



Cold Formed **Steel Profiles**



Dem
Steel

www.demsteel.com



Environmentally Friendly Steel Structures!



Dem Steel is a brand within Demonte Prefabrik that has adopted a mission of providing comprehensive solutions in the field of steel and light steel structures. Dem Steel offers domestic and international services with expert team, prioritizing customer satisfaction through a professional approach and experience. The company offers quality products by cooperating with leading raw material suppliers in the sector. Its assembly and disassembly operations, indoor installations, painting operations, after-sales services, and customer-oriented approach contribute to its strong position in the sector.



Dem
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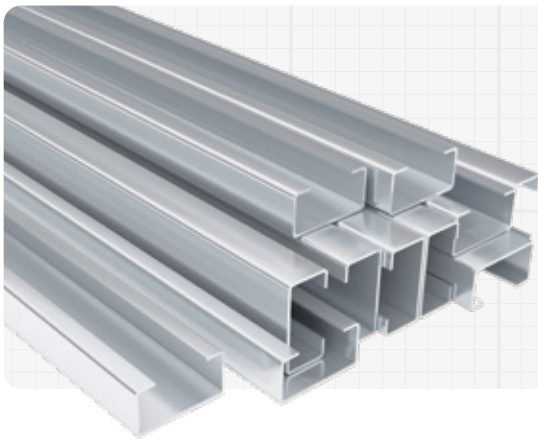
Demonte
Prefabrik

Cold Formed **Steel Profiles**

(CFS)

What are Cold Formed Steel Profiles?

Cold Formed Steel Profiles are products obtained by producing and sizing steel coils with various coating features using roll forming, pressing, and punching methods in special dimensions. In the steel construction industry, both structural and non-structural parts are created using thin steel sheets.



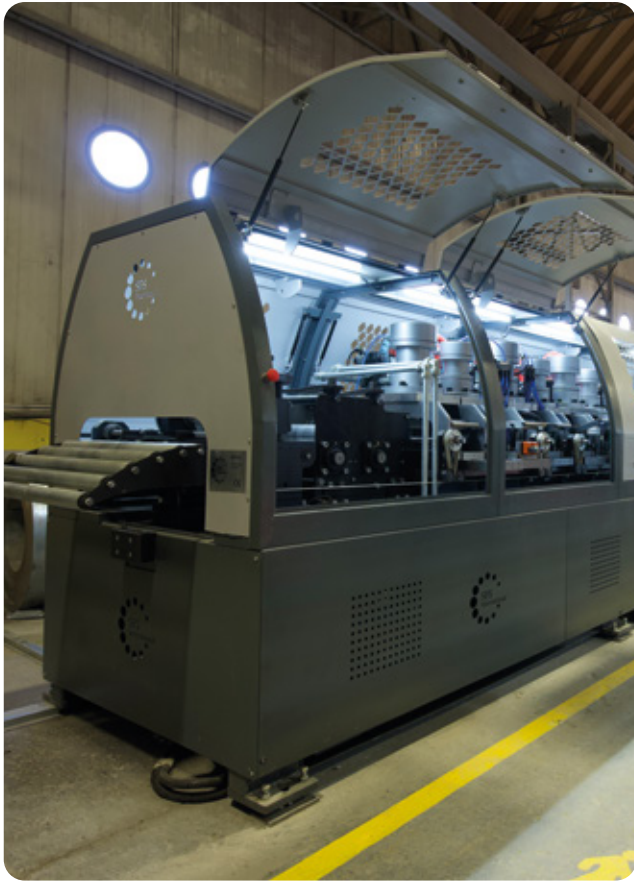
Fast, flexible, sustainable
solution.



Field of Application

Cold formed steel profiles have a wide range of applications:

- Buildings
- Steel Structures
- Solar Energy Constructions
- Bridges
- Garages
- Vehicle Parts
- Highway Barriers
- Power Transmission Towers



Production and Strength

Cold formed steel profiles differ in many aspects from other steel construction materials, such as hot-rolled steel. Production is carried out at room temperature using roll forming or pressing.

