

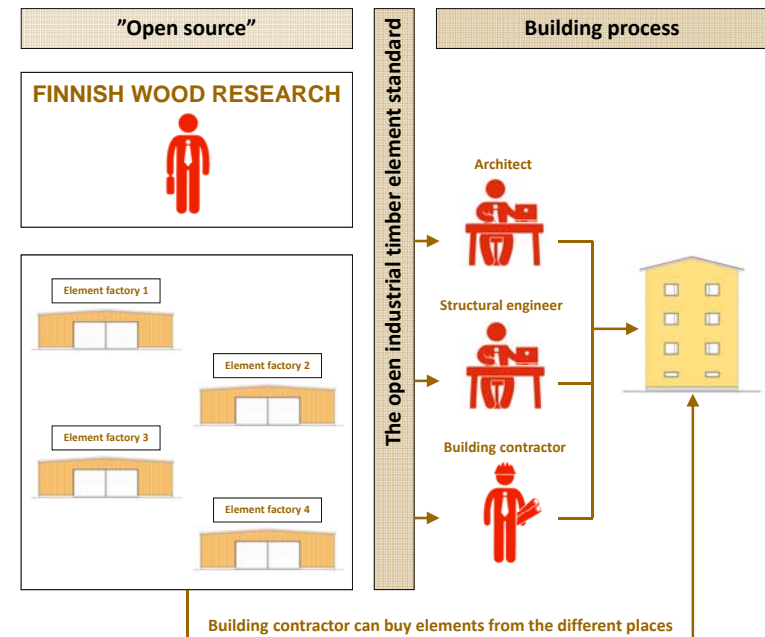
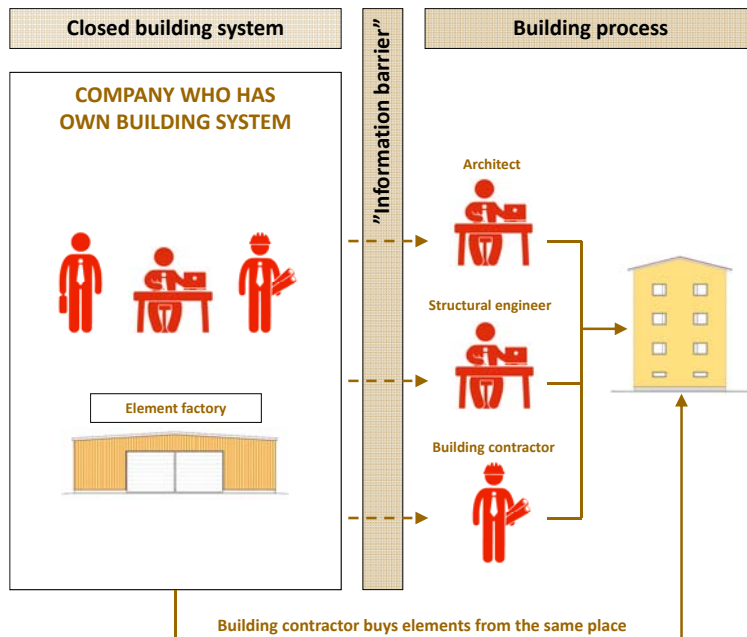
The open industrial timber element standard



Trondheim
24th September 2014
Tero Lahtela

What it is and what it is not?

- **Developed for multi storey timber buildings**
 - version 1.0 year 2012
 - version 2.0 year 2013
- **Actually it is not a building system**
- **It is more like design method, including different building systems**
 - flat elements
 - volumetric elements
 - column & beam – frame
- **Free information source ("cookbook")**
 - guideline for architects
 - guideline for structural engineers
 - guideline for element factories
 - guideline for building contractors



What kind of information is important?



