

ENGINEERING STANDARDS

Here you can find a list of all implemented engineering standards and safety codes in SDC Verifier that you can use out of the box to check your structure directly in your FEA software. Currently supported Ansys Mechanical, Femap and Simcenter 3D.



AISC 360-10



Eurocode 3



DNV GL



ISO 19902



F.E.M. 1.001



ABS 2004 & ABS 2014



API RP



Norsok N004



DIN 15018



EN 13001



ASME



FKM



AIJ



AS

The following standards are implemented in SDC Verifier 2022:

- ABS Plate Buckling (2004 and 2014 editions)
- AIJ-2017 (2005 Edition) (Design Standard for Steel Structures. Based on Allowable Stress Concept)
- AISC ASD 1989 Members (9th, 1989)
- AISC 360-10 Members (14th, 2010)
- AISC 360-10 Bolts (14th, 2010)
- API RP 2A-LRFD (1st, 1993)
- API RP 2A-WSD (21st, 2007)
- AS 3990 (1993) (Mechanical equipment—Steelwork)
- ASME B31.8-2018 (Gas Transmission and Distribution Piping Systems)
- ASME VIII (Div2, 2010) (Boiler and Pressure Vessel Code)
- DIN 15018 (1984) (Cranes. Steel structures. Verification and analyses)
- DIN DVS 1608 (June 2010) and DIN DVS 1612 (August 2014)
- DNV-RP-C203 Fatigue (2016)
- DNV CN30 Plate Buckling (1995)
- DNV RP-C201 Plate/Stiffener Buckling (2010)
- DNV OS-C101-LRFD Weld Strength (2011)
- DNV OS-C201-WSD Weld Strength (2011)
- EN 13001 (2018) (Crane safety – General design)
- Eurocode 3. Design of steel structures. Members (EN1993-1-1, 2005)
- Eurocode 3. Design of steel structures. Weld Strength (EN1993-1-8, 2005)
- Eurocode 3. Design of steel structures. Fatigue (EN 1993-1-9, 2005)
- Eurocode 3. Design of steel structures. Plate Buckling (EN 1993-1-5, 2006)
- Eurocode 3. Design of steel structures. Connections (EN 1993-1-8, 2005)
- Eurocode 3. Design of steel structures. Fire Design (EN 1993-1-2, 2005)
- FEM 1.001 (3rd, 1998) (Rules For The Design of Hoisting Appliances)
- FKM Analytical strength assessment (5th revised edition, 2003 and 6th edition, 2012)
- ISO 19902 (1st, 2007) (Petroleum and natural gas industries — Fixed steel offshore structures)
- Norsok N004 (rev.3, 2013)