Kö	Qua		Test Record	d	TR. No.: 598083QTR
König + Co. GmbH	NORSOK M-650				ev. No.:2
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 S31254/ASTM A403 S31254, NORSOK M-630 Ed. 6, MDS R13, Rev. 5				
Manufacturing summary doc. No.:	Kö-5MS				ev. No.:2
Products and manufacturing process(es):	Heads made of plates, material: ASTM A240 S31254 without welding seams. Forming Process: Hot forming				
Mandatory conditions and sub- contractors:	Heat treatment after forming is necessary and will be carried out by own furnaces: Furnace No. 348 or No. 788 Manufacturer for starting material is Outokumpu, Plant Degerfors, Böhler Austria and other NORSOK M-650 qualified manufacturers.				
Other information: Qualification expires:	 Pickling will be done by own facilities. Furnace No.348: Temperature uniformity survey done in 2016 Furnace No.788: Temperature uniformity survey done in 2017 Furnace No.348: Verification of heat treatment procedure done in 2012. Furnace No.788: Verification of heat treatment procedure done in 2015. As the water quench tank at furnace No.348 is limited in size, the water temperature before any quenching operation begins shall not exceed 35 °C. Maximum weight for furnace No. 348 is 1.000 Kg As review shows that König has had continous production of actual material with satisfactory results the last 5 years. Qualifying Company accept that König can get a 5 years renewal of their NORSOK M-650 Ed. 4 qualification without any new mechanical testing August 2022 				
	Tostod and	Qualified Th	nickness and	Woight	
Products and manufacturing	Test record No.	Tested thickness	Qualified thickness	Test piece weight	Qualified weight
process(es): Hot formed heads	98083	(<i>mm</i>) 20 mm	25 mm	(kg) 47 kg	(kg) N.A.
	Qualifica	tion/Accep	tance signat	ures	
Manufacturer:	Prepared by/Date: Heupel/ 27.11.2017 Checked by/Date: Haustein/ 27.11.2017				
	r and this QTR are				quirements of
This acceptance does	ORSOK M-650 for a s not exempt any pu for his products wit	ırchaser from his	responsibility to er	nsure that this qu	ualification is valid
F		ame/address): S	Signature/Date:		17
	+47 07180307		10001		