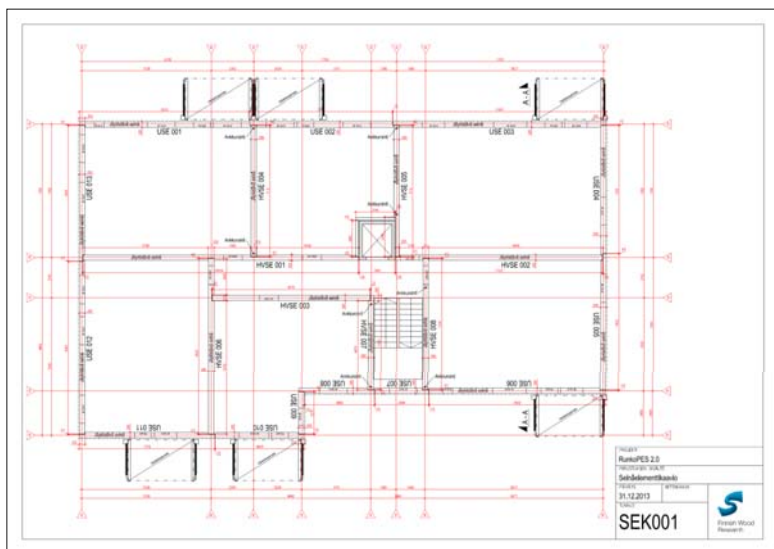
- **Architect have to know**
 - thickness of the structures
 - span of the floor
 - etc.
- **Structural engineer have to know**
 - how to transfer forces to the foundation
 - fire behaviour of the structures
 - sound behaviour of the structures
 - thermal behaviour of the structures
 - moisture behaviour of the structures
 - etc.
- **Building contractor have to know**
 - amount of the elements
 - content of the elements
 - connecting method of the elements
 - etc.



