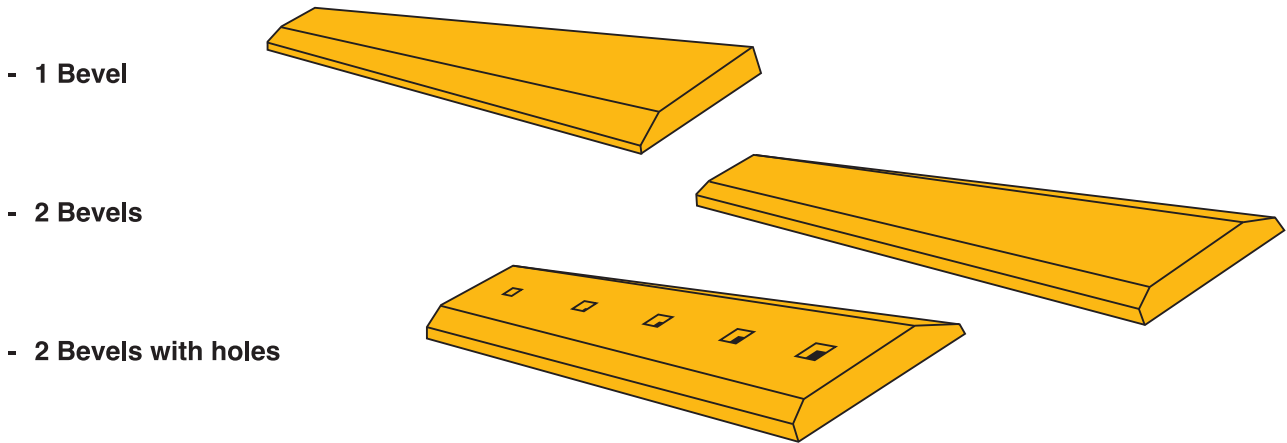




**T O U G H
C O M P O N E N T S**

THROUGH HARDENED 6 Mt. (19') LONG CHAMFERED PROFILES



- 1 Bevel

- 2 Bevels

- 2 Bevels with holes

Important reasons why to choose 6 mt long profiles:

- they have the very **same quality as the cut-to-size cutting edges** i.e. 460÷520 HB;
- **they allow you**, with a reduced number of different sized profiles, **to satisfy all demands** coming from your customers;
- **they avoid you to stock a large quantity** of different already cut-to-size **Bulldozer's Cutting Edges**, i.e. **choose the correct size and holed 6 mt long bar**, cut it to the correct length and you are ready to satisfy your customer's requirement;
- **they are already chamfered, holed** (the two bevels profiles) **and heat treated** (500 or 375 HB), therefore, almost ready to meet your customer's need;
- on request they can be supplied also **without heat treatment**, in this case the hardness of the bars is max. 280 HB.

TECHNICAL INFORMATION

Material Specification



30MnCrB5H



30MnCrB5H

Mechanical Properties

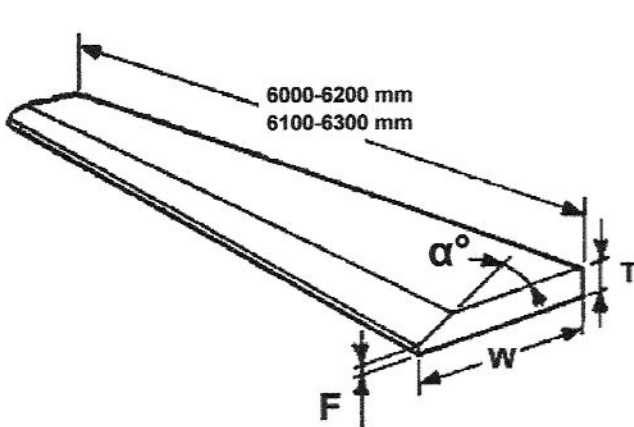
Surface Hardness	HB	340÷400	460÷520
Tensile Strength	MPa	1150 min.	1530 min.
Yield Strength	MPa	860 min.	1210 min.
Elongation	%	11 min.	7 min.
Impact Strength (DVM) to 20°C	J/cm ²	55 min.	40 min.

