

# Algorithm to create slit plans.

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**Algorithm 1:** Pseudo-algorithm to create a slit plan.

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**Input:** Design Request

**Output:** Slit Plan and Updated Stock

- 1 Check the stock of slit coils in case a request could be fulfilled with an existing offcut
  - 2 List and save request that can be fulfilled with an offcut along with the offcut references.
  - 3 List requests that cannot be fulfilled with offcuts.
  - 4 **for** *each grade in all the grade of material available* **do**
  - 5     **if** *there is demand for this grade* **then**
  - 6         Minimize the number of new mother coils to be used with:
  - 7         - Cutting patterns using the entire coil.
  - 8         - Cutting patterns generating offcuts of standard width to be stocked.
  - 9     Return slit plan for this grade
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