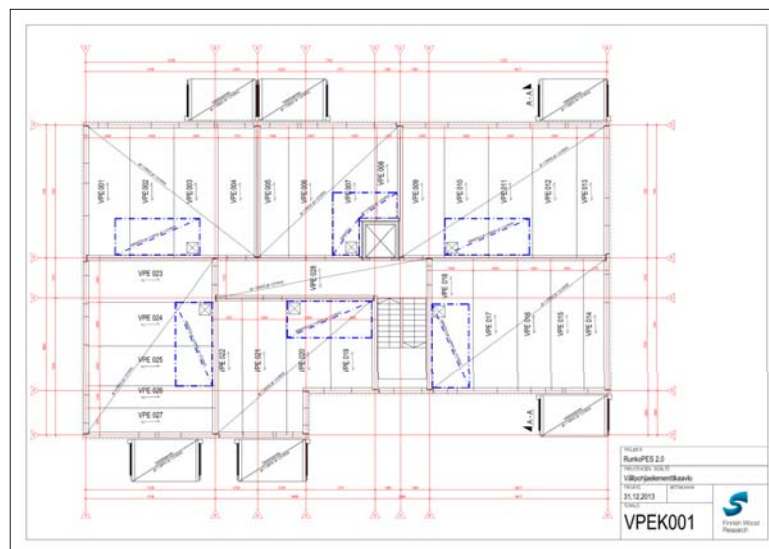
Architect makes a preplan



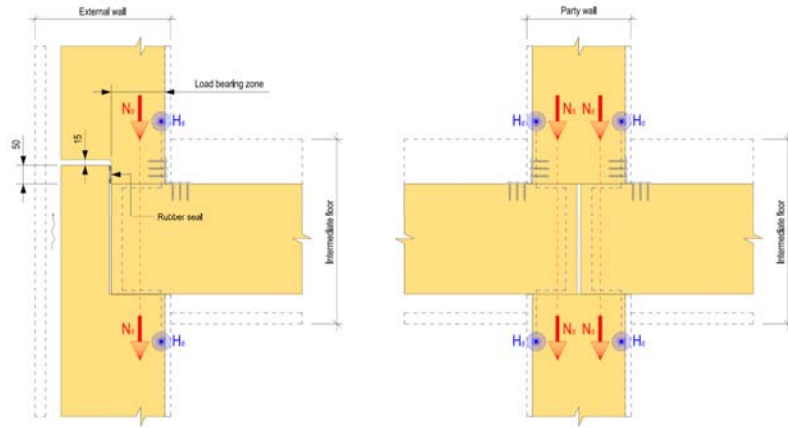
Structural engineer makes a preplan



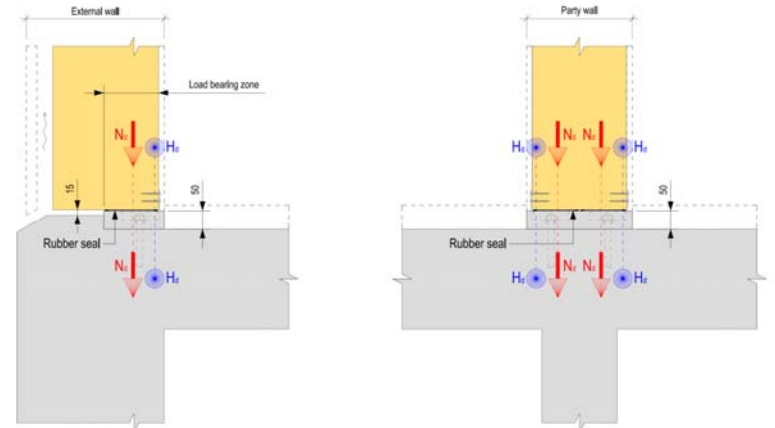
Structural engineer makes a preplan



Structural engineer transfers the forces



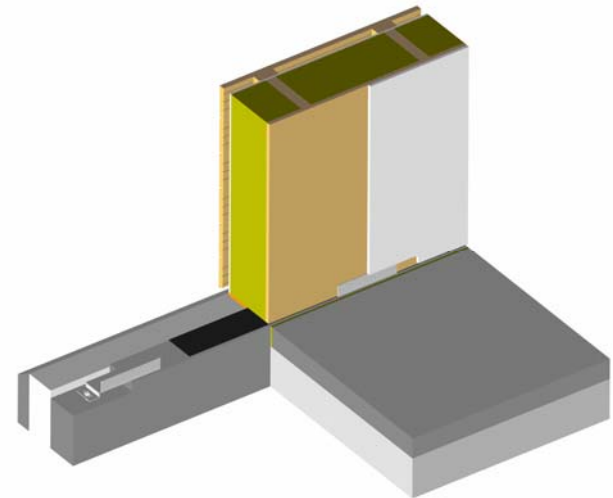
Structural engineer transfers the forces



Building contractor calculates the price

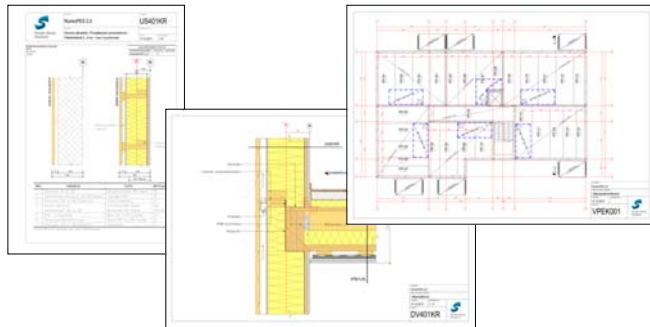


Everyone knows the structures

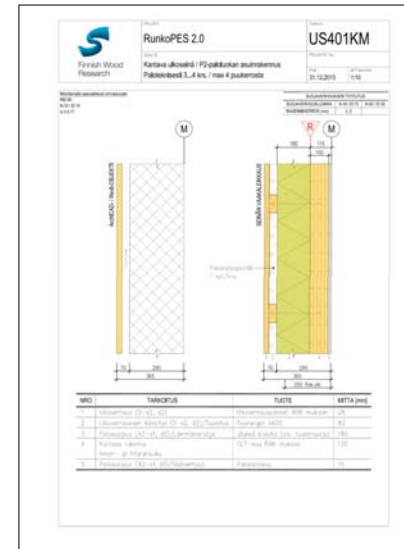
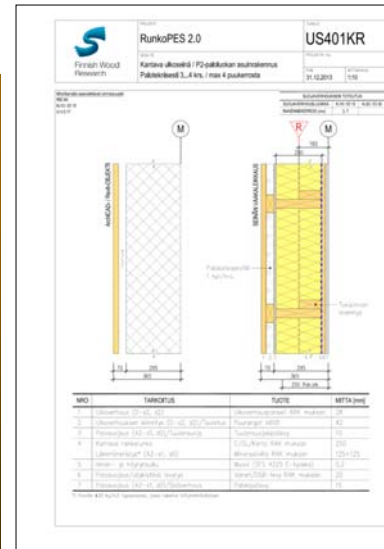