ONE BEVEL PROFILES

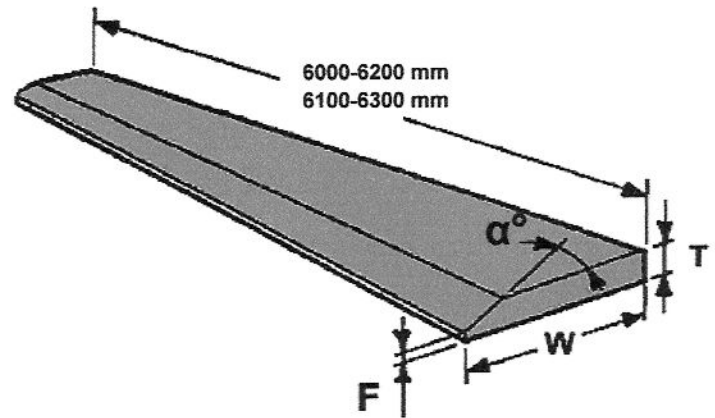
6,20 m (21') LONG



**T O U G H
C O M P O N E N T S**



**Without Heat Treatment
Hardness 220-280 HB**



**Trough Hardened to
360-420 HB & 460-520 HB**

DURO 200 220 - 280 HB	DURO 400 360 - 420 HB	DURO 500 460 - 520 HB	Dimensions				Weight kg - m
			W	T	F	α°	
MTM Part Number			Millimeters				
051.T12.60S	051.T12.60H	051.T12.60B	110	12	3	23°	9,9
051.T16.60S	051.T16.60H	051.T16.60B	110	16	7	23°	13,2
051.D16.60S	051.D16.60H	051.D16.60B	150	16	6	23°	18
051.D20.60S	051.D20.60H	051.D20.60B	150	20	5	23°	22,5
051.D25.60S	051.D25.60H	051.D25.60B	150	25	10	26,5	28,1
051.F16.60S	051.F16.60H	051.F16.60B*	200	16	5	23°	24,0
051.F20.60S	051.F20.60H	051.F20.60B	200	20	6	23°	30,0
051.F25.60S	051.F25.60H	051.F25.60B	200	25	10	23°	37,5
051.G25.60S	051.G25.60H	051.G25.60B	250	25	5	23°	46,9
051.G30.60S	051.G30.60H	051.G30.60B	250	30	10	23°	56,3
051.G40.60S	051.G40.60H	051.G40.60B*	250	40	10	23°	75
051.H32.60S	051.H32.60H	051.H32.60B ▲	270	32	11	23°	64,8
051.H35.60S	051.H35.60H	051.H35.60B ▲	270	35	13	23°	70,8

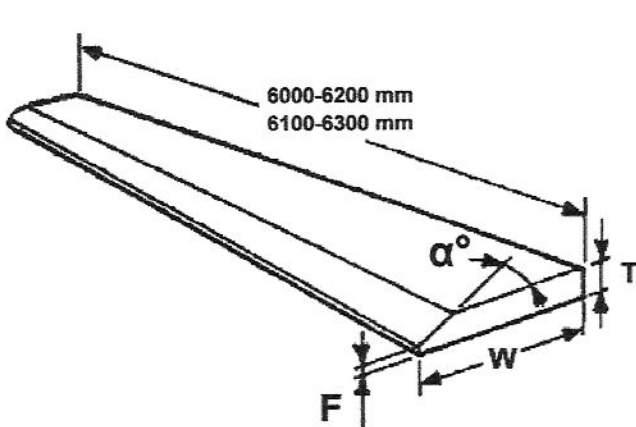
On request we can supply Profiles having dimensions different from the ones listed here above as special execution.

