

## #1431: HyperLife – Weld Certification

**Product:** HyperLife

**Product Version:** HyperLife 2020.0 or above

### Topic Objective

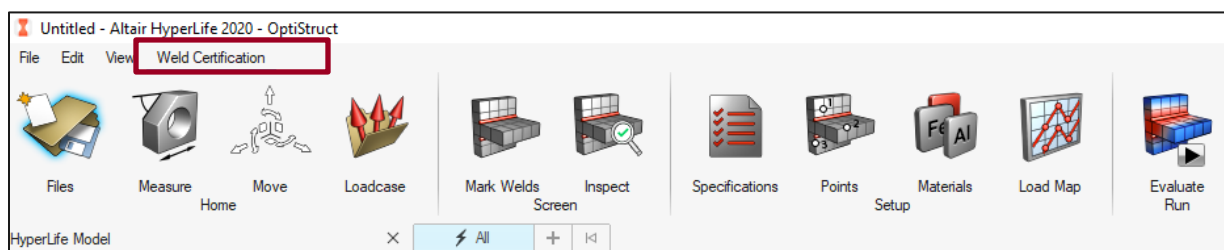
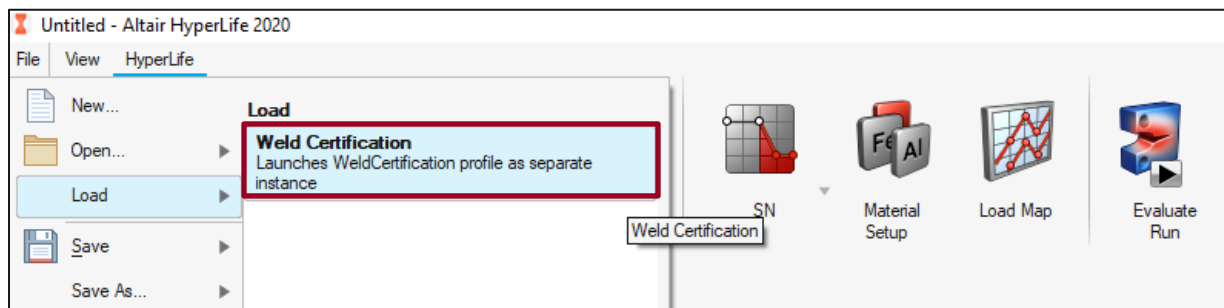
Weld Certification in HyperLife.

### Topic Details

**HyperLife Weld Certification** is a specialty module for fatigue strength assessments according to common design codes/norms and guidelines welded structures.

Design processes in rail, construction industries, and some machinery sectors rely heavily on design norms such as FKM, DVS-1612, and Eurocode-3. This HyperLife module provides an easy to use environment for CAE-driven fatigue and strength evaluation based on these popular design codes. The assessment procedures are based on nominal or local elastic stresses from Finite Element analysis.

First open the standard **HyperLife**, then go to **File > Load > Weld Certification** to launch the application.



### Supported Norm

DVS 1612

- Evaluation of Welds

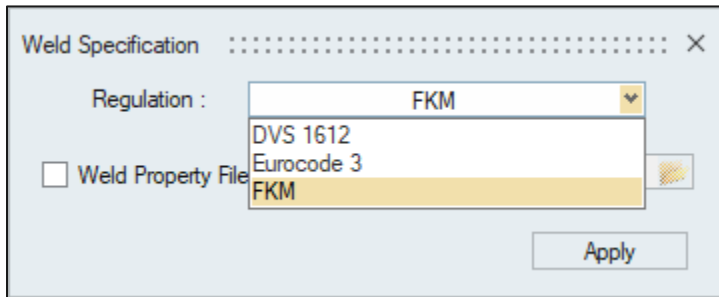
EuroCode 3

- Evaluation of Welds
- Evaluation of Unwelded (Steel)

FKM

- Evaluation of Welds

- Evaluation of Unwelded (Steel)



Currently, OptiStruct (FEM), Nastran (DAT), and HyperMesh binary (HM) are supported as input model files. Supported FEA result files are OptiStruct (H3D) and Nastran (OP2) formats.

## HyperLife Weld Certification Process

