

# Cold rolled strip **MILD STEEL**

## FOR DRAWING AND FORMING PURPOSES APPLICATIONS

### AVAILABLE STOCK

FT2/ANGL/QUAL/March 2009

GRADE			Material condition		Available thickness
<b>BS</b>	<b>EN 10139</b>		<b>EN 10139</b>		0.2 to 4.0  surface aspect MB - MA finishes RL
<b>CS4</b>	<b>1.0330</b>	<b>DC01</b>	annealed – skin passed		
<b>CS3</b>	<b>1.0347</b>	<b>DC03</b>	cold rolled C340		
<b>CS1</b>	<b>1.0338</b>	<b>DC04</b>	cold rolled C390		
	<b>1.0312</b>	<b>DC05</b>	cold rolled C490		
	<b>1.0873</b>	<b>DC06</b>	cold rolled C590		

Thickness tolerances according to EN 10140 / 96

### MECANICAL PROPERTIES AND CHEMICAL COMPOSITION IN ACCORDANCE WITH : EN 10139/97

EN 10027-1 and CR 10260	EN 10027-2	Material condition		Yield strength 0.2 N/MM <sup>2</sup>	Tensile strength N/mm <sup>2</sup>	Elongation % min		Hardness <sup>11)</sup> HV		Chemical composition % max				
						E80	E50	Min	Max	C	P	S	Mn	Ti
<b>DC01</b>	1.0330	annealed skin passed	<b>LC</b>	280 max	270 to 410	28	30	-	115	0.12	0.045	0.045	0.60	-
			<b>C340</b>	250 min	340-490			105	155					
		cold rolled	<b>C390</b>	310 mini	390-540	-	-	117	172					
			<b>C490</b>	420 min	490-640			155	200					
			<b>C590</b>	520 min	590-740			185	225					
<b>DC03</b>	1.0347	annealed skin passed	<b>LC</b>	240 max	270 - 370	34	36	-	110	0.10	0.035	0.035	0.45	-
			<b>C340</b>	240 min	340-440			105	130					
		cold rolled	<b>C390</b>	330 min	390-490	-	-	117	155					
			<b>C490</b>	440 min	490-590			155	185					
			<b>C590</b>	540 min	590 min			185	-					
<b>DC04</b>	1.0338	annealed skin passed	<b>LC</b>	210 max	270 - 350	38	40	-	105	0.08	0.030	0.030	0.40	-
			<b>C340</b>	240 min	340-440	-	-	105	130					
		cold rolled	<b>C390</b>	350 min	390-490			117	155					
			<b>C490</b>	460 min	490-590			155	185					
			<b>C590</b>	560 min	590-690			185	215					
<b>DC05</b>	1.0312	annealed skin passed	<b>LC</b>	180 max	270 - 330	40	42	-	100	0.06	0.025	0.025	0.35	-
<b>DC06</b>	1.0873	annealed skin passed	<b>LC</b>	180 max	270 - 350	38	40	r min 1.8	n min 0.220	0.02	0.020	0.020	0.25	0.3

### SURFACE FINISHES: EN 10139/97

Surface aspect*	Surface aspect	Surface finishes
<b>MA</b>	Smooth appearance that can show very light marks	RR, RM, RL
<b>MB</b>	Smoother appearance than the above mentioned condition; can show very light marks	RM, RL
<b>MC</b>	Smooth, bright appearance with good reflecting power that can show very light marks	RN

\* Not for either the first inside spiral nor the first outside spiral of the coil.

### SURFACE FINISHES: EN 10139/97

<b>RR</b>	roughness	Ra ≥ 1.5 µm	<b>RL</b>	normal	Ra ≤ 0.6 µm
<b>RM</b>	matt	0.6 < Ra ≤ 1.8 µm	<b>RN</b>	bright	Ra ≤ 0.2 µm