

Teacher's guide: Design for Disassembly

Theme

- Design for Disassembly

Recommended Duration

- 45 min



Introduction

The apprentice is introduced to the design for disassembly with bricks. Various examples of brick constructions are presented, illustrating the significance of good and poor combinations of brick and mortar products on recyclability.

Overall, the examples should give the apprentice an introduction to the topic in relation to their profession and an understanding of what makes a brick construction separable and reusable in the long run.

An accompanying task has been prepared, allowing the apprentice to practice combining bricks and mortars. The purpose of the exercise is to enhance the apprentice's experience in combining brick and mortar products.

Preparation

- The teacher should guide the apprentice to read, observe, and interpret the content on the website.
- The teacher should assist the apprentice in interpreting the content on the website as needed.
- The teacher should help the apprentice answer the task to the necessary extent. For the task, the teacher should be prepared with national recommendations for mortars that can be used in each exposure class.
- The teacher should facilitate summarization and reflection.

Learning Objectives

- The apprentice can outline the advantages of building according to the principle 'Designed for Disassembly'.
- The apprentice can outline parameters that make materials suitable for incorporation into structures designed for disassembly.
- The apprentice can explain the significance of combinations of brick and mortar products for the recyclability of brick products.

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- The apprentice can determine whether combinations of brick and mortar products are suitable for later breakdown and reuse.
- The apprentice can execute and combine brick and mortar products in a way that provides good conditions for later breakdown and reuse.

Content and Purpose

In the material, the apprentice works on understanding the properties of brick and mortar products and how these should be combined to maximize the possibility of reusing brick products.

Proposed Teaching Plan

Teacher's Presentation (2 min.)

- Presentation of the learning element

Individual Work (33 min.)

- The apprentice reads text on the website about design for disassembly and about combining products based on the right knowledge.
- The apprentice gathers information about combinations of brick and mortar and its significance for reuse.

Plenary Summary (10 min.)

- The teacher facilitates a summary of the apprentices' answers to the task.

Differentiation

For the challenged apprentice, the teacher finds some recommendations for mortars with accompanying data sheets documenting the functionality of the mortars concerning exposure classes.

The proficient apprentice can use the internet to search for mortars and accompanying data sheets.

Feedback and Evaluation

The teacher provides feedback during the process and during the summary of the task.

