

 König + Co. GmbH	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>				QTR. No.: Kö12560QTR
					Rev. No.:3
Manufacturer name/address/ Web page:	König + Co. GmbH, Obere Industriestraße 24 – 26, D-57250 Netphen www.koenig-co.de				
Reference standard	NORSOK M-650, Edition 4, September 2011				
Material designation and MDS No.:	ASTM A240 S32750/ASTM A815 S32750, NORSOK M-630 Ed. 6, MDS D53, Rev. 5				
Manufacturing summary doc. No.:	Kö-9MS				Rev. No.:2
Products and manufacturing process(es):	Heads made of plates, material: ASTM A240 S32750 without welding seams. <b>Forming Process:</b> Hot forming				
Mandatory conditions and sub-contractors:	Heat treatment after forming is necessary and will be carried out by own furnaces: Furnace No. 348 Manufacturer for starting material is Outokumpu, Industeel or other NORSOK qualified supplier Subcontractors: Zentrallabor Siegerland Braun & CO. and Ingenieurbüro Odenthal GbR				
Other information:	- Pickling will be done by own facilities - Heat treatment furnace Uniformity Survey done in 2018 - Verification of heat treatment procedure done in 2012. - The Heat Treatment Procedure PRO-5 - Tensile and Charpy impact tests might also be performed by König & Co. - The following testing will be carried out by sub-contracting: <ul style="list-style-type: none"> <li>• <b>Hardness test, micrographic examination and corrosion testing:</b>              Zentrallabor Siegerland Braun &amp; CO.              (Accreditation no.: D-PL-18993-01-00 and ISO / IEC 17025)</li> <li>• <b>Micrographic examination:</b>              Ingenieurbüro Odenthal GbR              (Accreditation no.: D-PL-18955-01-00 and ISO / IEC 17025)</li> </ul>				
Qualification expires:	10/2023				
<b>Tested and Qualified Thickness and Weight</b>					
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
Hot formed heads	12560	50 mm	50 mm	485 kg	N.A.
<b>Qualification/Acceptance signatures</b>					
<b>Manufacturer:</b>	Prepared by / Date:		Checked by / Date:		
	Haas / 09.10.2018		Haustein / 09.10.2018		
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials. This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.					
<b>Qualified/Accepted by</b> (company name/address):			Signature/Date: 16.10.2018		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>Materials Consult AS</b>            Petter Fjellheim            N-7058 Jakobsli, Trondheim            +47 97189397         </div>					