

# CERTIFICATE

**TÜV NORD Systems GmbH & Co. KG**

certifies that the company

**VIRAJ PROFILES LTD. – SRM DIVISION**  
**Survey No. 25/1, 25/2, 26 & 34 Village Maan,**  
**Taluka- Palghar, Dist. Palghar - 401 506,**  
**Maharashtra, INDIA**

has been verified and recognized as material manufacturer according to

**AD 2000-Merkblatt W0**

**Certificate-No.: 07/203/1409/WP/1396/18**

File No.: 811 662 5724 / ISEC-73/19.

Production site: **See above.**

The scope of approval is available in the annex scope of approval.

The company fulfils the following essential requirements:

Facilities for appropriate manufacturing and testing, appropriate procedures for manufacturing of the products, qualified personnel for manufacturing and testing of the products and a quality management system with appropriate records which ensures proper manufacture of the products as well as compliance with the requirements specified in the material specification.

This certificate is valid until

**September 2021**

Essen, 2018-09-12

Annex: Scope of approval

Region: Essen  
Langemarckstr. 20  
45141 Essen

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**TUV NORD**  
Niekamp  
TÜV NORD Systems GmbH & Co. KG,  
Große Bahnstraße 31, 22525 Hamburg, Germany

# CERTIFICATE

Quality-Assurance System for material manufacturer  
according to Pressure Equipment Directive 2014/68/EU

Certificate no.: 07/202/1409/WZ/1396/18

Name and address  
of the manufacturer: **VIRAJ PROFILES LTD. – SRM DIVISION**  
**Survey No. 25/1, 25/2, 26 & 34 Village Maan,**  
**Taluka- Palghar, Dist. Palghar - 401 506,**  
**Maharashtra, INDIA**

Herewith we certify that the manufacturer has established and applies a **quality-assurance system related to the material**. This QA System has been subjected to a specific assessment acc. to directive 2014/68/EU, annex I, point 4.3 with regard to the materials mentioned in the scope of approval.

Approved acc. to directive  
2014/68/EU:

**QA-System in relation to materials,**  
**EN 764-5, section 4.2 and AD2000-Merkblatt W0**

Certification file no.:

**811 662 5724**

Audit report file no.:

**811 620 5125 (TN India)**

Scope of approval:  
(product / material)

**Manufacture and Supply of Stainless Steel Rolled  
Products: Sections, Bars & Bright Bars**  
**Survey No. 25/1, 25/2, 26 & 34 Village Maan,**  
**Taluka- Palghar, Dist. Palghar - 401 506,**  
**Maharashtra, INDIA**

Production site:

The certificate is valid until: **September 2021**

Only valid in conjunction with a valid certificate acc. to EN ISO 9001.

Essen, 12.09.2018

Annex: scope of approval

Region: Essen  
Langemarckstr. 20  
45141 Essen, Germany

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Notified Body (0045)  
for Pressure Equipment

  
**Niekamp**  
TÜV NORD Systems GmbH & Co. KG,  
Größe Bahnstraße 31, D-22525 Hamburg

Member of



CONFÉDÉRATION EUROPÉENNE D'ORGANISMES DE CONTRÔLE

# TÜV NORD Systems GmbH & Co. KG

Notified Body for Pressure Equipment Directive (PED), Reg. No. 0045  
 Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU,  
 annex I, pt. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0



Date : 12.09.2018  
 TÜV-File: ISEC-73/19  
 SAP: 811 662 5724



## Annex to Certificate

Firm: Viraj Profiles Ltd - SRM Division  
 Place: Survey No. 25/1, 25/2, 26 & 34, Palghar, MS, India

