



QUALITÄTS-, EDELBAU- UND BLANKSTAHL

kloeckner metals



GÜTEN QUALITÄTSSTAHL	40
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Güte	Wst.-Nr.	Norm		
S355J0	1.0553	DIN EN 10025-2	Allgemeine Baustähle	
S355J2 (+N)	1.0570	DIN EN 10025-3		
S355NL+N	1.0546	DIN EN 10250-2		
C15	1.0401	DIN 17210	Einsatzstähle	
C15E	1.1141	DIN EN 10084		
C15R	1.1140			
16MnCr5 (+A) (+FP) (+QT)	1.7131			
16MnCrS5 (+A) (+FP) (+QT)	1.7139			
16MnCrB5 (+A) (+FP) (+QT)	1.7160			
20MnCr5 (+A) (+FP) (+QT)	1.7147			
20MnCrS5 (+A) (+FP) (+QT)	1.7149			
18CrNiMo7-6 (+A) (+FP) (+QT)	1.6587			
C35	1.0501	DIN EN 10083-2		Vergütungsstähle – unlegiert
C35E	1.1181	DIN EN 10250-2		
C35R	1.1180			
C45 (+N)	1.0503			
C45E (+N)	1.1191			
C45R	1.1201			
C60	1.0601			
C60E	1.1221			
C60R	1.1223			
30CrNiMo8 (+QT)	1.6580	DIN EN 10083-3	Vergütungsstähle – legiert	
34CrNiMo6 (+QT)	1.6582	DIN EN 10250-3		
41Cr4	1.7035			
41CrS4	1.7039			
25CrMo4 (+QT)	1.7218			
25CrMoS4 (+QT)	1.7213			
34CrMo4 (+QT)	1.7220			
34CrMoS4 (+QT)	1.7226			
42CrMo4 (+QT)	1.7225			
42CrMoS4 (+QT)	1.7227			
50CrMo4 (+QT)	1.7228			
51CrV4 (+A) (+QT)	1.8159			
34CrAlMo5-10	1.8507	DIN EN 10085		Nitrierstähle
31CrMoV9 (+QT)	1.8519			
34CrAlNi7-10	1.8550			
C22.8 / P250GH / A105 / SA105 (+N)	1.0460	DIN EN 10273	warmfeste Stähle	
T/WSTE355 / P355 / A350LF2 (+QT)	1.0566	DIN EN 10222-4		
16Mo3 (+QT)	1.5415	DIN EN 10222-2		
13CrMo4-5 (+QT)	1.7335			
SA182F12 CL2				

UNSERE STÄHLE SIND GRUNDSÄTZLICH IN GEWALTETER ODER GESCHMIEDET VORGEDREHETER AUSFÜHRUNG (TOL. -0/+2 MM) LIEFERBAR.

DIE DOKUMENTATION BZW ABNAHME ERFOLGT GEMÄSS EN 10204/3.1 ODER 3.2 SÄMTLICHER KLASSIFIKATIONSGESELLSCHAFTEN WIE Z.B. DNV, LROS, ABS, TÜV.

