تي اس اي للصناعات المعدنية ذ.م.م
TSI Metal
INDUSTRIES L.L.C

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DECLARATION OF PERFORMANCE

DOP NO: TSI/10219/23	**CPR: 305/2011**	**DATE: 15-MAY-2025**

1)	Unique identification code of the product type	Cold formed welded structural hollow sections of non- alloy steels (CHS): **Ø21.3-219.1** mm & Thickness **1.50-8.00**mm
2)	Type, batch or serial number or any other element allowing identification of the construction product	Steel Name: **S420MLH**; Steel Number: **1.8848** Refer Label and Mill Test Certificate
3)	Intended use or uses of the construction product	To be used in metal structures or in composite metal and concrete structures
4)	Manufacturer name, registered trade name or trademark and contact address	TSI Metal Industries LLC, P.O. Box: 31165, ICAD-II, Abu Dhabi, United Arab Emirates
5)	Name and contact address of the authorized representative	DEXTRA GmbH Lindenstrasse 3-5, 41515 Grevenbroich, Germany
6)	Attestation of conformity system (s)	AOC 2+
7)	Harmonized Standard	EN 10219-1:2006 & EN 10219-2:2019
8)	Notified Body	

"TÜV Rheinland Polska Sp. z o.o., **Notified Body No 2627**", performed the initial inspection of the manufacturing plant and of factory production control and continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control,
Certificate Number: "**2627-CPR-A.IN0002.TUVRh.25.01**" on 13-MAY-2025 valid up to 12-MAY-2028.

9)	Declared Performance (As below)

Essential characteristics	**Performance**							**Harmonised Technical Specification**
Tolerances on dimensions and shape	EN 10219-2:2019 corresponds							EN 10219-1:2006 & EN 10219-2:2019
Elongation %	19 min							
Tensile Strength, MPa	500-660							
Yield Strength, MPa	420 min							
Impact Strength, Joule	27 min at Test Temperature -50°C							
Weldability Chemical Composition-Cast analysis of product (% by mass) Max	CEV: 0.430							
	C	Si	Mn	P	S	N	Al-t min	
	0.160	0.500	1.700	0.030	0.025	0.020	0.020	
	Nb	V	Ti	Ni	Mo	Cr+Cu+Mo		
	0.050	0.120	0.050	0.30	0.200	0.600		
Durability	NPD- Bare or Zinc Coated (as applicable)							

10)	The performance of the product identified in points 1 & 2 is in conformity with declared performance in point 9

This declaration of performance is issued under the sole responsibility of TSI Metal Industries LLC.
Signed for and on behalf of the manufacturer by:

Narendra Kumar
Manager - Quality Assurance & Control
Abu Dhabi