259€

FUNDING | 1 468 995€

PROJECT OVERVIEW

DreamFAB project will develop and validate the technical rules and re-fabrication guidelines for the structural safety of reuse and re-fabrication of steel buildings, develop the innovative demountable solutions for composite beams and roof trusses using Rectangular Hollow Sections, and develop the solutions for robot-assisted deconstruction. The essential technical rules and solutions will be developed so that the steel elements of buildings can be conveniently re-fabricated and reused without the need of energy-intensive recycling processes. In particular, the project aims to overcome the most critical technical barriers which prevent the reuse of steel constructions.