The open industrial timber element standard

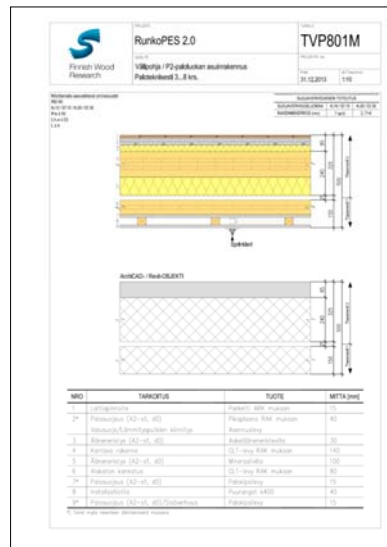
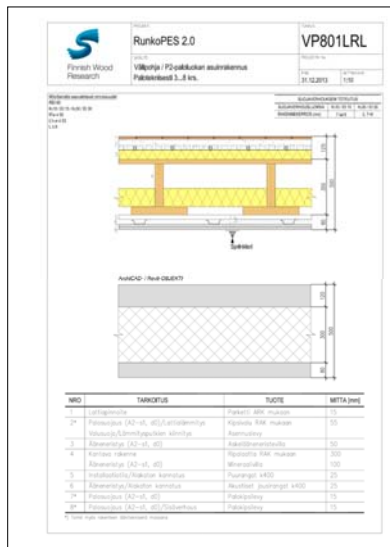
Content of the version 2.0