ONE BEVEL PROFILES

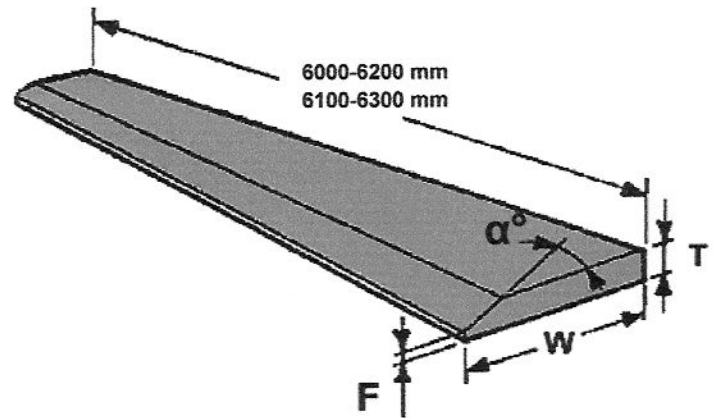
6,20 m (21') LONG



**TOUGH
COMPONENTS**



**Without Heat Treatment
Hardness 220-280 HB**



**Trough Hardened to
360-420 HB & 460-520 HB**

DURO 200 220 - 280 HB	DURO 400 360 - 420 HB	DURO 500 460 - 520 HB	Dimensions				Weight kg - m
			W	T	F	α°	
MTM Part Number			Millimeters				
051.V25.60S*	051.V25.60H*	051.V25.60B* ▲	280	25	7	23°	52,5
051.V32.60S*	051.V32.60H*	051.V32.60B* ▲	280	32	11	23°	67,2
051.I25.60S	051.I25.60H	051.I25.60B* ▲	300	25	7	23°	56,2
051.I30.60S	051.I30.60H	051.I30.60B ▲	300	30	8	23°	67,5
051.I35.60S	051.I35.60H	051.I35.60B ▲	300	35	13	23°	78,8
051.I40.60S	051.I40.60H	051.I40.60B ▲	300	40	18	23°	90,0
051.I45.60S	051.I45.60H	051.I45.60B* ▲	300	45	18	23°	101,2
051.K30.60S	051.K30.60H	051.K30.60B* ▲	360	30	8	23°	81,0
051.L30.60S	051.L30.60H	051.L30.60B* ▲	406	30	8	23°	91,3
051.L35.60S	051.L35.60H	051.L35.60B* ▲	406	35	13	25°	106,5
051.L40.60S	051.L40.60H	051.L40.60B* ▲	406	40	13	25°	121,7
051.L45.60S	051.L45.60H	051.L45.60B* ▲	406	45	18	25°	136,9
051.L50.60S	051.L50.60H	051.L50.60B* ▲	406	50	23	25°	152,0
051.L60.60S	051.L60.60H	051.L60.60B* ▲	406	60	18	30	182,7

On request we can supply Profiles having dimensions different from the ones listed here above as special execution.

