Si-TSS 439 Spengler Industries Terne clad stainless grade 439



Material 1.4510 according to DIN 17441/EN 10 088-2										
Spengler Industries	(DIN/EN) USA (AISI)	X 3 CrTi1	X 3 CrTi17 / X 6 CrTi17 439 / 430							
Chemical Composition	С	Cr	Ti							
	Min Max. 0.05	16.0 18.00	4 x (C + N) 0.80	+ 0.15	5					
Mechanical Properties	Dimensional Range	RP (0.2% y N/mm	yield streng	ith)	RM tensile strength N/mm 2			A8 bre %	A80 breaking strain %	
	Cold-rolled strip s < 6 mm –	> 240			400 – 6	00		> 2	3	
Minimum Values at Higher Temperatures (0.2%-yield strength) N/mm 3	Temperature °C Rp0.2		100 1 195 1	50	200 185	250 175	300 165	35(15	5	
Physical Properties	Density Elastici kg/dm ₃ in kN/n 20°C 1	ıs)°C <mark> </mark> 300°C 400°C		Thermal Expansion in between 20°C and 100°C 200°C 300°C 44			n in 10-6 400°C	5 . K-1 500°C		
	7.72202ThermalConductivityby 20°CW/m.K25	218 212	2 205 Specific Heat Capa by 20°C J/kg.K 460	197 city	10.0 Electric Resista by 20°C Ω.mm a 0.60	10.0 al nce 2 ém	10.5	10.5 Ma Ext	11.0 gnetizability ant	
Forms of Delivery	Sheets:1 meter (39.4 inches) x choice of 10 ft or 8 ftCoils:Standard is 20 inch, but custom widths available upon request									
Surface Finish The stainless steel sheet is provided with an electrolytically deposited tin layer. This me- tallic coating is not related to the corrosion resistance of stainless steel.										
Forming tools. Preformed roofing feet.	Si TSS 439 forms panels for doubl	s easily wit e-locked s	th most sta standing se	ndard am sys	sheet m stems ar	ietal for e also a	ming m vailable	nachine e in leng	ry and hand gths up to 35	
Maintenance after installation. It is rec chemical reactions. Si TS gray. The time it takes for tors and therefore, the m this natural weathering p	Si TSS 439 is a m ommended that S 439 will weather r the material to v aterial will weath process should no	naintenand dirt and d er over tim weather do er relative ot be atten	ce-free mat ebris be re le and softe epends on e to local co npted.	erial. movec en fron a num nditio	It require I promp n its shir ber of a ns. The	es no su tly to av ny meta tmosph use of o	irface ti void sta Ilic finis eric and ixide ac	reatmer ins due h to a s d envirc celeran	nt before or to oxides/ oft earthen onmental fac- ts to speed up	
Soldering welding or torches.	Use soldering in	ons only (3	3 pound m	aximu	m). Use	50/50 t	in-lead	solder.	Do not use	
Transport/Storage	Store dry.									
Dimensions, Tolerances	Thickness 0.5 mm (0.019 inch), other thicknesses on request.									