# SSAB Infrastructure products



# Tools for Designers



#### RRPILECALC

RRPileCalc is a design program for SSAB steel piles. Eurocodes as well as National codes and instructions are applied in the end-bearing pile design.

## All SSAB steel pile sizes

All RR, RRs, RD and RDs pile sizes (RR75...RR/RD1200) are available as steel pipe piles, concrete filled steel piles, reinforced composite piles or steel core piles.

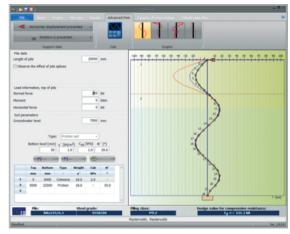
# One program for pile design according to Finnish, Swedish or Norwegian codes

RRPileCalc calculates the pile resistance according to Finnish, Swedish or Norwegian National piling codes.

#### Advanced FEM

Advanced FEM routine provides more accurate method to determine the second order bearing capacity and displacements of a single pile using variable soil conditions and arbitrary load combinations. In addition to vertical load also moment and lateral loading can be applied. Also the pile support at the pile head and toe can be altered freely.







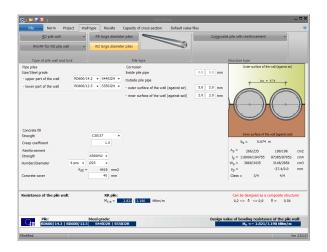
## **Novapoint GeoCalc**

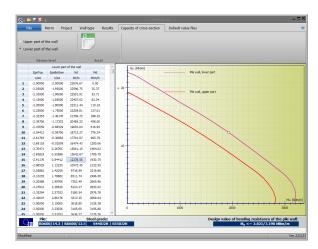
Retaining wall library contains all the applicable RD pile wall sizes and cross-section parameters.



#### Tekla Structures

Ready-made components for SSAB micropiles, large diameter piles and RD pile wall.





### **PILEWALLCALC**

PileWallCalc is a design program used to calculate the design resistances of retaining walls. RD pile walls, Combi walls and Zig-zag combi walls are included in the program.

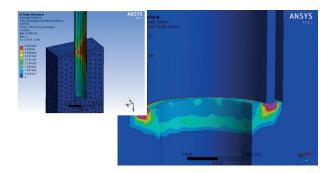
#### Available steel pile sizes

RD pile sizes RD220...RD1200 are available for RD pile wall. Large diameter RR/RD pile sizes (RR/RD400...RR/RD1200) are available for Combi walls and zig-zag Combi walls.

All piles are available as steel pipe piles, concrete filled steel piles, reinforced composite piles or steel core piles.

#### **Eurocodes and National Annexes**

The calculations are done according to Eurocodes and National Annexes. At the moment the National Annexes of Finland, Sweden and Norway are included in the program.



#### **DEMANDING FEM -ANALYSIS**

In special cases the staff of SSAB infra technical support can analyze structures and solutions by applying the 3D FE analysis.

- Behaviour of piles, interaction between pile and soil as well as pile and foundation interaction
- Stability and resistances of piles, foundations and adjoining structures
- Case specified solutions

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