Protection and Durability

For the protection of cold formed steel profiles, galvanization with zinc is generally preferred. For different projects, methods such as magnesium-aluminum coating and painting can also be used. These processes provide a high level of protection against corrosion

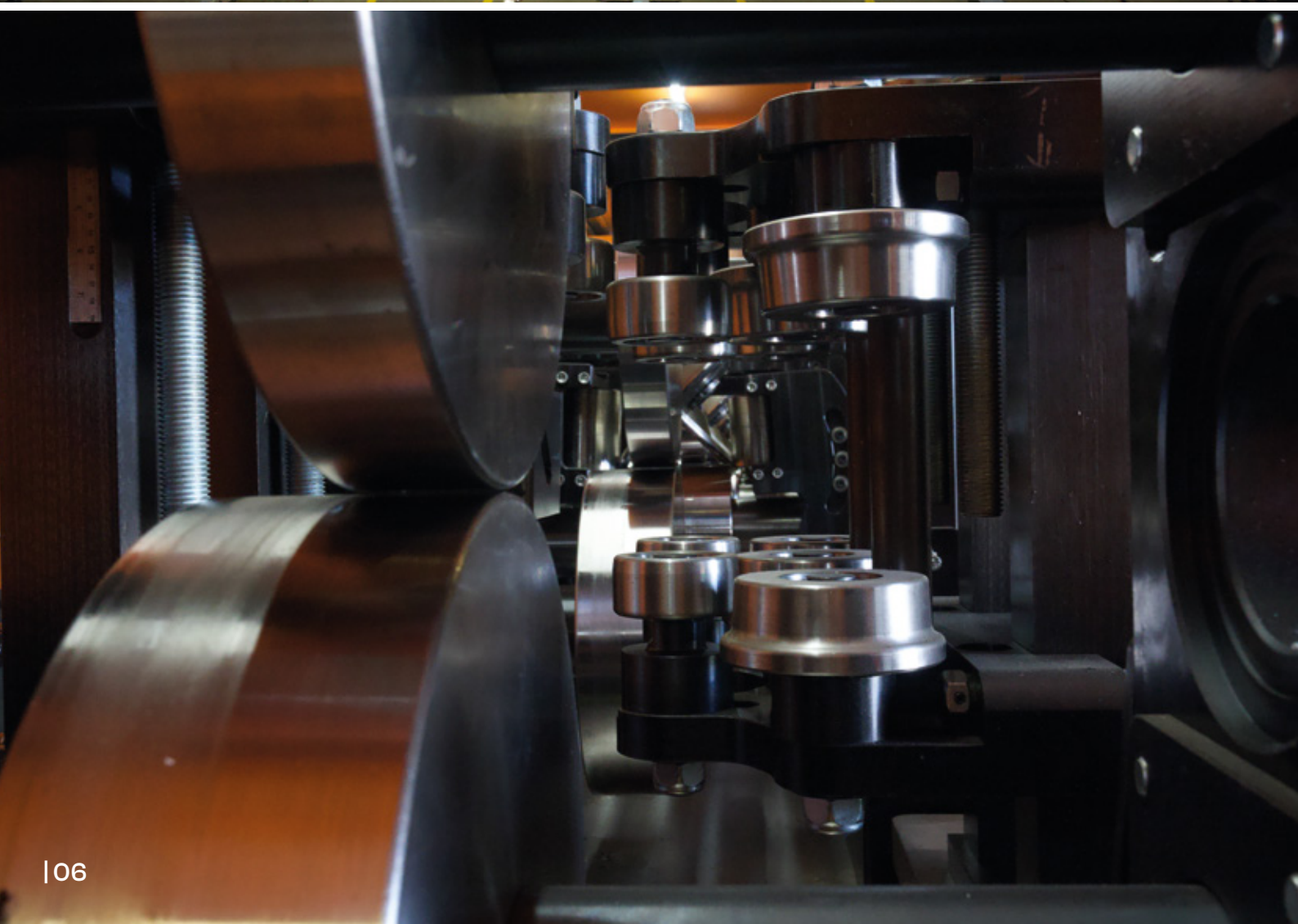
Advantages

Cold formed steel profiles have many advantages:

- Lightweight
- High strength and rigidity
- Easy assembly and installation
- Compatible with traditional connection methods (riveting, bolting, or welding)
- Manufacturing process that does not require molds
- Achieving desired shapes and lengths through prefabrication
- Low transportation cost
- Easy recyclability
- Suitability for mass production
- CNC-controlled production

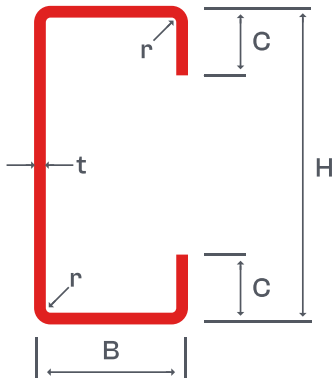


Dem Steel brings together all these features and advantages to offer its customers superior quality and durable cold formed steel profiles. With its quality and customer satisfaction-focused approach, it continues to make a difference in the industry.





