

LOW-ALLOYED STEELS WITH HIGH YIELD STRENGTH FOR COLD WORKING

MECHANICAL PROPERTIES

Rolled product grades	Standard	Yield strength, MPa (N/mm ²)	Ultimate strength, MPa (N/mm ²)	Relative elongation, %, min.	R	n	Sampling direction with respect to rolling direction
HX180YD	EN 10346	180–240	330–390	34	≥ 1.7	≥ 0.18	Transverse
HX220YD		220–280	340–420	32	≥ 1.5	≥ 0.17	
HX260YD		260–320	380–440	30	≥ 1.4	≥ 0.16	
HX300YD		300–380	380–480	27	–	–	
HX260LAD		260–330	350–430	26	–	–	
HX300LAD		300–380	380–480	23	–	–	
HX340LAD		340–420	410–510	21	–	–	
HX380LAD		380–480	440–560	19	–	–	
HX420LAD		420–520	470–590	17	–	–	

THICKNESS/WIDTH RATIO FOR ROLLED PRODUCTS

● HX180YD

Steel thickness before galvanizing, mm	Strip width, mm					
	900	1,420	1,550	1,570	1,640	1,750
0.49–0.57						
0.58–0.64						
0.65–0.77						
0.78–1.17						
1.18–1.59						

● HX220YD

Steel thickness before galvanizing, mm	Strip width, mm				
	900	1,370	1,520	1,560	1,620
0.58–0.62					
0.63–0.67					
0.68–1.27					
1.28–1.50					

● HX260YD

Steel thickness before galvanizing, mm	Strip width, mm				
	900	1,370	1,490	1,620	1,750
0.58					
0.59–0.80					
0.81–1.50					
1.51–2.00					

● HX300YD

Steel thickness before galvanizing, mm	Strip width, mm			
	900	1,270	1,470	1,520
0.58–0.62				
0.63–0.96				
0.97–1.50				

● HX260LAD

Steel thickness before galvanizing, mm	Strip width, mm				
	900	1,390	1,520	1,570	1,660
0.58–0.80					
0.81–1.50					
1.51–1.90					
1.91–2.00					

● HX300LAD

Steel thickness before galvanizing, mm	Strip width, mm					
	900	1,320	1,455	1,460	1,580	1,600
0.58–0.67						
0.68–0.89						
0.90–1.47						
1.48–1.50						

● HX340LAD

Steel thickness before galvanizing, mm	Strip width, mm			
	900	1,320	1,420	1,510
0.68–0.89				
0.90–0.97				
0.98–1.50				

● HX380LAD

Steel thickness before galvanizing, mm	Strip width, mm				
	900	1,270	1,320	1,420	1,560
0.68–0.69					
0.70–0.89					
0.90–0.97					
0.98–1.50					

● HX420LAD

Steel thickness before galvanizing, mm	Strip width, mm		
	900	1,270	1,300
0.68–0.98			
0.99–1.50			