ONE BEVEL PROFILES



**T O U G H
C O M P O N E N T S**

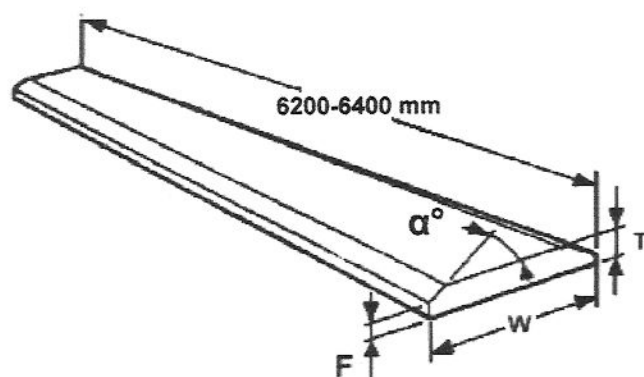
Lengths	L	=	Up to a thickness of 28 mm	6000 - 6200 mm
			From a thickness of 30 mm and up	6100 - 6300 mm
Tolerances	W	=	From 110 to 200 mm	+ 3.2 / - 2.4
			From 201 mm up	+ / - 3.2
	T	=	From 12 to 25 mm	+ / - 1
			From 26 mm up	+ / - 1.2
	F	=	From 12 to 25 mm	+ / - 1
			From 26 mm up	+ / - 1.2
	L	=	- 0 / + 200	
Chamfering		=	Nose : + / - 1 mm up to a thickness of 25 mm + / - 1,5 mm > 25 mm a : + / - 1°	
Transverse Bow		=	0.25 % of L	
Longitudinal Bow		=	0.7 % of L (max 20 mm)	
Carbon Equivalent		:	DURO 400 CE = 0.48 ÷ 0.58 DURO 500 CE = 0.57 ÷ 0.69	
Gas Cutting		:	DURO 400 - May be carried out at room temperature at the lowest DURO 500 - Pre-heat the area that must be cut to a temperature range of 150 - 200° C in order to avoid cracks	
Welding		:	DURO 400 - It is possible to weld it without pre-heating, in any case the bar temperature must be at least at room temperature DURO 500 - It is advisable to pre-heat at least at 150 - 200° C, particularly for thickness over 30 mm	
Electrodes		:	Use filler metals of basic type with low hydrogen content	
Notes		:	Bars cut to 3 mt (10') at no charge Bars cut to size not possible Bars of not standard production - Price on request * : These bars have the bevel made by gas cutting and they have not the rear bevel ▲ : It is suggested to use DURO 400 and not DURO 500 for these dimensions because they give more security against breaking	