C Profile



	Min	Max
H	100	400
B	40	130
C	15	35
t	1,00	3,50

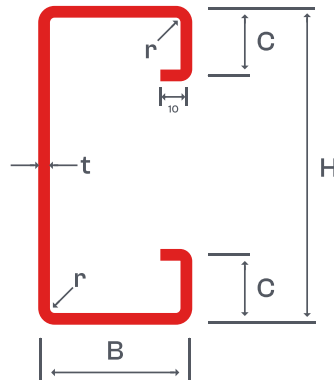
C Profile

Section Properties

C Profile	H	B	t	C	Stripe Size	Weight	Arena	Axis of Flexure (x-x)			Axis of Flexure (y-y)			Distance to Axis		
	mm	mm	mm	mm	mm	kg-m	F cm ²	I _{xeff} (cm ⁴)	W _{exff} (cm ³)	r(cm)	I _{yeff} (cm ⁴)	W _{eyff} (cm ³)	r(cm)	ex(cm)	ey(cm)	
C100-15	100	40	1,50	15	200	2,36	3,00	45,48	9,10	3,89	7,19	2,56	1,55	1,39	5,00	
C100-20	100	42	2,00	15	200	3,14	4,00	60,69	12,14	3,90	10,09	3,56	1,59	1,46	5,00	
C100-25	100	44	2,50	15	200	3,93	5,00	75,91	15,18	3,90	13,27	4,63	1,63	1,53	5,00	
C100-30	100	46	3,00	15	200	4,69	5,97	90,32	18,06	3,89	16,28	5,57	1,65	1,58	5,00	
C150-15	150	65	1,50	16	300	3,54	4,50	151,90	19,61	5,81	23,07	5,02	2,26	1,90	7,50	
C150-20	150	65	2,00	18	300	4,72	6,00	212,17	28,29	5,95	34,26	7,75	2,39	2,08	7,50	
C150-25	150	65	2,50	19	300	5,90	7,50	262,71	35,03	5,92	42,68	9,72	2,39	2,11	7,50	
C150-30	150	65	3,00	21	300	7,07	9,00	314,24	41,90	5,91	52,10	12,03	2,41	2,17	7,50	
C200-15	200	85	1,50	20	400	4,72	6,00	333,78	31,70	7,46	53,55	9,02	2,99	2,57	10,00	
C200-20	200	85	2,00	22	400	6,29	8,00	489,36	47,76	7,83	74,15	12,48	3,04	2,56	10,00	
C200-25	200	85	2,50	24	400	7,86	10,00	630,28	63,03	7,94	98,86	17,06	3,14	2,71	10,00	
C200-30	200	85	3,00	26	400	9,43	12,00	754,60	75,46	7,93	120,15	20,95	3,16	2,76	10,00	
C250-20	250	65	2,00	17	400	6,29	8,00	666,20	53,30	9,13	39,41	8,12	2,22	1,65	12,50	
C250-25	250	65	2,50	19	400	7,86	10,00	875,85	70,07	9,36	50,00	10,24	2,24	1,62	12,50	
C250-30	250	65	3,00	21	400	9,43	12,00	1055,80	84,46	9,38	61,27	12,67	2,26	1,67	12,50	
C250-35	250	65	3,50	23	400	11,00	14,00	1217,72	97,42	9,32	70,90	14,01	2,31	1,69	12,50	
C300-20	300	90	2,00	18	500	7,86	10,00	1099,01	69,94	10,48	81,10	11,83	2,85	2,15	15,00	
C300-25	300	90	2,50	20	500	9,83	12,50	1518,60	99,41	11,02	106,06	15,53	2,91	2,17	15,00	
C300-30	300	90	3,00	22	500	11,79	15,00	1932,72	127,58	11,35	137,13	20,22	3,02	2,22	15,00	
C300-35	300	90	3,50	24	500	13,75	17,33	2242,28	149,49	11,43	161,58	23,91	3,05	2,24	15,00	
C400-20	400	90	2,00	17	600	9,43	12,00	1986,36	95,27	12,87	85,37	12,04	2,67	1,91	20,00	
C400-25	400	90	2,50	19	600	11,79	15,00	2750,52	135,28	13,54	111,77	15,82	2,73	1,93	20,00	
C400-30	400	90	3,00	21	600	14,15	18,00	3528,66	174,87	14,00	144,73	20,59	2,84	1,97	20,00	
C400-35	400	90	3,50	23	600	16,50	20,83	4089,07	204,45	14,34	174,06	24,50	2,88	1,90	20,00	

