
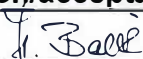



# MRC Global

	<b>Qualification Test Record</b> <b>NORSOK M-650 Edition 4</b>		QTR. No.: WS-QTR-002		
			Rev. No.: 07		
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 A 815/ UNS S32760 acc. to MDS D53 Rev. 6				
Manufacturing summary doc. No.:	MSWPS32760-S/ MSWPS32760-S P/ MSWPS32760-W/WX			Rev. No.: 10	
Products and manufacturing process(es):	Cold formed seamless and welded fittings, WPS32760-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 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 TPW Prüfzentrum GmbH, D-41460 Neuss MT Laboratories GmbH, D-40667 Meerbusch and D-47229 Duisburg Technotest – TÜV Austria, D-51371 Leverkusen				
<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)
El bow90 DEG LR WP-S MSWPS32760-S Rev. 6	S32760-B1	219,1 x 45,0	45,0		
Tee WP-S MSWPS32760-S Rev. 6	S32760-T1	219,1 x 60,0	60,0		
Conc. Red WP-S MSWPS32760-S Rev. 6	S32760-R1	219,1 x 60,0/ 168,3 x 40,0	60,0		
Cap WP-S MSWPS32760-S P Rev. 6	S32760-K1	406,4 x 60,0	60,0		
El bow90 DEG LR WP-WX MSWPS32760-W/-WX Rev. 6	S32760-BG1	406,4 x 60,0	60,0		
Tee Red. WP-WX MSWPS32760-W/-WX Rev. 6	S32760-TG1	406,4 x 60,0/ 355,6 x 60,0	60,0		
Conc. Red. WP-WX MSWPS32760-W/-WX Rev. 6	S32760-RG1	406,4 x 60,0/ 355,6 x 60,0	60,0		
El bow45 DEG LR WP-WX MSWPS32760-W/-WX Rev. 10	S32760-BG2	406,40 x 9,53	11,66		
For additional test reports see annexure 1					
<b>Qualification/acceptance signatures</b>					
Manufacturer:	Prepared by/Date: Heike Ballik, 13.03.2024			Checked by/Date: Haydn Hilling	



MRC Global Norway AS  
Gamle Forusveien 53  
4033 STAVANGER

# **MRC Global**

## **Remarks/Special remarks:**

Note: WSchulz and MRC agreed to perform new qualification tests within M630 Ed.7 in the range thickness that can be available. 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 liability 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):** 21.03.2025

**Signature:** *Mika Loxen*

*Berit Loxen*

<b>Tested and Qualified Thickness and Weight</b>					
<i>Products and manufacturing process(es):</i>	<i>Test record No.</i>	<i>Tested thickness (mm)</i>	<i>Qualified thickness (mm)</i>	<i>Test piece weight (kg)</i>	<i>Qualified weight (kg)</i>
Elbow 90 DEG LR WP-S	B2	6" x 3,4	27,5		
	B3	6" x 21,95			
Tee WP-S	T2	6" x 3,4	27,5		
	T3	6" x 21,95			
Conc. Red. WP-S	R2	6" x 4" 3,4	27,5		
	R3	6" x 4" 21,95			
Cap WP-S	K1	12" x 25,0	31,25		
Elbow 90 DEG LR WP-WX	BG4	4" Sch 40S	22,5		
	BG5	12" x 18,0			
Tee WP-WX	TG4	4" Sch 40S	22,5		
	TG5	12" x 18,0			
Conc. Red. WP-WX	RG4	4" x 3" Sch 40S	22,5		
	RG6	16" x 12" 18,0			