



Declaration of performance

according to BauPVO (305/2011/EU)

Unique identification code of the product type		Flat products, bars and profiles hot rolled, heat treated and cold finished in grades 1.4301/ 1.4307 /1.4541 / 1.4401 / 1.4404 /1.4571 /1.4539 /1.4362 / 1.4462 /1.4439										
Intended use:		konstruktion			System of assessment:				2+			
Manufacturer:		Walzwerke Einsal GmbH Altenaer Straße 85 58769 Nachrodt										
Notified factory production control certification body No. 0045(TÜV NORD Industrie Service GmbH. D -22525Hamburg) performed the initial inspection of the manufacturing plant and of factory production control as well as the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control with no. 0045- CPD-0852												
In the following tables: Essential Characteristics, Performance values and Harmonized Technical Specification												
All specific performance characteristics are given in the inspection certificate that comes with each delivery.												
Tolerances on dimensions and shape				according to DIN EN 10058 / 10059 / 10278 / 6880								
Chemical values												
Güte	C	Si	Mn	P	S	Ni	Cr	Mo	Ti	Cu	N	
1.4301	≤ 0,07	≤ 1,00	≤ 2,00	0,045	≤ 0,030	8,0-10,5	17,5-19,5	-	-	-	≤ 0,11	DIN EN 10088-5
1.4307	≤ 0,03	≤ 1,00	≤ 2,00	0,045	≤ 0,030	8,0-10,5	17,5-19,5	-	-	-	≤ 0,11	DIN EN 10088-5
1.4541	≤ 0,08	≤ 1,00	≤ 2,00	0,045	≤ 0,030	9,0-12,0	17,0-19,0	-	5xC -0,7	-	-	DIN EN 10088-5
1.4401	≤ 0,07	≤ 1,00	≤ 2,00	0,045	≤ 0,030	10,0-13,0	16,5-18,5	2,0-2,5	-	-	≤ 0,11	DIN EN 10088-5
1.4404	≤ 0,03	≤ 1,00	≤ 2,00	0,045	≤ 0,030	10,0-13,0	16,5-18,5	2,0-2,5	-	-	≤ 0,11	DIN EN 10088-5
1.4571	≤ 0,08	≤ 1,00	≤ 2,00	0,045	≤ 0,030	10,5-13,5	16,5-18,5	2,0-2,5	5xC -0,7	-	≤ 0,11	DIN EN 10088-5
1.4539	≤ 0,02	≤ 0,70	≤ 2,00	0,03	≤ 0,010	24,0-26,0	19,0-21,0	4,0-5,0	-	1,2-2,0	≤ 0,15	DIN EN 10088-5
1.4362	0,030	≤ 1,00	≤ 2,00	0,035	0,015	3,5-5,5	22,0-24,0	0,1-0,6	-	0,1-0,6	≤ 0,11	DIN EN 10088-5
1.4462	0,030	≤ 1,00	≤ 2,00	0,035	0,015	4,5-6,5	21,0-23,0	2,5-3,5	-	-	≤ 0,11	DIN EN 10088-5
1.4439	≤ 0,030	≤ 1,00	≤ 2,00	0,045	≤ 0,015	12,5-14,5	16,5-18,5	4,0-5,0	-	-	0,12-0,22	DIN EN 10088-5
Mechanical values according to DIN EN 10088-5												
Weldability				covered by chemical composition							DIN EN 10088-5	
Durability				covered by chemical composition							DIN EN 10088-5	
Fracture toughness				covered by impact strength							DIN EN 10088-5	
Cold formability				covered by elongation							DIN EN 10088-5	
The performance of the product identified in "Unique identification of product-type" is in conformity with the declared performance in the previous table.												
This declaration of performance is issued under the sole responsibility of the identified manufacturer.												
Signed for and on behalf of the manufacturer by:												

Nachrodt, 12.11.2014

Walzwerke Einsal GmbH
Quality Manager