Villares Metals S. A.

DoP – No VM002 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Austenitic Stainless Steels acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4301 (V304XLUF)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM002 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4301	≤ 160	215
	160 < d ≤ 400	215
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4301	≤ 160	190
	160 < d ≤ 400	190
1,0% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4301	≤ 160	225
	160 < d ≤ 400	225
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4301	≤ 160	500 - 700
	160 < d ≤ 400	500 - 700
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4301	≤ 160	45 (long)
	160 < d ≤ 400	35 (transv)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4301	≤ 160	100 (long)
	160 < d ≤ 400	60 (transv)
Charpy Impact Test at -196ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4301	≤ 160	60
	160 < d ≤ 400	60
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4301	≤ 160	Be approved
	160 < d ≤ 400	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4301	≤ 160	NA
	160 < d ≤ 400	NA

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024

Villares Metals S. A.

DoP – No VM004 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Austenitic Stainless Steels acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4306 (N4306VAR)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM004 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4306	≤ 160	215
	160 <d ≤ 400	215
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4306	≤ 160	180
	160 < d ≤ 400	180
1,0% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4306	≤ 160	215
	160 < d ≤ 400	215
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4306	≤ 160	460 - 680
	160 < d ≤ 400	460 - 680
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4306	≤ 160	45 (long)
	160 < d ≤ 400	35 (transv)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4306	≤ 160	100 (long)
	160 < d ≤ 400	60 (transv)
Charpy Impact Test at -196ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4306	≤ 160	60
	160 < d ≤ 400	60
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4306	≤ 160	Be approved
	160 < d ≤ 400	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4306	≤ 160	Be approved
	160 < d ≤ 400	Be approved

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024

Villares Metals S. A.

DoP – No VM005 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Austenitic Stainless Steel acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4401 (N4404)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM005 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4401	≤ 160	215
	160 <d ≤ 450	215
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4401	≤ 160	200
	160 < d ≤ 450	200
1,0% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4401	≤ 160	235
	160 < d ≤ 450	235
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4401	≤ 160	500 - 700
	160 < d ≤ 450	500 - 700
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4401	≤ 160	40 (long)
	160 < d ≤ 450	30 (transv)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4401	≤ 160	100 (long)
	160 < d ≤ 450	60 (transv)
Charpy Impact Test at -196ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4401	≤ 160	60
	160 < d ≤ 450	60
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4401	≤ 160	Be approved
	160 < d ≤ 450	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4401	≤ 160	NA
	160 < d ≤ 450	NA

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024

Villares Metals S. A.

DoP – No VM001 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Austenitic Stainless Steels acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4404 (N4404)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM001 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4404	≤ 160	215
	160 < d ≤ 400	215
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4404	≤ 160	200
	160 < d ≤ 400	200
1,0% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4404	≤ 160	235
	160 < d ≤ 400	235
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4404	≤ 160	500 - 700
	160 < d ≤ 400	500 - 700
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4404	≤ 160	40 (long)
	160 < d ≤ 400	30 (transv)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4404	≤ 160	100 (long)
	160 < d ≤ 400	60 (transv)
Charpy Impact Test at -196ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4404	≤ 160	60
	160 < d ≤ 400	60
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4404	≤ 160	Be approved
	160 < d ≤ 400	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4404	≤ 160	Be approved
	160 < d ≤ 400	Be approved

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024

Villares Metals S. A.

DoP – No VM008 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Austenitic-Ferritic Stainless Steel acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4462 (N4462)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM008 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4462	≤ 160	270
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4462	≤ 160	450
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4462	≤ 160	650 - 880
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4462	≤ 160	25 (long)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4462	≤ 160	100 (long)
Charpy Impact Test at -40ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4462	≤ 160	40 (long)
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4462	≤ 160	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4462	≤ 160	Be approved

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024

Villares Metals S. A.

DoP – No VM009 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Autenitic-Ferritic Stainless Steels acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4501 (N4501)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM009 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4501	≤ 160	290
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4501	≤ 160	530
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4501	≤ 160	730 - 930
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4501	≤ 160	25 (long)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4501	≤ 160	100 (long)
Charpy Impact Test at -40ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4501	≤ 160	40 (long)
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4501	≤ 160	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4501	≤ 160	Be approved

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024

Villares Metals S. A.