ALS GRUNDLAGE FÜR DIE US PRÜFUNG DIENEN DIE EN 10308-3 QKL. 3 UND DIE EN 10228-3 QKL. 3



GEWICHTSTABELLE QUALITÄTSSTAHL FLACH*

Breite in mm	Dicke in mm																			
	5	6	7	8	10	12	14	15	16	20	25	30	35	40	45	50	55	60	70	80
10	0,394	0,472	0,551	0,630	0,787	0,944	1,102	1,181	1,259	1,574	1,968	2,282	2,755	3,148	3,542	3,935	4,328	4,722	5,509	6,296
15	0,590	0,708	0,826	0,944	1,181	1,417	1,763	1,771	1,889	2,361	2,951	3,542	4,132	4,722	5,312	5,903	6,493	7,082	8,264	9,444
20	0,787	0,944	1,102	1,259	1,574	1,889	2,204	2,361	2,518	3,148	3,935	4,722	5,509	6,296	7,083	7,870	8,657	9,444	11,020	12,590
25	0,984	1,181	1,377	1,259	1,968	2,361	2,755	2,951	3,148	3,933	4,919	5,903	6,886	7,870	8,854	9,838	10,820	11,810	13,770	15,740
30	1,180	1,417	1,653	1,889	2,361	2,833	3,305	3,541	3,777	4,722	5,902	7,083	8,264	9,444	10,630	11,810	12,880	14,170	16,520	18,890
35	1,375	1,653	1,928	2,204	2,755	3,305	3,856	4,132	4,407	5,509	6,860	8,263	9,641	11,020	12,390	13,770	15,150	16,530	19,270	22,030
40	1,574	1,888	2,203	2,518	3,148	3,778	4,407	4,722	5,037	6,296	7,870	9,444	11,020	12,590	14,170	15,740	17,310	18,870	22,040	25,180
45	1,771	2,115	2,479	2,833	3,542	4,250	4,958	5,312	5,667	7,083	8,855	10,630	12,390	14,180	15,940	17,700	19,470	21,250	24,790	28,330
50	1,968	2,361	2,755	3,148	3,935	4,723	5,509	5,903	6,296	7,870	9,838	11,810	13,770	15,740	17,700	19,680	21,640	23,610	27,540	31,480
55	2,164	2,597	3,030	3,463	4,328	5,194	6,060	6,493	6,926	8,657	10,820	12,880	15,150	17,310	19,470	21,640	23,810	25,970	30,300	34,630
60	2,361	2,833	3,305	3,778	4,722	5,666	6,611	7,082	7,555	9,444	11,810	14,170	16,530	18,870	21,250	23,610	25,970	28,330	33,050	37,780
65	2,558	3,069	3,581	4,096	5,116	6,139	7,162	7,673	8,185	10,230	12,780	15,350	17,890	20,460	23,010	25,580	28,130	30,690	35,810	40,920
70	2,755	3,307	3,856	4,407	5,509	6,611	7,713	8,264	8,814	11,020	13,770	16,520	19,270	22,040	24,790	27,550	30,300	33,050	38,560	44,070
75	2,951	3,542	4,131	4,722	5,903	7,083	8,263	8,854	9,444	11,800	14,750	17,710	20,650	23,610	26,570	29,510	32,460	35,410	41,320	47,220
80	3,148	3,778	4,407	5,037	6,296	7,555	8,815	9,444	10,070	12,590	15,740	18,890	22,030	25,180	28,330	31,480	34,630	37,780	44,070	50,370
85	3,345	4,014	4,682	5,352	6,690	8,028	9,365	10,030	10,710	13,380	16,720	20,070	23,410	26,760	30,100	33,450	36,790	40,140	46,830	53,520
90	3,542	4,250	4,958	5,666	7,083	8,500	9,918	10,630	11,330	14,170	17,710	21,250	24,790	28,330	31,780	35,410	38,960	42,500	49,580	56,660
100	3,935	4,722	5,509	6,296	7,870	9,444	11,020	11,800	12,590	15,740	19,670	23,610	27,540	31,480	35,410	39,350	43,280	47,220	55,090	62,960
110	4,329	5,295	6,060	6,925	8,657	10,390	12,120	12,990	13,850	17,310	21,640	25,970	30,300	34,630	38,960	43,280	47,610	51,940	60,600	69,260
120	4,722	5,666	6,611	7,555	9,444	11,330	13,220	14,170	15,110	18,880	23,610	28,330	33,050	37,780	42,500	47,220	51,940	56,660	66,110	75,550
130	5,116	6,139	7,162	8,185	10,230	12,280	14,330	15,350	16,370	20,460	25,580	30,690	35,810	40,920	46,040	51,150	56,270	61,390	71,620	81,850
140	5,509	6,611	7,714	8,816	11,020	13,220	15,430	16,520	17,630	22,040	27,550	33,050	38,560	44,070	49,580	55,090	60,600	66,110	77,130	88,140
150	5,902	7,083	8,263	9,444	11,810	14,170	16,530	17,710	18,890	23,610	29,510	35,420	41,320	47,220	53,120	59,020	64,930	70,830	82,630	94,440
160	6,296	7,555	8,814	10,070	12,590	15,110	17,620	18,880	20,150	25,180	31,480	37,780	44,070	50,700	56,670	62,960	69,290	75,550	88,140	100,740
170	6,690	8,028	9,366	10,700	13,380	16,050	18,720	20,070	21,410	26,760	33,450	40,140	46,830	53,520	60,210	66,890	73,580	80,270	93,650	107,030
180	7,083	8,500	9,916	11,330	14,170	17,000	19,840	21,250	22,660	28,330	35,420	42,500	49,590	56,670	63,750	70,830	77,910	85,000	99,160	113,330
190	7,477	8,970	10,360	11,960	14,950	17,940	20,940	22,430	23,920	29,900	37,380	44,860	52,340	59,810	67,290	74,760	82,240	89,720	104,670	119,620
200	7,780	9,336	10,892	12,448	15,560	18,672	21,784	23,340	24,896	31,120	38,900	46,680	54,460	62,240	70,020	77,800	87,136	93,360	108,920	124,480
210	8,169	9,803	11,437	13,070	16,338	19,606	22,873	24,507	26,141	32,676	40,845	49,014	57,183	65,352	73,521	81,690	91,493	98,028	114,360	130,700
220	8,558	10,270	11,981	13,693	17,116	18,828	23,962	25,674	27,386	34,232	42,790	51,348	59,906	68,464	77,022	85,580	95,850	102,690	119,810	136,920
230	8,947	10,360	12,526	14,315	17,894	19,683	25,052	26,841	28,630	35,788	44,735	53,682	62,629	71,576	80,523	89,470	100,200	107,360	125,250	143,150
240	9,336	11,203	13,070	14,938	18,672	20,539	26,141	28,008	29,875	37,344	46,680	56,016	65,352	74,688	84,024	93,360	104,560	112,030	130,700	149,370
250	9,725	11,670	13,615	15,560	19,450	21,395	27,230	29,175	31,120	38,900	48,625	58,350	68,075	77,800	87,525	97,250	108,920	116,700	136,150	155,600

