


MRC Global

	Qualification Test Record NORSOK M-650 Edition 4	QTR. No.: WS-QTR-003
		Rev. No.: 09
Manufacturer name/address/ Web page:	Wilhelm Schulz GmbH, Kuhleshütte 111, 47809 Krefeld, Germany www.wschulz.com	
Reference standard	Norsok M-650 Edition 4	
Material designation and MDS No.:	ASTM A815/ UNS S31803 acc. to MDS D43 Rev. 6/ DH43 Rev. 1	
Manufacturing summary doc. No.:	MSWPS31803-W/WX, MSWPS31803-S P, MSWPS31803-S	Rev. No.: 14
Products and manufacturing process(es):	Cold formed seamless and welded fittings, WPS31803-S/ -W/ -WX, manufactured from pipes and plates, by Hydro Forming and Dye Forming	
Mandatory conditions and sub-contractors:	Heat treatment by Furnace No. 600 and Furnace No. 570 in house Heat treatment procedure verifications satisfactory carried out under witness of qualifying company	
Other information:	Mechanical and Metallurgical Testing and NDT by DEKRA Incos GmbH, D-47228 Duisburg TÜV Rheinland Werkstoffprüfung GmbH, D-13158 Berlin and D-44649 Herne Element Materials Technology Hamburg GmbH, D-21079 Hamburg MT Laboratories GmbH, D-40667 Meerbusch and D-47229 Duisburg GWQ GmbH & Co. KG, D-47441 Moers	
Qualification expires:	21. March 2028	

Tested and Qualified Thickness and Weight

Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
Elbow 90 DEG LR WP-S MSWPS31803-S Rev. 8	B2	168,3 x 4,5	60,0		
	B4	457,2 x 54,99			
Tee WP-S MSWPS31803-S Rev. 8	T2	168,3 x 4,5	60,0		
	T4	457,2 x 54,99			
Conc. Red WP-S MSWPS31803-S Rev. 8	R2	168,3 x 141,3 x 5,0	60,0		
	R4	457,2 x 406,4 x 54,99			
Tee WP-S MSWPS31803-S Rev. 12	T5	219,1 x 28,0	35,0		
Cap WP-S MSWPS31803-S P Rev. 8	K2	457,2 x 50,0	60,0		
Cap WP-S MSWPS31803-S P Rev. 12	K3	457,2 x 70,0	70,0		
Elbow 90 DEG LR WP-WX MSWPS31803-W/WX Rev. 8	BG4	323,9 x 5,0	60,0		
	BG6	457,2 x 50,0			
Tee WP-WX MSWPS31803-W/WX Rev. 8	TG4	323,9 x 5,0	60,0		
	TG6	457,2 x 50,0			
Conc. Red. WP-WX MSWPS31803-W/WX Rev. 8	RG4	323,9 x 273 x 5,0	60,0		
	RG7	457,2 x 406,4 x 50,0			
Tee Red. WP-WX MSWPS31803-W/WX Rev. 12	TG7	355,60 x 15,09/ 219,07 x 12,70	18,86		
Conc. Red. WP-WX MSWPS31803-W/WX Rev. 13	RG8	406,4 x 70,0/ 355,6 x 70,0	70,0		

For additional test reports see annexure 1

Qualification/acceptance signatures

Manufacturer:	Prepared by/Date: Heike Ballik, 07.11.2025 	Checked by/Date: Avgoustinos Evangelidis, 07.11.2025 
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MRC Global Norway AS
Gamle Forusveien 53
4033 STAVANGER

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Remarks/Special remarks:

Note: WSchulz and MRC agreed to performed new qualification tests within M630 Ed.7 in the range thickness that can be available in the most representative piece, a tee.
The rest of the QTR.s thickness range will be updated in the future and be presented to Equinor to update the test refence and thickness if necessary.

1. 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.
2. 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.
3. This qualification is executed and accepted by MRC Global as "Qualifying Company" solely for the supply of the above listed products to MRC Global as "Purchaser", and MRC Global assumes no llability for the use of or reliance on this qualification/ acceptance by other purchasers.
4. In accordance with MRC Global internal routines and procedures, the validity of the qualification/acceptance is 1 year from the initial signing of the QTR front sheet, after which the qualification/acceptance is subject to annual verification and renewal.

Qualified/Accepted by (company name/address):

MRC Global Norway AS
Gamle Forusveien 53
4033 STAVANGER

Initial approval date: 21.03.2023

Expiry date (annual renewal): 21.03.2027

Signature: Mika Buxhøkke