DGRL-Nr.: 07 202 1409 WZ 1396 18  
 AD 2000-W0-Nr.: 07 203 1409 WP 1396 18

Item No.	Material Designation Material number	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg./f]	Techn. Specification Requirements	Remarks
1	2	3	4	5	6	7	8	9
1.1	1.4301		1D (HRAP)	Angle	19 to 152.4 (Width) 3 to 12.7 (Thickness)	19X19X3 = 0.82 Kg/Mtr. 152.4X152.4X12.7 = 29.12 Kg/Mtr.	Directive 2014/68/EU AD 2000 Merkblatt W0	Certified acc. to PED annex I, sec. 4.3 by the notified body of TÜV NORD Systems (Reg. no. 0045).
1.2	1.4307		1D (HRAP)				AD 2000 Merkblatt W2	
1.3	1.4306	EN 10272	1D (HRAP)	Unequal Angle	50 to 152.4 (Width) 5 to 12.7 (Thickness)	50X30X5 = 2.94 Kg/Mtr. 152.4X101.6X12.7 = 24.06 Kg/Mtr.	AD 2000 Merkblatt W10	
1.4	1.4401		1D (HRAP)	Flat	19 to 152.4 (Width) 3 to 12.7 (Thickness)	19X3 = 0.47 Kg/Mtr. 152.4X38.1 = 45.58 Kg/Mtr.		
1.5	1.4404		1D (HRAP)	Channel	50.8 to 203.2 (Web) 25 to 75 (Flange) 3 to 12 (Thickness)	50.8X25.4X4.76X4.76 = 3.44 Kg/Mtr. 203.2X64.3X12.37X9.9 = 28 Kg/Mtr.		
1.6	1.4541		1D (HRAP)	I-BEAM	76.2 - 101.6 (Width) 4.3 - 7.4 (Thickness)	76.2X59.2X4.3X6.6 = 8.5 Kg/Mtr. 101.6X67.6X4.9X7.4 = 10.80 Kg/Mtr.		
1.7	1.4571		1D (HRAP)	TEE BAR	50 (Width) 6 (Thickness)	50X50X6 = 4.4 Kg/Mtr.		
			2H Cold Finished	POLISHED BARS	20 - 150 (Width) 5 - 12 (Thickness)	20X5 = 0.79 Kg/Mtr. 150X12 = 14.13 Kg/Mtr.		
				FLAT BAR	19.05 to 101.6 (Width) 6.35 to 19.05 (Thickness)	19.05X6.35 = 0.94 Kg/Mtr. 101.6X19.05 = 15.19 Kg/Mtr.		

Explanation: +AT/ AT = solution heat treated and detemred; N = Normalized or normalizing rolled / forming;  
 NT = normalized and tempered; +QT / V = quenched and tempered; M = thermo mechanical treated  
 AR = without annealing; SR = stress relieved; A = soft annealed; CR = controlled hot rolled  
 Hints for materials use acc. to Directive 2014/68/EU : The specific material operation conditions have to be approved by pressure equipment manufacturer and by the notified body in charge

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 Scope of approval for material manufacturer acc. to Pressure Equipment Directive 2014/68/EU,  
 annex I, pt. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0



Niekamp



Date : 12.09.2018  
 TÜV-File: ISEC-73/19  
 SAP: 811 662 5724

Annex to Certificate  
 DGRL-Nr.: 07 202 1409 WZ 1396 18  
 AD 2000-W0-Nr.: 07 203 1409 WP 1396 18

Firm: Viraj Profiles Ltd - SRM Division  
 Place: Survey No. 25/1, 25/2, 26 & 34, Palghar, MS, India