* für Abmessungen mit LRS 3.2

LIEFERBAR IN HL UND VL, SONDERLÄNGEN AUF WUNSCH MÖGLICH



Güte	Wst.-Nr.	Norm	
S235JRC	1.0122	DIN EN 10277-2	allgemeine Stähle
S355J2C	1.0579		
C15	1.0401		
C35	1.0501		
C45	1.0503		
11SMn30	1.0715	DIN EN 10277-3	Automatenstähle
11SMnPb30	1.0718		
11SMn37	1.0736		
11SMnPb37	1.0737		
10S20	1.0721		
10SPb20	1.0722		
35S20	1.0726		
35SPb20	1.0756		
46S20	1.0727		
46SPb20	1.0757		
C15R	1.1140	DIN EN 10277-4	Einsatzstähle
16MnCr55 (+ QT)	1.7139		
20MnCr55 (+ QT)	1.7149		
C35E	1.1181	DIN EN 10277-5	Vergütungsstähle
C35R	1.1180		
C45E	1.1191		
C45R	1.1201		
C60E	1.1221		
C60R	1.1223		
42CrMoS4 (+ QT)	1.7227		

ÜBERSICHT DER HERSTELLUNGSVERFAHREN

EN-Bezeichnung	DIN-Bezeichnung	Zustand
+ C	K	Gezogen
+ SH	SH	Geschält
+ SL	(SL)	Geschliffen
+ PL	-	Poliert

WEITERE GÜTEN AUF ANFRAGE.

GEWICHTSTABELLE QUALITÄTSSTAHL RUND GEWALZT & GESCHMIEDET*

d	kg / m	d	kg / m	d	kg / m
8	0,395	105	67,969	380	890,226
10	0,617	110	74,597	390	937,697
12	0,888	115	81,532	400	986,400
14	1,208	120	88,776	410	1036,337
15	1,387	125	96,328	420	1087,506
16	1,578	130	104,189	430	1139,909
18	1,997	135	112,357	440	1193,544
20	2,466	140	120,834	450	1248,413
22	2,984	145	129,619	460	1304,514
24	3,551	150	138,713	470	1361,849
25	3,853	155	148,114	480	1420,416
26	4,168	160	157,824	490	1480,217
28	4,833	165	167,842	500	1541,250
30	5,549	170	178,169	510	1603,517
32	6,313	175	188,803	520	1667,016
35	7,552	180	199,746	530	1731,749
36	7,990	190	222,557	540	1797,714
38	8,902	200	246,600	550	1864,913
40	9,864	210	271,877	560	1933,344
42	10,875	220	298,386	570	2003,009
45	12,484	230	326,129	580	2073,906
48	14,204	240	355,104	590	2146,037
50	15,413	250	385,313	600	2219,400
52	16,670	260	416,754	620	2369,826
55	18,649	270	449,429	630	2446,889
60	22,194	280	483,336	650	2604,713
63	24,469	290	518,477	680	2850,696
65	26,047	300	554,850	700	3020,850
70	30,209	300	554,850	720	3195,936
73	32,853	310	592,457	750	3467,813
75	34,678	320	631,296	800	3945,600
80	39,456	330	671,369	850	4454,213
85	44,542	340	712,674	900	4993,650
90	49,937	350	755,213	1000	6165,000
95	55,639	360	798,984		
100	61,650	370	843,989		

