


 König + Co. GmbH	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>				QTR. No.: Kö12560QTR
					Rev. No.:1
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. 5, MDS D53, Rev. 4				
Manufacturing summary doc. No.:	Kö-9MS				Rev. No.:0
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 and Industeel				
Other information:	<ul style="list-style-type: none"> <li>- Pickling will be done by own facilities.</li> <li>- Uniformity surveys done in 2013.</li> <li>- Verification of heat treatment procedure done in 2012.</li> <li>- The Heat Treatment Procedure PRO-5 is a general procedure for several grades and is valid for both plants ( Netphen and Siegen).</li> <li>- The following testing will be carried out by sub contracting:             <ul style="list-style-type: none"> <li>• <b>Tensile test, impact test, hardness test and micrographic examination:</b>                Zentrallabor Siegerland Braun &amp; CO. ( Accreditation no.: DAP-PL-1026.00 )                Gewerbestraße 2                D-57258 Freudenberg</li> <li>• <b>Micrographic examination:</b>                Ingenieurbüro Odenthal GbR ( Accreditation no.: DAP-PL-3352.00 )                Zum alten Wasserwerk 6                D-51491 Overath- Immekeppel</li> </ul> </li> </ul>				
<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	All
<b>Qualification/Acceptance signatures</b>					
<b>Manufacturer:</b>	Prepared by / Date:  Calvo / 23.08.2013		Checked by / Date:  Haustein / 23.08.2013		
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): AIBEL AS / 7ENS RISORNSGT. 72 5504 HAUGESUND NORWAY			Signature/Date:  19/09-2013 QUALIFIED UNTIL 09/2018		