Plantvare

P-Engineering can help you Develop Pipe Series for various Application in the following steps:

- Specifying the Actual Pipe Series
- Defining the range of Use for Each Series.
- Making Input for 3D BIM tool.

Pipe Series created based on Material and then Assembly Methods and Pressure Rating

- A Cast Iron
- C Carbon Steel
- D Duplex Steel
- N Cupper Based
- P Polymer
- R Stainless Steel (6Mo type)
- S Stainless Steel

For e.g., Series C, R and S with Welded Assembly all Tube Pieces, Tees, Olets etc. will be calculated according to EN13480 for Pressure Rating PN 10/16/25/40/63 & 100 except Series for Water, that will follow EN10312 directly. Others will follow Manufacturing Specifications like Press Systems. For all Pressure Testing Levels will be calculated.





| Rambø | ll Dann | nark A | /s | | Insu | | n Cla 04 (A | | neet | | | | |
|---------------------|---------|--|----------|----------|-----------|----------|----------------|--------|---|------------|--------|---------|------|
| Rating | | H04 - Class 4 Insulation | | | | | | | PRIMARY SERVICE | | | | |
| Material: | | Lamekrátte med armeret skutolie (Rockwool) | | | | | | | Hot Tap Water, Indoor | | | | |
| Fire Classification | | A1 - Not Combustible (acc. EN ISO 1182) | | | | | | | > Hot Tap Water Circulation, Indoor | | | | |
| Internal Surface: | | Stainless Steel 0,15 | | | | | | | > District Heating, Forward, Indoor | | | | |
| External Surface: | | Aluminum 0,05 | | | | | | | > District Heating, Return, Indoor | | | | |
| ipe Class | | C83, C | 93, 583 | , 893 | | | | | | | | | |
| lanoundin | g Temp. | 20°C;1 | ndoor (i | feated a | 4/ea) | | | | | | | | |
| Color Code | 12 | The Co | for Cod | ing refe | rs to the | e most o | ommon | lenper | oture se | t the file | rrecha | in ques | áon. |
| Nominal size | | 15 | 20 | 25 | 32 | -40 | 60 | 65 | 80 | 100 | 125 | 150 | 200 |
| Outer diameter | | 18,0 | 22,0 | 28,0 | 35,0 | 42,0 | 54,0 | 76,1 | 88.9 | 108,0 | | | |
| 30 | (mm) | 14,5 | 19,1 | 22,7 | 29 | 33,1 | 38,8 | 45,9 | 48,9 | 37,2 | | | |
| | (mm) | 20 | 20 | 30 | 30 | 40 | 40 | 60 | 60 | 60 | | | |
| | [W/m] | 1,7 | 1,9 | 1,8 | 2,1 | 2,0 | 2,4 | 2,6 | 2,9 | 3,0 | | | |
| 40 | (mm) | 17,6 | 21,8 | 27 | 32,1 | 36,5 | 41,8 | 50,2 | 53,2 | 55,7 | | | |
| | (mm) | 20 | 30 | 30 | 40 | 40 | 60 | 50 | 60 | 60 | | | |
| | [W/m] | 3,6 | 3,4 | 3,9 | 3,9 | 4,3 | 4,4 | 5,6 | 5,5 | 6,7 | | | |
| 50 | (mm) | 19,6 | 23,8 | 29,2 | 34,4 | 38,8 | 44,8 | 52,3 | 55,5 | 50,0 | | | |
| | (mm) | 20 | 30 | 30 | 40 | -43 | 50 | 90 | 60 | 60 | | | |
| | [M/m] | 5,6 | 5,3 | 6 | 6 | 6,6 | 6,8 | 7,6 | 8,4 | 9,6 | | | |
| 60 | (mm) | 21,1 | 25,6 | 31,2 | 36,6 | 41,1 | 47,3 | 65 | 58,2 | 61,7 | | | |
| | (mm) | 30 | 30 | 40 | 40 | 50 | 60 | 60 | 60 | 80 | | | |
| | [Wite] | 6,5 | 7,2 | 7,3 | 8,2 | 8,1 | 9,4 | 10,5 | 11,5 | 11,1 | | | |
| 70 | (mm) | 22,7 | 27,2 | 33,1 | 38,6 | 43,4 | 49,6 | 57,5 | 60,9 | 64,5 | | | |
| | (mm) | 30 | 30 | 40 | 40 | 60 | 60 | 60 | 80 | 80 | | | |
| | [Wite] | 8,4 | 9,3 | 9,3 | 10,5 | 10,4 | 12 | 13,4 | 12,6 | 16,2 | | | |
| 60 | (mm) | 24,5 | 29,2 | 35,2 | 41 | 45,0 | 52,3 | 60,4 | 63,7 | 67,4 | | | |
| | (mm) | 30 | 30 | 40 | 50 | 50 | 60 | 60 | 80 | 8) | | | |

Pictures from P-Engineering Training Course <u>TC-220</u> for Definition and Practical Use of Pipe Series.

P-Engineering uses <u>DXT</u> EN13480 Software for Detail Calculations of pipe items.

Contact Information:

Christian Pallesen; +45 2526 8805; cp@p-engineering.dk

Pipe Series De **Jesign:**