* für Abmessungen mit LRS 3.2

GEWICHTSTABELLE VIERKANTSTAHL*

Abmessung	Gewicht (kg)
10	0,785
15	1,766
20	3,140
25	4,906
30	7,065
35	9,616
40	12,560
45	15,896
50	19,625
55	23,746
60	28,260
65	33,170
70	38,460
75	44,160
80	50,240
85	56,720
90	63,580
95	70,850
100	78,500
110	94,980
120	113,040
130	132,660
140	153,860
150	176,600
160	201,000
170	226,900
180	254,300
190	283,400
200	314,000

* für Abmessungen mit LRS 3.2

LIEFERBAR IN HL UND VL, SONDERLÄNGEN AUF WUNSCH MÖGLICH



BLANKER RUNDSTAHL

D	kg / m	D	kg / m
3	0,055	42	10,875
4	0,099	45	12,484
5	0,154	46	13,045
6	0,222	48	14,204
7	0,302	50	15,413
8	0,395	52	16,670
9	0,499	55	18,649
10	0,617	58	20,739
11	0,746	60	22,194
12	0,888	62	23,698
13	1,042	63	24,469
14	1,208	65	26,047
15	1,387	68	28,507
16	1,578	70	30,209
17	1,782	72	31,959
18	1,997	73	32,853
19	2,226	75	34,678
20	2,466	78	37,508
21	2,719	80	39,456
22	2,984	85	44,542
23	3,261	90	49,937
24	3,551	95	55,639
25	3,853	100	61,650
26	4,168	105	67,969
27	4,494	110	74,597
28	4,833	115	81,532
29	5,185	120	88,776
30	5,549	125	96,328
32	6,313	130	104,189
34	7,127	140	120,834
35	7,552	150	138,713
36	7,990	160	157,824
38	8,902	170	178,169
40	9,864	180	199,746

BLANKER VIERKANTSTAHL

A	kg / m
5	0,196
6	0,283
8	0,502
10	0,785
12	1,130
14	1,539
15	1,766
16	2,010
18	2,543
20	3,140
22	3,799
25	4,906
28	6,154
30	7,065
32	8,038
35	9,616
40	12,560
45	15,896
50	19,625
55	23,746
60	28,260
65	33,166
70	38,465
80	50,240
90	63,585
100	78,500
120	113,040

BLANKER SECHSKANTSTAHL

S	kg / m
5	0,170
6	0,245
7	0,333
8	0,435
9	0,551
10	0,680
11	0,823
12	0,979
13	1,149
14	1,333
16	1,741
17	1,965
18	2,203
19	2,455
22	3,291
24	3,917
27	4,957
30	6,120
32	6,963
36	8,813
38	9,819
41	11,431
46	14,389
50	17,000
55	20,570
60	24,480
65	28,730
70	33,320
75	38,250
80	43,520
85	49,130
90	55,080
95	61,370
100	68,000

BLANKER KEILSTAHL

A	B	kg / m	A	B	kg / m
4	4	0,126	18	11	1,556
5	5	0,197	18	18	2,547
6	4	0,189	20	8	1,258
6	6	0,283	20	10	1,572
7	7	0,385	20	12	1,886
8	5	0,314	20	20	3,144
8	7	0,440	22	14	2,421
8	8	0,503	22	22	3,804
10	6	0,472	25	14	2,751
10	8	0,629	25	25	4,913
10	10	0,786	28	16	3,521
12	6	0,566	30	30	7,074
12	8	0,755	32	18	4,527
12	10	0,943	36	20	5,659
12	12	1,132	40	22	6,917
14	6	0,660	45	25	8,843
14	9	0,990	45	45	15,917
14	14	1,541	50	28	11,004
15	15	1,769	56	32	14,085
16	7	0,880	63	32	15,846
16	10	1,258	70	36	19,807
16	12	1,509	80	40	25,152
16	16	2,012	90	45	31,833
18	7	0,990	100	50	39,300

