Vienna, 24th April 2018.

Calculation tools according to ES-TRIN

Main goals of the excel tool

➤ Simplified overview of the requirements for the inspection bodies use

➤ Easier completion of the inland navigation vessel certificate in the view of necessary calculation, especially for existing vessels

Remark: This is beta version under development!

Scope of the application of the excel tool

➢ Calculation covers:

➢ Chapter 3 Shipbuilding requirements

   - 3.02 Strength and stability – acceptance criteria for the minimum thickness of shell plating including bottom, bilge and side plating
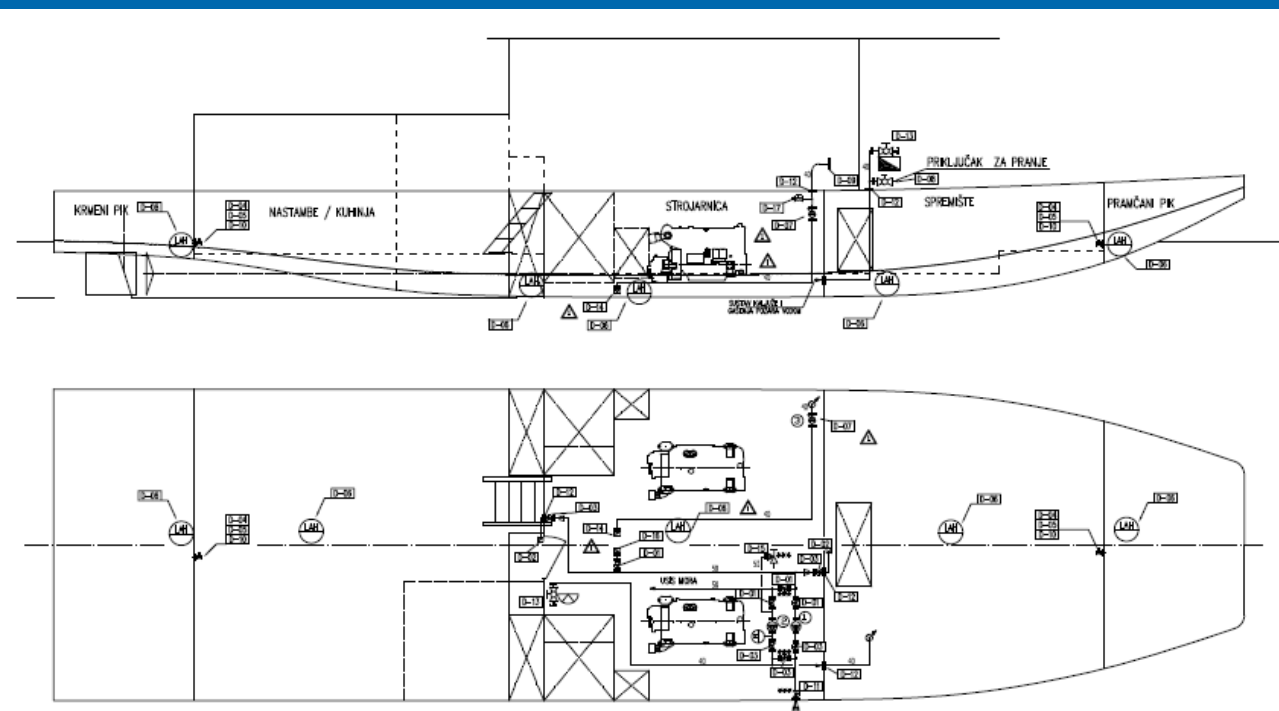
$$d_1 = 1{,}5 \cdot \sqrt{L\,(B + H)} + 25 \;[mm]$$

➤ **Calculation covers:**

➤ **Chapter 8 Engine design**

     - 8.08 Bilge pumping and drainage systems

$$Q_1 = 0{,}1 \cdot {d_1}^2 \;[l/min]$$

Scope of the application of the excel tool

➤ Calculation covers:

➤ Chapter 13 Equipment

    - 13.01 Anchor equipment

    - 13.02 Other equipment

$$k = c \sqrt{\frac{L}{8 \cdot B}}$$

$$P = k \cdot B \cdot T \ [kg]$$

Scope of the application of the excel tool

➤ Calculation covers:

➤ Chapter 19 Special provisions applicable to passenger vessels

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Thank you for your attention!