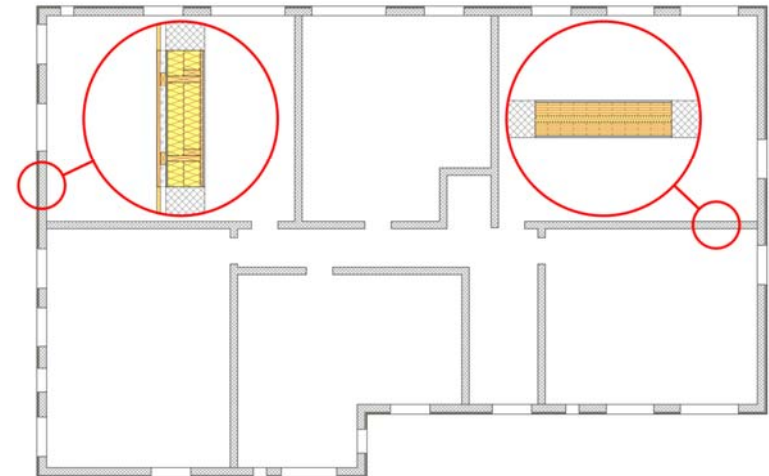
For architect



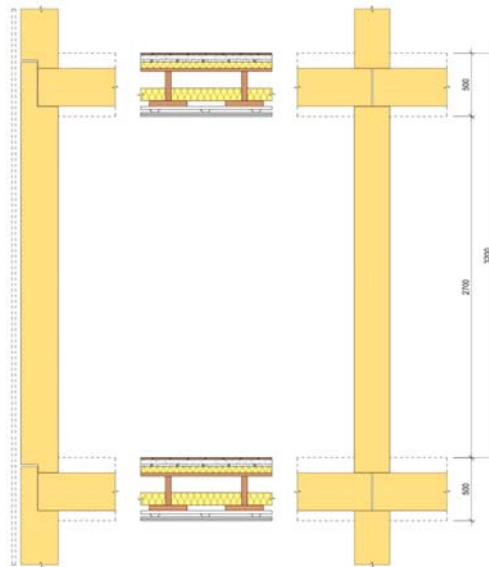
For architect



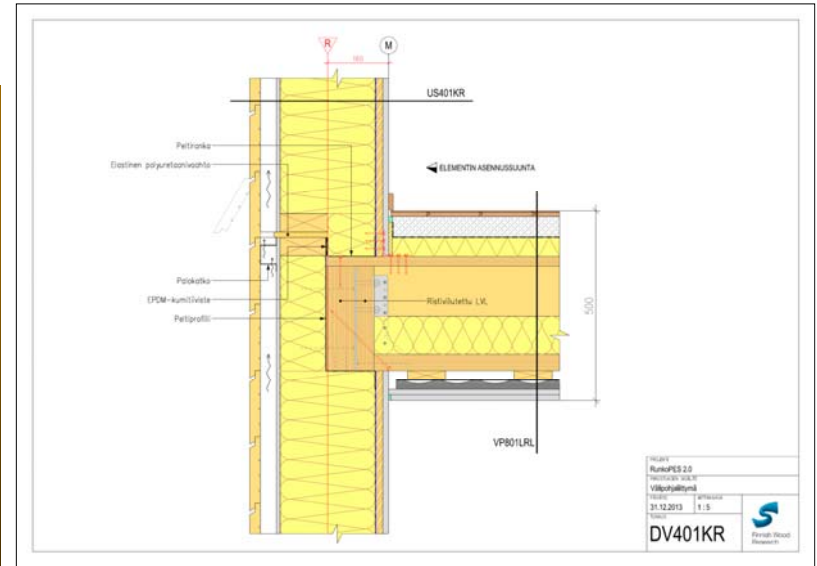