DIVERSE SONDERPROFILE (T-, U-, HALBRUND ETC.) AUF ANFRAGE



FLACHSTAHL

Breite	2	3	4	5	6	8	10	12	15	16	18	20	25	30	32	35	40	50	60	80	
Stärke																					
8	0,126	0,189	0,252	0,315	0,378																
10	0,157	0,236	0,315	0,394	0,472	0,630															
12	0,189	0,283	0,378	0,472	0,567	0,756	0,944														
14	0,220	0,331	0,441	0,551	0,661	0,881	1,102	1,322													
15	0,236	0,354	0,472	0,590	0,708	0,944	1,181	1,417													
16	0,252	0,378	0,504	0,630	0,756	1,007	1,259	1,511													
18	0,283	0,425	0,567	0,708	0,850	1,133	1,417	1,700	2,125	2,267											
20	0,315	0,472	0,630	0,787	0,944	1,259	1,574	1,889	2,361	2,518	2,833										
22	0,346	0,519	0,693	0,866	1,039	1,385	1,731	2,078	2,597	2,770	3,117										
25	0,394	0,590	0,787	0,984	1,181	1,574	1,968	2,361	2,951	3,148	3,542	3,935									
28	0,441	0,661	0,881	1,102	1,322	1,763	2,204	2,644	3,305	3,526	3,966	4,407	5,509								
30	0,472	0,708	0,944	1,181	1,417	1,889	2,361	2,833	3,542	3,778	4,250	4,722	5,903								
32	0,504	0,756	1,007	1,259	1,511	2,015	2,518	3,022	3,778	4,029	4,533	5,037	6,296								
35	0,551	0,826	1,102	1,377	1,653	2,204	2,755	3,305	4,132	4,407	4,958	5,509	6,886	8,264							
40	0,630	0,944	1,259	1,574	1,889	2,518	3,148	3,778	4,722	5,037	5,666	6,296	7,870	9,444	10,074	11,018					
45	0,708	1,062	1,417	1,771	2,125	2,833	3,542	4,250	5,312	5,666	6,375	7,083	8,854	10,625	11,333	12,395	14,166				
50	0,787	1,181	1,574	1,968	2,361	3,148	3,935	4,722	5,903	6,296	7,083	7,870	9,838	11,805	12,592	13,773	15,740				
55		1,299	1,731	2,164	2,597	3,463	4,329	5,194	6,493	6,926	7,791	8,657	10,821	12,986	13,851	15,150	17,314				
60		1,417	1,889	2,361	2,833	3,778	4,722	5,666	7,083	7,555	8,500	9,444	11,805	14,166	15,110	16,527	18,888	23,610			
63		1,487	1,983	2,479	2,975	3,966	4,958	5,950	7,437	7,933	8,925	9,916	12,395	14,874	15,866	17,353	19,832	24,791			
65		1,535	2,046	2,558	3,069	4,092	5,116	6,139	7,673	8,185	9,208	10,231	12,789	15,347	16,370	17,904	20,462	25,578			
70		1,653	2,204	2,755	3,305	4,407	5,509	6,611	8,264	8,814	9,916	11,018	13,773	16,527	17,629	19,282	22,036	27,545	33,054		
75		1,771	2,361	2,951	3,542	4,722	5,903	7,083	8,854	9,444	10,625	11,805	14,756	17,708	18,888	20,659	23,610	29,513	35,415		
80		1,889	2,518	3,148	3,778	5,037	6,296	7,555	9,444	10,074	11,333	12,592	15,740	18,888	20,147	22,036	25,184	31,480	37,776		
90		2,125	2,833	3,542	4,250	5,666	7,083	8,500	10,625	11,333	12,749	14,166	17,708	21,249	22,666	24,791	28,332	35,415	42,498		
100		2,361	3,148	3,935	4,722	6,296	7,870	9,444	11,805	12,592	14,166	15,740	19,675	23,610	25,184	27,545	31,480	39,350	47,220	62,960	
110			3,463	4,329	5,194	6,926	8,657	10,388	12,986	13,851	15,583	17,314	21,643	25,971	27,702	30,300	34,628	43,285	51,942	69,256	
120			3,778	4,722	5,666	7,555	9,444	11,333	14,166	15,110	16,999	18,888	23,610	28,332	30,221	33,054	37,776	47,220	56,664	75,552	
125				4,919	5,903	7,870	9,838	11,805	14,756	15,740	17,708	19,675	24,594	29,513	31,480	34,431	39,350	49,188	59,025	78,700	
130				5,116	6,139	8,185	10,231	12,277	15,347	16,370	18,416	20,462	25,578	30,693	32,739	35,809	40,924	51,155	61,386	81,848	
140				5,509	6,611	8,814	11,018	13,222	16,527	17,629	19,832	22,036	27,545	33,054	35,258	38,563	44,072	55,090	66,108	88,144	
150				5,903	7,083	9,444	11,805	14,166	17,708	18,888	21,249	23,610	29,513	35,415	37,776	41,318	47,220	59,025	70,830	94,440	
160				6,296	7,555	10,074	12,592	15,110	18,888	20,147	22,666	25,184	31,480	37,776	40,294	44,072	50,368	62,960	75,552	100,736	
180				7,083	8,500	11,333	14,166	16,999	21,249	22,666	25,499	28,332	35,415	42,498	45,331	49,581	56,664	70,830	84,996	113,328	
200				7,870	9,444	12,592	15,740	18,888	23,610	25,184	28,332	31,480	39,350	47,220	50,368	55,090	62,960	78,700	94,440	125,920	
220						13,851	17,314	20,777	25,971	27,702	31,165	34,628	43,285	51,942	55,405	60,599	69,256	86,570	103,884	138,512	
250						15,740	19,675	23,610	29,513	31,480	35,415	39,350	49,188	59,025	62,960	68,863	78,700	98,375	118,050	157,400	
300							23,610	28,332	35,415	37,776	42,498	47,220	59,025	70,830	75,552	82,635	94,440	118,050	141,660	188,880	
350							27,545	33,054	41,318	44,072	49,581	55,090	68,863	82,635	88,144	96,408	110,180	137,725	165,270	220,360	
400							31,480	37,776	47,220	50,368	56,664	62,960	78,700	94,440	100,736	110,180	125,920	157,400	188,880	251,840	



