

<b>Quality</b>	<b>E360</b> (C50E – C55E - C60E)	<b>Structural Steel</b>	<i>Technical card Lucefin Group rev. 2018</i>
According to standards	EN 10025-2: 2004		
Number	1.0070		

### Chemical composition

C%	Si%	Mn%	P%	S%	N%	Cu%	
-	-	-	max	max	max	-	<b>Cast analysis</b>
-	-	-	0,045	0,045	0,012 <sup>a)</sup>	-	<b>Product analysis</b>
-	-	-	0,055	0,055	0,014 <sup>b)</sup>	-	

FN deoxidation method - rimming steel not admitted

a) N max value is not applied if chemical composition shows total Al content of 0.020%

b) N the max value is not applied if chemical composition shows total Al content of 0.015%

### Temperature °C

Hot-forming	Normalizing +N	Quenching +Q	Quenching +Q	Tempering +T	Temperature values are valid for analysis close to:		
1050-850	825-885 air	830 water	850 oil, polymer	550-650 air	C%	Mn%	Si%
Pre-heating welding						Stress-relieving after welding	
Soft annealing +A	Isothermal annealing +I	Stress-relieving +SR	End quench hardenability	250	600 furnace cooling		
690 air	790 furnace cooling to 660 then air	50 under the temperature of tempering	-	Ac1	Ac3	Ms	Mf

### Mechanical properties

**Hot-rolled EN 10025-2: 2004 E360 1.0070**

Testing at room temperature

size mm	R	ReH	A% (L)	A% (T)	Kv	HB	
from to	N/mm <sup>2</sup>	N/mm <sup>2</sup> min	min	min	J min	for information	
3	690-900	360	-	-	-	-	
3 16	670-830	360	11	10	-	203-249	
16 40	670-830	355	11	10	-	203-249	
40 63	670-830	345	10	9	-	203-249	
63 80	670-830	335	9	8	-	203-249	
80 100	670-830	325	9	8	-	203-249	
100 150	650-830	305	8	7	-	200-249	
150 200	640-830	295	7	6	-	198-249	
200 250	640-830	285	7	6	-	198-249	

+N normalization is suggested. (L) = longitudinal (T) = tangential

Cold-drawn +C				Hot rolled – Peeled +SH			
size mm Testing at room temperature (longitudinal)				Testing at room temperature (longitudinal)			
from	to	R c)	Rp 0.2	A%	HB	R	Rp 0.2
		N/mm <sup>2</sup>	N/mm <sup>2</sup> min	min		N/mm <sup>2</sup>	N/mm <sup>2</sup> min

No indications from reference standards

EUROPE EN	ITALY UNI	CHINA GB	GERMANY DIN	FRANCE AFNOR	U.K. B.S.	RUSSIA GOST	USA AISI/SAE
E360	Fe 690		E360	A 70-2		E360	