For architect



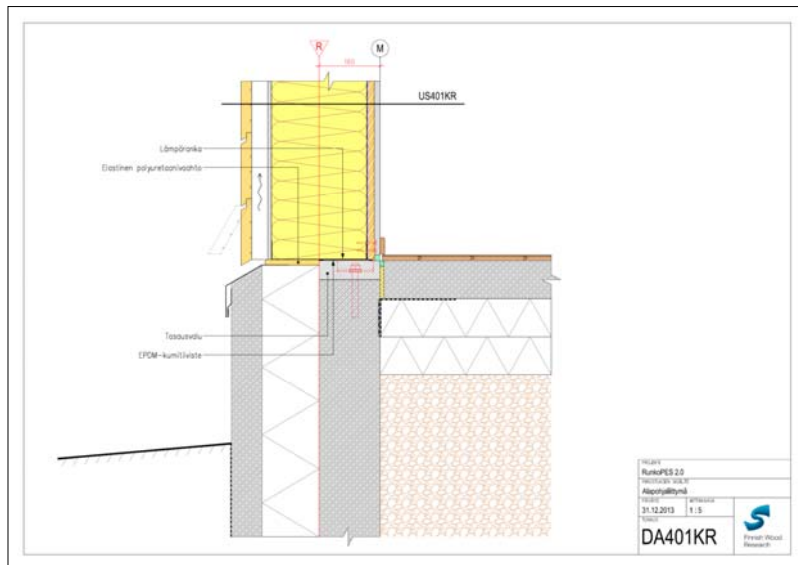
For architect



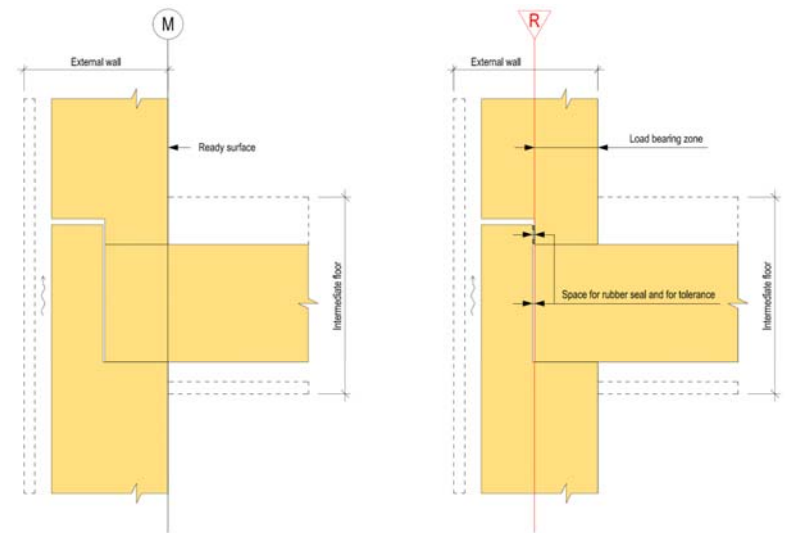
For structural engineer

