

# Cylshell DNV - Update information

## Version 1.8.5

- Screen adjustments for Win10 and 125 DPI
- Update Information available under help
- Program also available with database

## Version 1.8.2

- Results for Ringframe buckling (Moment of inertia) updated

## Version 1.8

- Program now also available in a database version
- Material prints correct fyk on screen depending on plate thickness (calculation correct)
- For column buckling, the program calculates shell buckling taking into account distance between ring frame

## Version 1.7

- Includes rule updates until July 2014
- Font on forms changed to Arial
- Flange eccentricity  $e_f$  corrected for L- and BF-profiles (from  $e_f = bf/2$  to  $e_f = bf/2 - tw/2$ ), ref eq 3.9.7
- $\eta$  (eq 3.9.11) now also taking eq 3.4.2 into consideration

## Version 1.6

- Including updates to April 2011
- Allowable usage factor for WSD – ring stiffener is set to  $\eta_0$
- Direct link to homepage/E-mail from About form
- Download program from homepage

## Version 1.5

- Including global buckling

## Version 1.3

**StruProg**

www.struprog.se

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- Including amendments and corrections of the rules until nov 2009
- Bulb flat database now includes 50 profiles

## Version 1.2

- Vista compatible
- Min thickness for all profiles is now 0.1mm
- Including amendments and corrections of the rules until dec 2008
- Input from open files now printed on screen.

## Version 1.1

- In Project and Identification textstrings, all signs are now possible to have when saving and then opening the file.
- Error of input of flatbar thickness corrected
- Ih can now also be calculated with refined method according to ch 3.5.2.7 in DNV RP C202.
- Ih for heavy ringframes can also be calculated
- HP profile is renamed to BF (Bulb flats), ref EN 10067
- For BF profile, the profile is converted to a L-profile with a flangewidth of  $B - 0.45r$ . (earlier  $B - 0.5r$ ).
- In Project and Identification textstrings, quotation marks ” ” are now possible to have when saving and then opening the file. Earlier when opening a file including “ “ in the textstrings, the program reported runtime error.
- Lateral Pressure is now printed with 3 decimal places