Item No.	Material Designation	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg, f]	Techn. Specification Requirements	Remarks				
1	2	3	4	5	6	7	8	9				
1.8	1.4301	EN 10272	+AT/AT	Stainless Steel Bright Bars	Round Bars 2.5 mm to 250 mm	}	Directive 2014/68/EU AD 2000 Merkblatt W0 AD 2000 Merkblatt W2 AD 2000 Merkblatt W10	Certified acc. to PED annex I, sec. 4.3 by the notified body of TÜV NORD Systems (Reg. no. 0045).				
1.9	1.4306	EN 10272	+AT/AT									
1.10	1.4307	EN 10272	+AT/AT									
1.11	1.4401	EN 10272	+AT/AT									
1.12	1.4404	EN 10272	+AT/AT									
1.13	1.4541	EN 10272	+AT/AT									
1.14	1.4571	EN 10272	+AT/AT									
1.15	1.4436	EN 10272	+AT/AT									
1.16	1.4406	EN 10272	+AT/AT									
1.17	1.4057	EN 10272	+AT/+QT800 /+QT900									
2.1	1.4301	EN 10088-3	+AT/AT		Strainless steel Bright Bars				Round Bars 2.5 mm to 250 mm	}	}	If use in area of pressure equipment directive a Particular Material Appraisal ( PMA) is necessary.
2.2	1.4306	EN 10088-3	+AT/AT									
2.3	1.4307	EN 10088-3	+AT/AT									
2.4	1.4401	EN 10088-3	+AT/AT									
2.5	1.4404	EN 10088-3	+AT/AT									
2.6	1.4541	EN 10088-3	+AT/AT									
2.7	1.4571	EN 10088-3	+AT/AT									
2.8	1.4436	EN 10088-3	+AT/AT									
2.9	1.4406	EN 10088-3	+AT/AT									
2.10	1.4057	EN 10088-3	+AT/+QT800 /+QT900									

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 annex I, pt. 4.3 and AD 2000-Merkblatt W0 / AD2000-Guidelines W0



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Date : 12.09.2018  
 TÜV-File: ISEC-73/19  
 SAP: 811 662 5724

### Annex to Certificate

DGRL-Nr.: 07 202 1409 WZ 1396 18  
 AD 2000-WO-Nr.: 07 203 1409 WP 1396 18

Firm: Viraj Profiles Ltd - SRM Division  
 Place: Survey No. 25/1, 25/2, 26 & 34, Palghar, MS, India

Item No.	Material Designation Material number	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg. f]	Techn. Specification Requirements	Remarks
1								
2.11	1.4301		4	5	6	7	8	9
2.12	1.4307		1D (HRAP)	Angle	19 to 152.4 (Width) 3 to 12.7 (Thickness)	19X19X3 = 0.82 Kg/Mtr. 152.4X152.4X12.7 = 29.12 Kg/Mtr.		
2.13	1.4306		1D (HRAP)					
2.14	1.4401	EN 10088-3	1D (HRAP)	Unequal Angle	50 to 152.4 (Width) 5 to 12.7 (Thickness)	50X30X5 = 2.94 Kg/Mtr. 152.4X101.6X12.7 = 24.06 Kg/Mtr.		
2.15	1.4404		1D (HRAP)	Flat	19 to 152.4 (Width) 3 to 12.7 (Thickness)	19X3 = 0.47 Kg/Mtr. 152.4X38.1 = 45.58 Kg/Mtr.		
2.16	1.4541		1D (HRAP)					
2.17	1.4571		1D (HRAP)					
2.18	304	ASTM A 276	A (HRAP)	Channel	50.8 to 203.2 (Web) 25 to 75 (Flange)	50.8X25.4X4.76X4.76 = 3.44 Kg/Mtr. 203.2X64.3X12.37X9.9 = 28 Kg/Mtr.		
2.19	304L	ASTM A 479	A (HRAP)					
2.20	316	ASME SA 276	A (HRAP)					
2.21	316L	ASTM SA 479	A (HRAP)					
2.22	316TI		A (HRAP)	I-BEAM	76.2 - 101.6 (Width) 4.3 - 7.4 (Thickness)	76.2X59.2X4.3X6.6 = 8.5 Kg/Mtr. 101.6X67.6X4.9X7.4 = 10.80 Kg/Mtr.		If use in area of pressure equipment directive a Particular Material Appraisal ( PMA) is necessary.
2.23	321		A (HRAP)	TEE BAR	50 (Width) 6 (Thickness)	50X50X6 = 4.4 Kg/Mtr.		
				POLISHED BARS	20 - 150 (Width) 5 - 12 (Thickness)	20X5 = 0.79 Kg/Mtr. 150X12 = 14.13 Kg/Mtr.		
			2H Cold Finished	FLAT BAR	19.05 to 101.6 (Width) 6.35 to 19.05 (Thickness)	19.05X6.35 = 0.94 Kg/Mtr. 101.6X19.05 = 15.19 Kg/Mtr.		