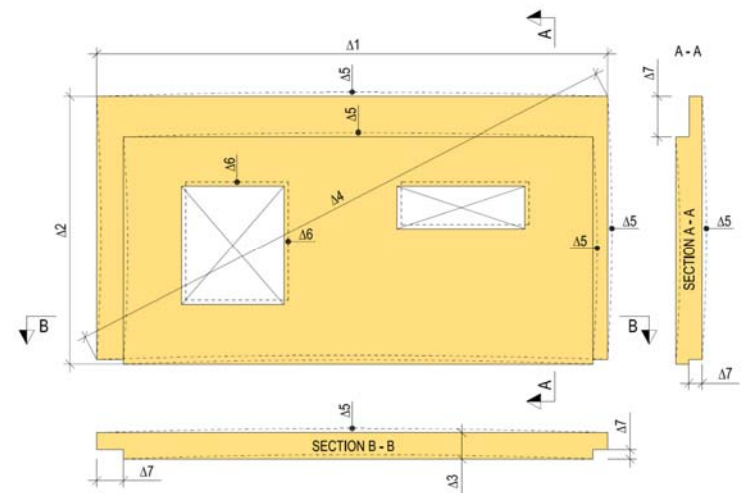
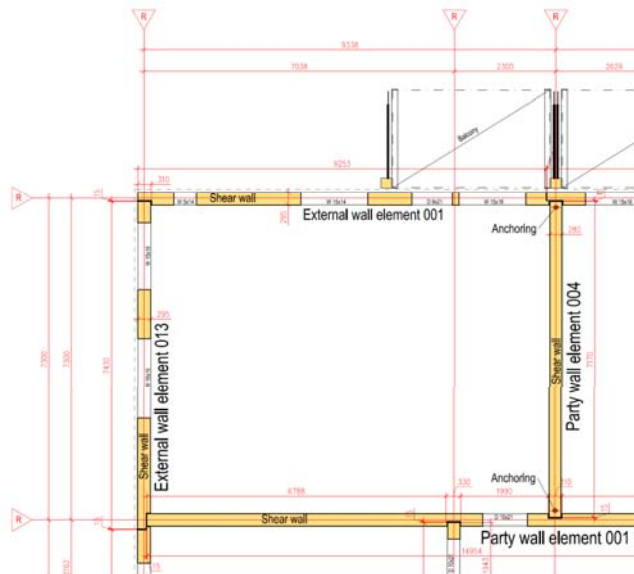
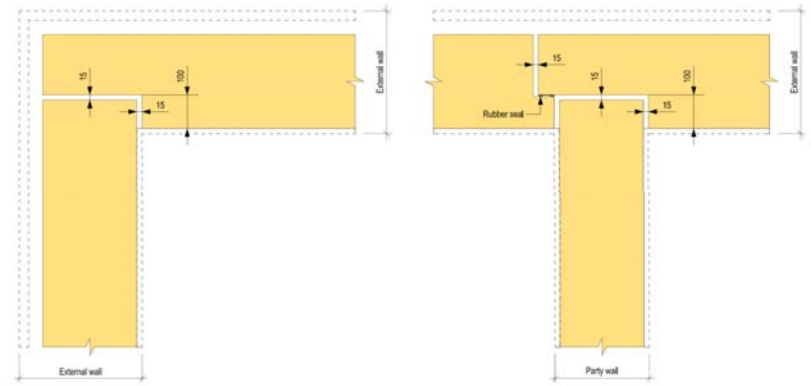
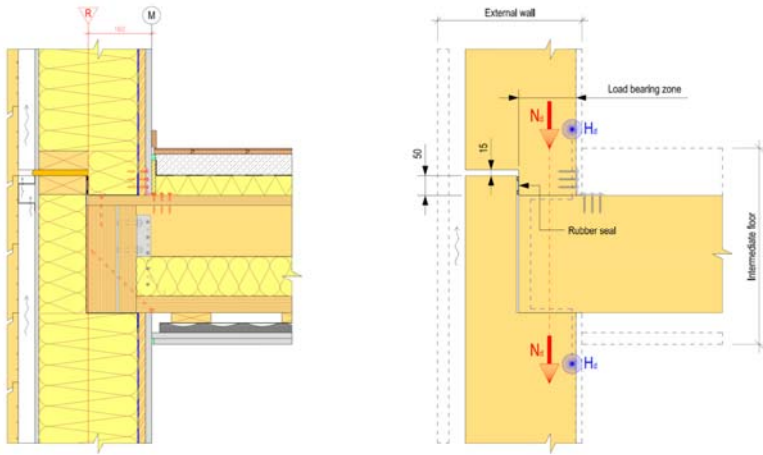


