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DNVGL-RP-F109 On-  
bottom stability design  
of submarine pipelines  
Recommended  
practice The main  
objective of this  
recommended practice  
(RP) is to provide  
rational design criteria

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and guidance for assessment of pipeline on-bottom stability subjected to wave and current loading.

## **DNVGL-RP-F109 On-bottom stability design of submarine**

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DNV-RP-F109 On-Bottom Stability Design of Submarine Pipelines  
OCTOBER 2010 This document has been amended since the main revision (October

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2010), most recently in  
November 2011. And

**DNV-RP-F109: On-  
Bottom Stability  
Design of Submarine  
Pipelines**

DNV-RP-F109 October  
1, 2007 ON-BOTTOM  
STABILITY DESIGN OF  
SUBMARINE PIPELINES

Objective The main  
objective of this  
document is to provide  
rational design criteria  
and guidance for  
assessment of pipeline

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bottom stability  
design of submarine**

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recommended practice  
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2007 Since issued in  
print (October 2007),  
this booklet has been  
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April 2009.

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The recommended  
guideline DNV RP F109,  
“On-bottom stability of  
assessment of  
submarine pipelines”  
and American Gas  
Association/Pipeline  
Research Council  
International  
(AGA/PRCI) stability...

**Insight into Pipeline  
On-bottom Stability,**

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**DNV RP F109 and ...**  
dnv-rp-f109, 2010 And

edition, october 2010 -  
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pipelines There is no  
abstract currently  
available for this  
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DESIGN OF  
SUBMARINE ...**

The design of submarine pipelines against excessive displacements due to hydrodynamic loads (DNV-RP-F109) is defined as a Serviceability Limit State (SLS) with the target safety levels as given in DNV- OS-F101 (2013). In this paper, uncertainties associated with the on-

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bottom stability design  
of submarine pipelines  
are investigated.

**On-Bottom Stability  
Design of Submarine  
Pipelines - A ...**

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This document has  
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(RP) in the DNV GL  
portfolio: DNVGL-RP-F  
All DNV GL service. The  
recommended. ...  
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DNV RP F and DNVGL RP -  
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ru7th.info**

Calculate DNVGL-RP-F109 pipeline lateral and vertical stability. Static or absolute stability can be calculated for clay seabed, sandy seabed ( $D_{50} \leq 50$  mm), or rocky seabed ( $D_{50} > 50$  mm). The single oscillation velocity

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corresponds to the  
maximum wave  
velocity in the return  
period. Maximum  
current velocity data  
should be used.

## **DNVGL-RP-F109 Calculator - Pipeng Toolbox**

The StableLines  
software module is for  
engineering analysis of  
pipelines, based on  
DNV GL Recommended  
Practice DNVGL-RP-  
F109. What you get

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Bottom Stability  
with StableLines  
software VBA based  
program (Visual Basic  
for Applications) On-  
bottom stability  
analyses in full  
compliance with  
DNVGL-RP-F109

**Engineering analysis  
of pipelines |  
StableLines - DNV  
GL**

On-bottom stability  
analysis of offshore  
pipelines on soft clay  
by DNV-RP-F109 (DNV,  
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2010) results in very unreasonable pipe embedment and concrete coating thickness. Thus, a new procedure of the on-bottom stability analysis was established considering dynamic effects of pipeline installation and pipe-soil interaction at touchdown point (TDP).

**An optimum design  
of on-bottom**

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**stability of offshore**  
... Design Rules And

On-Bottom Stability  
(DNV-RP-F109 2010)  
The lateral stability  
criteria for a pipeline  
lying on the seabed or  
in a trench under  
hydrodynamic forces  
have to be satisfied.  
This is achieved by  
calculating the steel  
wall thickness or  
concrete weight  
coating required to  
keep the pipe lateral  
movement below a



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Penspen**

code-specified limit.

Assessment of pipeline on-bottom stability to DNV-RP-E305 and DNV-RP-F109 The scope. A major operator asked us to undertake a stability analysis of a 20" trunkline to ensure the pipeline was stable.

**Assessment of  
pipeline on-bottom  
stability to DNV-RP-**

# Read Book Dnv Rp F109 On Bottom Stability E305 ...

You should read the first sentence of the Introduction: "DNV-RP-F109 will replace the existing offshore design code, DNV-RP-E305 "On-Bottom Stability Design of Submarine Pipelines".  
NB this text was taken from the 2007 version.

## **differences between DNV RP E305 and DNV RP F109 - Off ...**

- Update of DNV-RP-

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F109 for calcareous soil  
and 3D non linear  
analysis - External MIC  
on onshore pipelines -  
FEA in fracture  
mechanics - Update of  
DNV-RP-F113 Pipeline  
repair - Revision of  
DNV GL recommended  
practice DNV-RP-F118  
for Qualification of NDT  
- Reeling of HFW/SAW  
pipes - Pipeline life  
extension

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