DoP – No VM007 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Austenitic-Ferritic Stainless Steel acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4507 (N4507)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM007 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4507	≤ 160	270
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4507	≤ 160	500
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4507	≤ 160	700 - 900
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4507	≤ 160	25 (long)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4507	≤ 160	100 (long)
Charpy Impact Test at -40ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4507	≤ 160	40 (long)
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4507	≤ 160	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4507	≤ 160	Be approved

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024

Villares Metals S. A.

DoP – No VM006 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Austenitic Stainless Steels acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4541 (N4541)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM006 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4541	≤ 160	215
	160 <d ≤ 400	215
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4541	≤ 160	190
	160 < d ≤ 400	190
1,0% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4541	≤ 160	225
	160 < d ≤ 400	225
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4541	≤ 160	500 - 700
	160 < d ≤ 400	500 - 700
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4541	≤ 160	40 (long)
	160 < d ≤ 400	30 (transv)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4541	≤ 160	100 (long)
	160 < d ≤ 400	60 (transv)
Charpy Impact Test at -196ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4541	≤ 160	60
	160 < d ≤ 400	60
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4541	≤ 160	Be approved
	160 < d ≤ 400	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4541	≤ 160	Be approved
	160 < d ≤ 400	Be approved

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024

Villares Metals S. A.

DoP – No VM003 / EN 10272:2016 / EN 10088-3:2014

According to Annex III Construction Products Regulation (305/2011/EU) and Regulation (EU) N574/2014

DECLARATION OF PERFORMANCE

For the construction products	**Hot rolled and hot forged bars of Austenitic Stainless Steels acc. to EN 10272**
1. Unique identification code for product type	**WNr. 1.4571 (N4571)**
2. Intended use:	**Parts, Close Die Forged Parts and Machined Parts from hot rolled and forged bars for steel construction.**
3. Manufacturer:	**Villares Metals S. A.** **Rua Alfredo Dumont Villares, 155, Sumaré, SP, Brasil**
4. Authorized representative:	**(where relevant name and address of authorised representative / foreign agency)**
5. Assessment system and verification for constancy of performance: Acc. To Annex V	**System 2+**
6. The notified body: has conducted the first inspection and continuous surveillance. According to the system and issued the certificate	**BR-TUV Brasil, São Paulo, SP, Brasil**
7. Construction product with European Technical Assessment	**No**

Villares Metals S. A.

DoP – No VM003 / EN 10272:2016 / EN 10088-3:2014

8. Declared Performance		
Essential Characteristcs		**Performance**
Tolerance, dimensions and shape	**Hot rolled and forged bars**	**EN 10272**
Hardness	**Nominal Thickness (mm)**	**max values HBW**
1.4571	≤ 160	215
	160 <d ≤ 400	215
0,2% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4571	≤ 160	200
	160 < d ≤ 400	200
1,0% Yield Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4571	≤ 160	235
	160 < d ≤ 400	235
Tensile Strength	**Nominal Thickness (mm)**	**min values MPa**
1.4571	≤ 160	500 - 700
	160 < d ≤ 400	500 - 700
Elongation	**Nominal Thickness (mm)**	**min values %**
1.4571	≤ 160	40 (long)
	160 < d ≤ 400	30 (transv)
Charpy Impact Test at 20ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4571	≤ 160	100 (long)
	160 < d ≤ 400	60 (transv)
Charpy Impact Test at -196ºC	**Nominal Thickness (mm)**	**min Energy values Joule**
1.4571	≤ 160	60
	160 < d ≤ 400	60
Intergranular Corrosion in the delivery condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4571	≤ 160	Be approved
	160 < d ≤ 400	Be approved
Intergranular Corrosion in the sensitized condition	**Nominal Thickness (mm)**	**Examination under low magnification**
1.4571	≤ 160	Be approved
	160 < d ≤ 400	Be approved

Signed for and on behalf of the manufacturer:

Maria Carolina Couto Campos

Maria Carolina Couto Campos

01/11/2024