

# **Standard Template for Relevant Umbilical Installation Parameters**

## **UMF – GN07**

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## **1.0 PURPOSE**

The purpose of this document is to provide a list of information to be provided between umbilical manufacturer and installation contractor. The information will be provided at different stages throughout the project. The figure will be final when the document carrying the information is in IFC.

## **2.0 INTERFACE BETWEEN INSTALLATION CONTRACTOR AND UMBILICAL MANUFACTURER**

The information as defined in this document will normally be provided through the nominated interface body.

### 3.0 MECHANICAL PROPERTIES

#### 3.1 Dimensions and Weights

<u>Description</u>	<u>Unit</u>
Outer diameter incl. tolerances	mm
Weight in air (tubes empty)	N/m
Weight in air (tubes filled)	N/m
Weight in sea (tubes filled and interstices empty)	N/m
Weight in sea (tubes filled and interstices flooded)	N/m
Submerged Weight to Diameter Ratio	N/m <sup>2</sup>
Relative specific Weight	-

#### 3.2 Handling Limitations

<u>Description</u>	<u>Unit</u>
Maximum Tensile Load	kN
MBR vs Tension <sup>1</sup>	-
Maximum Crushing Load (Type pads)	
(2-track caterpillar, V shape $\alpha$ °)	kN/m/track
(4-track caterpillar, V shape $\alpha$ °)	kN/m/track
Internal friction factor	-
MBR of umbilical (elastic limit, load controlled) <sup>1</sup>	m
MBR of umbilical (storage)	m
Maximum handling temperature	°C
Minimum handling temperature	°C
Load/torque characteristics (Torsional balance)	-

*Note1:* To be within the provided capacity curve

#### 3.3 Stiffnesses

<u>Description</u>	<u>Unit</u>
Bend stiffness @ 20° C	kNm <sup>2</sup>
Torsional stiffness	kNm <sup>2</sup>
Axial stiffness	MN

### 4.0 ADDITIONAL INFORMATION PROVIDED

Manufacturing length and tolerance  
Length marking incl. marking for loose items  
Umbilical termination information (size and weight)  
Loose items information (size and weight)  
FAT results  
Installation fatigue, allowable number of cycles  
Load out condition of product (e.g. tube pressure)