WINKELSTAHL

Gewichtstabelle für blanken Winkelstahl				
Profil	a	b	s	kg / m
L	10	10	2	0,30
L	12	12	2	0,35
L	12	12	3	0,05
L	15	15	2	0,44
L	15	15	3	0,64
L	15	15	4	0,80
L	20	20	2	0,60
L	20	20	3	0,87
L	20	20	4	1,14
L	20	20	5	1,38
L	25	25	2	0,75
L	25	25	3	1,11
L	25	25	4	1,44
L	25	25	5	1,77
L	30	30	2	0,91
L	30	30	3	1,34
L	30	30	4	1,76
L	30	30	5	2,18
L	32	32	3	1,45
L	35	35	3	1,58
L	35	35	4	2,07
L	35	35	5	2,55
L	40	40	3	1,81
L	40	40	4	2,39
L	40	40	5	2,94
L	40	40	6	3,48
L	45	45	4	2,70
L	45	45	5	3,34
L	45	45	6	4,24
L	50	50	4	3,00
L	50	50	5	3,73
L	50	50	6	4,47
L	60	60	5	4,57
L	60	60	6	5,42
L	70	70	8	8,30
L	70	70	10	11,00
L	80	80	6	7,54
L	80	80	8	9,66
L	80	80	10	11,80
L	100	100	8	12,20
L	100	100	10	14,92
L	120	120	12	21,50
L	150	150	12	27,00

Gewichtstabelle für blanken Winkelstahl				
Profil	a	b	s	kg / m
L	15	10	3	0,52
L	20	10	3	0,64
L	20	15	3	0,75
L	25	15	3	0,87
L	30	15	3	1,00
L	30	20	3	1,11
L	30	20	4	1,44
L	30	20	5	1,96
L	40	20	3	1,34
L	40	20	4	1,76
L	40	20	5	2,18
L	45	30	4	2,23
L	45	30	5	2,77
L	45	30	6	3,53
L	50	30	5	2,94
L	50	30	6	3,77
L	50	40	5	3,53
L	60	30	5	3,37
L	60	30	6	4,24
L	60	40	5	3,75
L	60	40	6	4,71
L	80	40	6	5,41
L	80	40	8	7,00
L	100	50	10	11,70
L	130	65	10	14,53
L	150	75	12	20,00

Kloeckner Metals Germany GmbH

Zentrale

Am Silberpalais 1

D-47057 Duisburg

Telefon +49 (0) 203 307-0

Telefax +49 (0) 203 307-5245

E-Mail kontakt@kloeckner.com

www.kloecknerdeutschland.de

Ihr Ansprechpartner:



Technische Änderungen und Irrtum vorbehalten.
Gestaltung: www.optimat.de