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C Plus Profile



	Min	Max
H	150	250
B	50	85
C	15	30
t	1,50	3,00

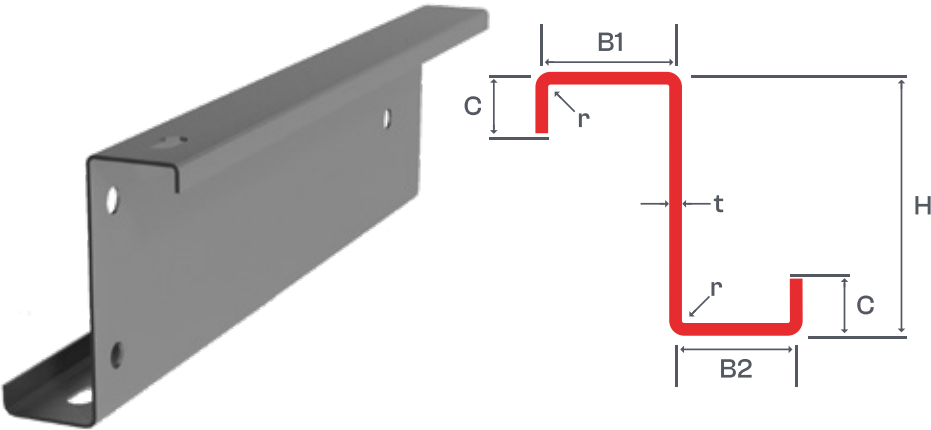
C Plus Profile Section Properties

C Plus Profile	H	B	t	C	A	Stripe Size	Weight	Arena	Axis of Flexure (x-x)			Axis of Flexure (y-y)			Distance to Axis		
	mm	mm	mm	mm	mm	mm	kg-m	F cm ²	I _{xeff} (cm ⁴)	W _{exff} (cm ³)	r(cm)	I _{yeff} (cm ⁴)	W _{eyff} (cm ³)	r(cm)	ex(cm)	ey(cm)	
C+150-15	150	65	1,50	25	10	333	3,92	4,60	161,00	21,60	5,83	28,94	5,75	2,28	1,93	7,50	
C+150-20	150	68	2,00	25	10	333	5,23	6,26	219,03	29,20	5,97	41,82	8,26	2,43	2,18	7,50	
C+150-25	150	71	2,50	25	10	333	6,54	7,92	277,54	37,01	5,93	56,50	10,12	2,44	2,21	7,50	
C+150-30	150	73	3,00	25	10	333	7,85	9,55	334,25	44,57	5,92	70,71	12,78	2,46	2,25	7,50	
C+200-15	200	70	1,50	30	10	400	4,72	6,00	338,96	33,89	7,52	43,51	9,59	2,69	2,37	10,00	
C+200-20	200	73	2,00	30	10	400	6,29	8,00	481,05	48,11	7,75	64,10	13,31	2,83	2,48	10,00	
C+200-25	200	76	2,50	30	10	400	7,86	10,00	607,17	60,73	7,79	85,87	17,15	2,93	2,59	10,00	
C+200-30	200	78	3,00	30	10	400	9,43	12,00	729,93	72,93	7,80	106,84	20,79	2,98	2,66	10,00	
C+250-20	250	73	2,00	30	10	450	7,07	8,66	738,89	62,71	9,62	64,03	15,80	2,70	2,04	10,00	
C+250-25	250	75	2,50	30	10	450	8,84	12,00	938,87	78,71	9,85	83,42	20,57	2,73	2,07	10,00	
C+250-30	250	78	3,00	30	10	450	10,61	15,00	1194,56	95,56	9,93	107,54	25,81	2,85	2,16	10,00	

The materials listed in the table are prepared based on a yield strength of 235 N/mm. For calculations based on different steel grades, please consult our Technical Office.

