




MRC Global

	Qualification Test Record			QTR. No.: WS-QTR-001	
	NORSOK M-650 Edition 4			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 A 815/ UNS S32750 acc. to MDS D53 Rev. 6/ DH53 Rev. 1			
Manufacturing summary doc. No.:		MSWPS32750-S/ MSWPS32750-S P/ MSWPS32750-W/WX			Rev. No.: 12
Products and manufacturing process(es):		Cold formed seamless and welded fittings, WPS32750-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-, 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					
<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 MSWPS32750-S Rev. 6	S32750-B1	219,1 x 45,0	45,0		
Tee WP-S MSWPS32750-S Rev. 6	S32750-T1	219,1 x 60,0	60,0		
Conc. Red WP-S MSWPS32750-S Rev. 6	S32750-R1	219,1 x 60,0/ 168,3 x 40,0	60,0		
Tee WP-S MSWPS32750-S Rev. 10	S32750-T2	219,1 x 30,0	37,5		
Cap WP-S MSWPS32750-S P Rev. 6	S32750-K1	406,4 x 60,0	60,0		
Cap WP-S MSWPS32750-S P Rev. 10	S32750-K2	355,6 x 50,0	50,0		
Elbow 90 DEG LR WP-WX MSWPS32750-WI-WX Rev. 6	S32750-BG1	406,4 x 60,0	60,0		
Tee WP-WX MSWPS32750-WI-WX Rev. 6	S32750-TG1	406,4 x 60,0/ 355,6 x 60,0	60,0		
Conc. Red. WP-WX MSWPS32750-WI-WX Rev. 6	S32750- RG1	406,4 x 60,0/ 355,6 x 60,0	60,0		
Tee WP-WX MSWPS32750- W:WX Rev. 10	S32750-TG6	273,05 x 12,70	15,88		
Conc. Red WP-WX MSWPS32750-S Rev. 10	S32750- RG2	406,4 x 50,0/ 355,6 x 50,0	50,0		
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	

MRC Global Norway AS
Gamle Forusveien 53
4033 STAVANGER

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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 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 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):

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Gamle Forusveien 53
4033 STAVANGER


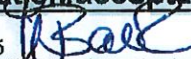

Initial approval date: 21.03.2023

Expiry date (annual renewal): 21.03.2027

Signature: *Mika Buzander*

Bruer Verket

MRC GlobalTM

	Qualification Test Record NORSOK M-650 Edition 4	QTR. No.: WS-QTR-002			
		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 A 815/ UNS S32760 acc. to MDS D53 Rev. 6/ DH53 Rev. 1				
Manufacturing summary doc. No.:	MSWPS32760-S/ MSWPS32760-S P/ MSWPS32760-W/WX	Rev. No.: 12			
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 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					
<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 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		
Tee WP-S MSWPS32760-S Rev. 10	S32760-T2	219,1 x 25,0	31,25		
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		
Cap WP-S MSWPS32760-S P Rev. 10	S32760-K2	457,2 x 70,0	70,0		
Elbow 90 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		
Conc. Red. WP-WX MSWPS32760-W/-WX Rev. 10	S32760-RG2	406,4 x 60,0/ 355,6 x 60,0	60,0		
Elbow 45 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					
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: Heike Ballik, 07.11.2025		Checked by/Date: Avgoustinos Evangelidis, 07.11.2025		

MRC Global Norway AS
Gamle Forusveien 53
4033 STAVANGER

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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): 21.03.2027

Signature: *Mika Berhoken*

Berhoken

MRC GlobalTM

	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 B4	168,3 x 4,5 457,2 x 54,99	60,0		
Tee WP-S MSWPS31803-S Rev. 8	T2 T4	168,3 x 4,5 457,2 x 54,99	60,0		
Conc. Red WP-S MSWPS31803-S Rev. 8	R2 R4	168,3 x 141,3 x 5,0 457,2 x 406,4 x 54,99	60,0		
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 BG6	323,9 x 5,0 457,2 x 50,0	60,0		
Tee WP-WX MSWPS31803-W/WX Rev. 8	TG4 TG6	323,9 x 5,0 457,2 x 50,0	60,0		
Conc. Red. WP-WX MSWPS31803-W/WX Rev. 8	RG4 RG7	323,9 x 273 x 5,0 457,2 x 406,4 x 50,0	60,0		
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		

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 liability for the use of or reliance on this qualification/ acceptance by other purchasers.
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Qualified/Accepted by (company name/address):

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Gamle Forusveien 53
4033 STAVANGER


Initial approval date: 21.03.2023

Expiry date (annual renewal): 21.03.2027

Signature: *Mika Buxhøkke*

Buxhøkke



MRC Global

	Qualification Test Record NORSOK M-650 Edition 4		QTR. No.: WS-QTR-004
			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 A 403/ UNS S31254/ MDS R13 Rev. 6		
Manufacturing summary doc. No.:	MSWPS31254-S, MSWPS31254-S P, MSWPS31254-W/-WX	Rev. No.: 8	
Products and manufacturing process(es):	Cold formed seamless and welded fittings, WPS31254-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 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 MSWPS31254-S Rev. 3	B2 B3	114,3 x 3,05 168,3 x 21,95	27,44		
Tee WP-S MSWPS31254-S Rev. 3	T2 T3	114,3 x 3,05 168,3 x 21,95	27,44		
Tee WP-S MSWPS31254-S Rev. 7	T4	219,1 x 35	40		
Conc. Red. WP-S MSWPS31254-S Rev. 3	R2 R3	114,3 x 88,9 x 3,05 168,3 x 141,3 x 21,3	26,63		
Cap WP-S MSWPS31254-S P Rev. 3	K1	355,6 x 21,95	27,44		
Cap WP-S MSWPS31254-S P Rev. 7	K2	219,1 x 30	37,5		
Elbow 90 DEG LR WP WX MSWPS31254-W/-WX Rev.3	BG4 BG5	219,1 x 5 406,4 x 28	37,5		
Tee WP-WX MSWPS31254-W/-WX Rev. 3	TG4 TG5	219,1 x 5 406,4 x 355,6 x 28	37,5		
Tee reduced WP-WX MSWPS31254-W/-WX Rev. 7	TG6	273,05 x 12,70/ 219,07 x 8,18	15,88		
Conc. Red. WP-WX MSWPS31254-W/-WX Rev.3	RG4 RG5	219,1 x 168,3 x 5 406,4 x 355,6 x 28	37,5		
Tee WP-WX MSWPS31254-W/-WX Rev. 7	TG7	219,1 x 35	40		

Qualification/acceptance signatures

Manufacturer:	Prepared by/Date: Heike Ballik, 07.11.2025 	Checked by/Date: Avgoustinios Evangelidis, 07.11.2025 
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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.
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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):

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4033 STAVANGER

Initial approval date: 21.03.2023

Expiry date (annual renewal): 21.03.2027

Signature: *Mika Buxleykel*