For structural engineer

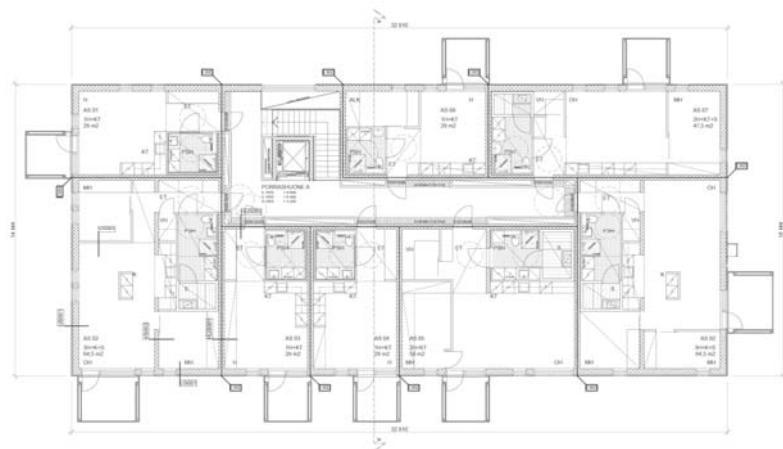


For structural engineer

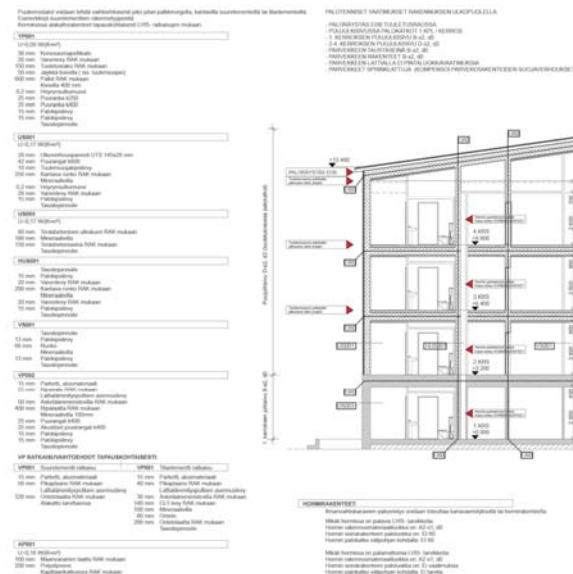




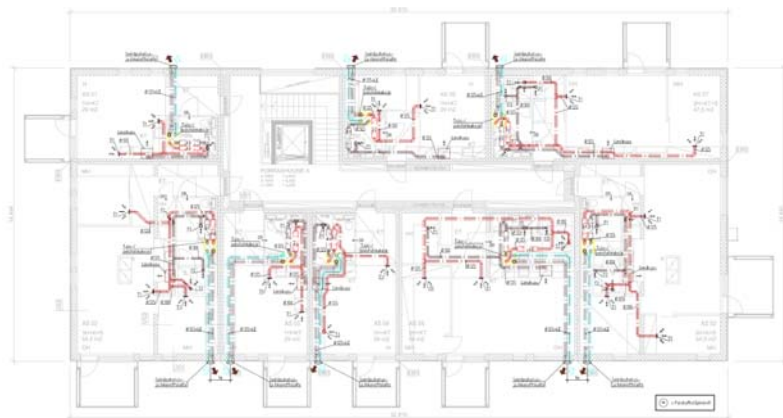
General information for all



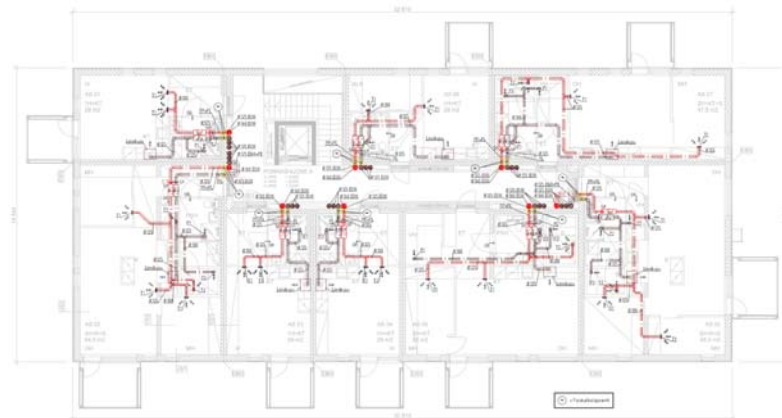
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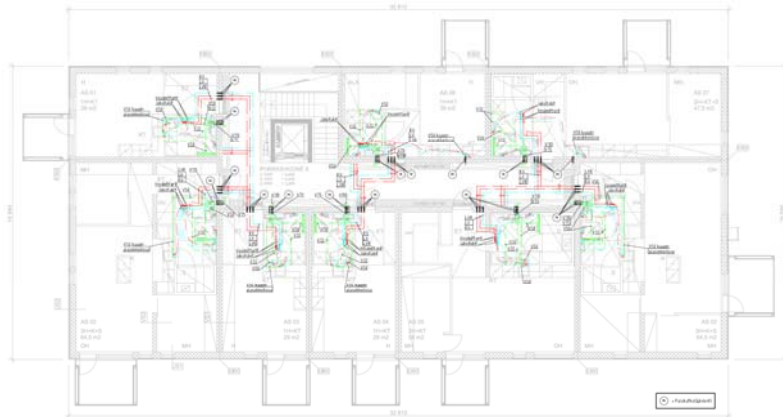
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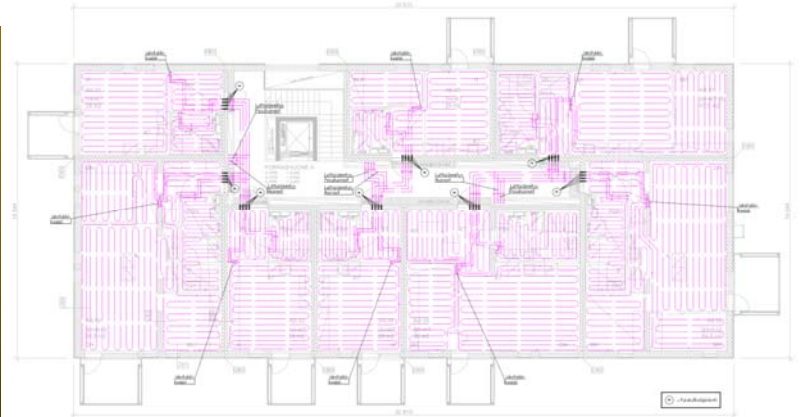
General information for all



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Thank you !