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Z Profile



	Min	Max
H	100	400
B	40	130
C	15	35
t	1,00	3,50

Z Profile

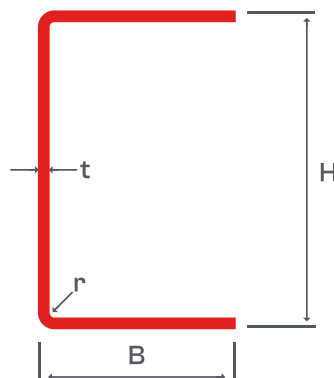
Section Properties

Z Profile	H	B1	B2	t	C	Stripe Size	Weight	Arena	Axis of Flexure (x-x)			Axis of Flexure (y-y)			Distance to Axis		
	mm	mm	mm	mm	mm	mm	kg-m	F cm ²	I _{xeff} (cm ⁴)	W _{exff} (cm ³)	r(cm)	I _{yeff} (cm ⁴)	W _{eyff} (cm ³)	r(cm)	ex(cm)	ey(cm)	
Z100-15	100	55	60	1,50	19	240	2,83	3,60	58,30	11,42	4,02	33,08	5,73	3,03	5,78	5,10	
Z100-20	100	55	61	2,00	20	240	3,77	4,80	77,04	15,04	4,01	45,34	7,78	3,07	5,83	5,12	
Z100-25	100	55	62	2,50	21	240	4,72	6,00	95,44	18,56	3,99	58,23	9,90	3,12	5,88	5,14	
Z100-30	100	55	64	3,00	21	240	5,66	7,20	114,25	22,13	3,98	73,00	12,10	3,18	6,03	5,16	
Z150-15	150	61	65	1,50	18	300	3,54	4,50	154,73	20,13	5,86	38,63	6,18	2,93	6,25	7,60	
Z150-20	150	61	67	2,00	19	300	4,72	6,00	209,85	27,43	5,91	57,14	8,85	3,09	6,46	7,65	
Z150-25	150	62	69	2,50	19	300	5,90	7,50	262,09	34,16	5,91	74,33	11,24	3,15	6,61	7,67	
Z150-30	150	62	70	3,00	20	300	7,07	9,00	313,09	40,68	5,90	91,55	13,73	3,19	6,67	7,70	
Z200-15	200	80	86	1,50	23	400	4,72	6,00	339,11	32,27	7,52	89,31	10,91	3,86	8,19	10,15	
Z200-20	200	80	87	2,00	24	400	6,29	8,00	495,58	48,32	7,87	125,24	14,98	3,96	8,36	10,17	
Z200-25	200	80	88	2,50	25	400	7,86	10,00	625,01	61,28	7,91	165,58	19,50	4,07	8,49	10,20	
Z200-30	200	81	89	3,00	26	400	9,43	12,00	750,53	73,60	7,91	205,33	23,95	4,14	8,57	10,20	
Z250-20	250	60	66	2,00	20	400	6,29	8,00	658,36	51,86	9,07	56,35	8,82	2,65	6,39	12,69	
Z250-25	250	60	68	2,50	21	400	7,86	10,00	873,44	68,51	9,35	74,02	11,33	2,72	6,53	12,75	
Z250-30	250	60	69	3,00	22	400	9,43	12,00	1050,33	82,20	9,36	91,11	13,82	2,76	6,59	12,78	
Z250-35	250	62	73	3,50	22	400	11,00	15,00	1224,72	97,98	9,37	97,98	15,12	2,77	6,62	12,80	
Z300-20	300	85	91	2,00	20	500	7,86	10,00	1114,09	70,90	10,56	119,69	13,86	3,46	8,63	15,18	
Z300-25	300	85	93	2,50	21	500	9,83	12,50	1525,82	98,69	11,05	164,36	18,48	3,63	8,89	15,24	
Z300-30	300	85	94	3,00	22	500	11,79	15,00	1952,96	127,79	11,41	216,39	23,84	3,80	9,08	15,27	
Z300-35	300	85	96	3,50	22	500	13,75	15,00	3276,48	187,23	11,75	259,21	27,58	3,96	9,52	15,29	
Z400-20	400	83	90	2,00	21	600	9,43	12,00	2031,52	97,88	13,01	119,71	13,93	3,16	8,60	20,23	
Z400-25	400	83	91	2,50	22	600	11,79	15,00	2766,38	135,22	13,58	162,67	18,55	3,29	8,77	20,27	
Z400-30	400	83	93	3,00	23	600	14,15	18,00	3556,39	174,75	14,06	212,88	23,69	3,44	8,99	20,33	
Z400-35	400	83	95	3,50	23	600	16,50	20,00	4198,05	209,90	14,82	261,12	28,02	3,46	9,72	20,45	

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U Profile



	Min	Max
H	100	400
B	40	130
t	1,50	3,50

U Profile Section Properties

The U Profile is commonly used as an intermediate partition or intermediate purlin in buildings.