Explanation: +AT/ AT = solution heat treated and detemred; N = Normalized or normalizing rolled / forming;  
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 AR = without annealing; SR = stress relieved; A = soft annealed; CR = controlled hot rolled

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### Annex to Certificate

Firm: Viraj Profiles Ltd - SRM Division  
 Place: Survey No. 25/1, 25/2, 26 & 34, Palghar, MS, India

DGRL-Nr.: 07 202 1409 WZ 1396 18  
 AD 2000-W0-Nr.: 07 203 1409 WP 1396 18

Item No.	Material Designation Material number	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [Kg. f]	Techn. Specification Requirements	Remarks
1	2	3	4	5	6	7	8	9
2.24	Type 304	ASTM A 276	Hot Rolled	RCS (ROUND CORNER SQUARE)	RCS 60 to 170 mm			
2.25	Type 304L	ASTM A 479						
2.26	Type 316	ASME SA 276	+AT/AT +AT/AT +AT/AT +AT/AT +AT/AT +AT/AT +AT/AT +AT/AT +AT/AT +AT/AT	Stainless Steel Bright Bars	Round Bars 2.5 mm to 600 mm  Square & Hex bars 4 mm to 80 mm  RCS 60 to 170mm			If use in area of pressure equipment directive a Particular Material Appraisal ( PMA) is necessary.
2.27	Type 316L	ASTM SA 479						
2.28	Type 316TI	ASME SA 276						
2.29	Type 321	ASME SA 479						
2.30	Type 304	ASTM A 276						
2.31	Type 304L	ASTM A 479						
2.32	Type 316	ASME SA 276						
2.33	Type 316L	ASTM A 479						
2.34	Type 321	ASTM A 479M						
2.35	Type 316TI	ASME SA 276						
2.36	Type S31803	ASME SA 479						
2.37	Type 304LN	ASME SA 479M						
2.38	Type 310S							
2.39	Type 316LN							
2.40	Type 347							
2.41	Type 304H	ASTM A 479						
2.42	Type 316H	ASME SA 479						
2.43	Type 310	ASTM A 276						
		ASME SA 276						

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 AR = without annealing; SR = stress relieved; A = soft annealed; CR = controlled hot rolled

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*K. Niekamp*  
 Niekamp



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Annex to Certificate

Firm: Viraj Profiles Ltd - SRM Division  
 Place: Survey No. 25/1, 25/2, 26 & 34, Palghar, MS, India  
 DGRL-Nr.: 07 202 1409 WZ 1396 18  
 AD 2000-W0-Nr.: 07 203 1409 WP 1396 18

Item No.	Material Designation Material number	Material Specification	Delivery Condition	Article Type of product	Dim. [mm] Thickness	Dim. Ø [mm] Weight [kg, t]	Techn. Specification Requirements	Remarks
1								
2.44	Type 431	ASTM A 276	A	Stainless Steel Bright Bars	Round bars 4 to 400mm	7	8	
2.45	Type 431	ASME SA 479 / SA 479M	A, tempered	Stainless Steel Bright Bars	Round bars 4 to 400mm			If use in area of pressure equipment directive a Particular Material Appraisal ( PMA) is necessary.

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 NT = normalized and tempered; +QT / V = quenched and tempered; M = thermo mechanical treated  
 AR = without annealing; SR = stress relieved; A = soft annealed; CR = controlled hot rolled