The U Profile can be produced in any desired length and with an unlimited number of holes from any point using fully automated machinery and continuous pull-off lines.

With our static calculation program, we can perform custom static calculations for each project to select the most suitable material. This ensures optimal material use for cost efficiency and prevents additional loads on the building.

U Profile	H	B	t	Stripe Size	Weight	Arena	Axis of Flexure (x-x)			Axis of Flexure (y-y)			Distance to Axis		
	mm	mm	mm	mm	kg-m	F cm ²	I _{xeff} (cm ⁴)	W _{exff} (cm ³)	r(cm)	I _{yeff} (cm ⁴)	W _{eyff} (cm ³)	r(cm)	ex(cm)	ey(cm)	
U100-15	100	53	1,50	200	2,36	3,00	49,53	9,91	4,06	8,64	2,24	1,70	1,45	5,00	
U100-20	100	54	2,00	200	3,14	4,00	65,86	13,17	4,06	11,90	3,07	1,73	1,52	5,00	
U100-25	100	55	2,50	200	3,93	5,00	82,13	16,43	4,05	15,36	3,92	1,75	1,58	5,00	
U100-30	100	56	3,00	200	4,69	6,00	98,33	19,67	4,05	19,02	4,82	1,78	1,65	5,00	
U150-15	150	53	1,50	250	2,95	3,75	125,47	16,73	5,78	9,87	2,37	1,61	1,17	7,50	
U150-20	150	54	2,00	250	3,93	5,00	166,85	22,25	5,78	13,51	3,24	1,64	1,23	7,50	
U150-25	150	55	2,50	250	4,91	6,25	208,04	27,74	5,77	17,49	4,16	1,67	1,29	7,50	
U150-30	150	56	3,00	250	5,90	7,50	249,05	33,21	5,76	21,73	5,11	1,70	1,35	7,50	
U200-20	200	54	2,00	300	4,72	6,00	329,87	32,99	7,41	14,58	3,34	1,56	1,04	10,00	
U200-25	200	55	2,50	300	5,90	7,50	411,34	41,13	7,41	18,91	4,29	1,59	1,09	10,00	
U200-30	200	56	3,00	300	7,07	9,00	492,47	49,25	7,40	23,54	5,29	1,62	1,15	10,00	
U250-20	200	79	2,00	400	6,29	8,00	723,67	57,89	9,51	44,71	7,31	2,36	1,63	12,50	
U250-25	250	80	2,50	400	7,86	10,00	903,00	72,24	9,50	57,27	9,07	2,39	1,68	12,50	
U250-30	250	81	3,00	400	9,43	12,00	1081,75	86,54	9,49	70,42	11,07	2,42	1,74	12,50	
U250-35	250	83	3,50	400	11,00	13,64	1198,57	95,98	9,53	89,44	14,26	2,37	1,73	12,50	
U300-20	300	104	2,00	500	7,86	7,73	1306,02	87,07	11,52	90,21	11,42	3,03	2,10	15,00	
U300-25	300	105	2,50	500	9,83	9,62	1618,92	107,93	11,50	111,82	14,20	3,02	2,12	15,00	
U300-30	300	106	3,00	500	11,79	11,50	1926,45	128,43	11,47	133,05	16,95	3,01	2,15	15,00	
U300-35	300	108	3,50	500	13,73	13,31	2155,88	142,12	11,45	155,66	18,64	3,00	2,10	15,00	
U400-20	400	"104	"2,00	"600	"9,43	"11,87	"2589,17	"129,80	"13,25	"97,44	"13,12	"2,88	"2,17	"18,00	
U400-25	400	105	2,50	600	11,79	14,77	3217,32	160,87	13,22	120,89	14,76	2,86	2,19	18,00	
U400-30	400	"106	"3,00	"600	"14,14	"17,66	"3826,54	"191,33	"13,20	"141,63	"17,11	"2,83	"2,20	"18,00	
U400-35	400	108	3,50	600	16,50	20,51	4424,51	221,23	13,19	161,27	19,76	2,81	2,22	18,00	

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