TWO BEVELS PROFILES

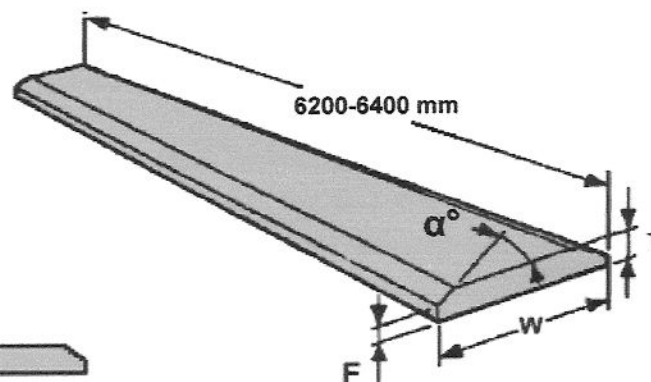
WITHOUT HOLES 6,45 m (21') LONG



**T O U G H
C O M P O N E N T S**



Without Heat Treatment
Hardness 220-280 HB



Trough Hardened to
360-420 HB & 460-520 HB

DURO 200 220 - 280 HB	DURO 400 360 - 420 HB	DURO 500 460 - 520 HB	Dimensions				Weight kg - m
			W	T	F	α°	
MTM Part Number			Millimeters				
052.C16.60S	052.C16.60H	052.C16.60B	120	15	5	25	13,5
052.D16.60S	052.D16.60H	052.D16.60B	152	16	5	25°	18,2
052.D20.60S	052.D20.60H	052.D20.60B	152	19	9	25°	21,7
052.M16.60S*	052.M16.60H*	052.M16.60B*	165	16	5	25°	19,8
052.E20.60S*	052.E20.60H*	052.E20.60B*	180	20	9	25	27,0
052.F16.60S	052.F16.60H	052.F16.60B	203	16	5	25°	24,4
052.F20.60S	052.F20.60H	052.F20.60B	203	20	8	25°	30,5
052.F25.60S	052.F25.60H	052.F25.60B	203	25	13	25°	38,1
052.G20.60S	052.G20.60H	052.G20.60B	254	20	8	25°	38,1
052.G25.60S	052.G25.60H	052.G25.60B	254	25	14	25°	47,6
052.G35.60S	052.G35.60H	052.G35.60B*	254	35	24	25°	66,7
052.G40.60S	052.G40.60H	052.G40.60B*	254	40	29	25°	76,2
052.V25.60S*	052.V25.60H*	052.V25.60B*	280	25	8	22,5°	52,5
052.V35.60S*	052.V35.60H*	052.V35.60B*	280	35	18	22,5°	73,5
052.X25.60S	052.X25.60H	052.X25.60B	305	25	9	22,5°	57,2
052.X29.60S	052.X29.60H	052.X29.60B	305	29	12,5	22,5°	66,3
052.X32.60S	052.X32.60H	052.X32.60B	305	32	16	22,5°	73,2
052.X38.60S	052.X38.60H	052.X38.60B	305	38	22	22,5°	86,9
052.J20.60S	052.J20.60H	052.J20.60B	330	19	5	22,5°	47,0
052.J22.60S	052.J22.60H	052.J22.60B	330	22	8	22,5°	54,5
052.J25.60S	052.J25.60H	052.J25.60B	330	25	12	22,5°	61,9
052.J30.60S	052.J30.60H	052.J30.60B	330	29	15	22,5°	71,8
052.J32.60S	052.J32.60H	052.J32.60B	330	32	18	22,5°	79,2
052.J35.60S	052.J35.60H	052.J35.60B	330	35	21	22,5°	86,6
052.J40.60S	052.J40.60H	052.J40.60B	330	41	27	22,5°	101,5
052.J45.60S	052.J45.60H	052.J45.60B	330	45	31,5	22,5°	111,4
052.K30.60S	052.K30.60H	052.K30.60B	360	30	8	22,5°	81,0

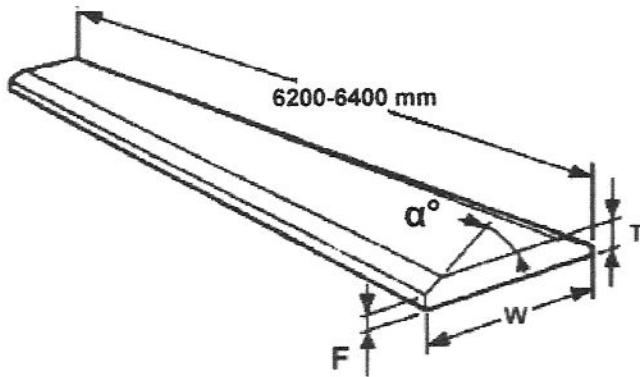
On request we can supply Profiles having dimensions different from the ones listed here above as special execution

TWO BEVELS PROFILES

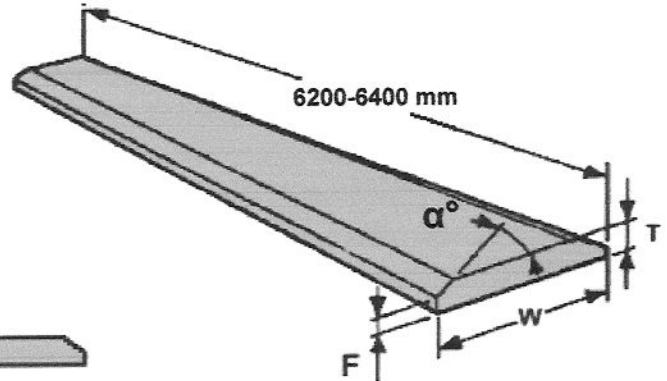
WITHOUT HOLES 6,45 m (21') LONG



**T O U G H
C O M P O N E N T S**



**Without Heat Treatment
Hardness 220-280 HB**



**Trough Hardened to
360-420 HB & 460-520 HB**

DURO 200 220 - 280 HB	DURO 400 360 - 420 HB	DURO 500 460 - 520 HB	Dimensions				Weight
			W	T	F	α°	
MTM Part Number			Millimeters				kg - m
052.U35.60S*	052.U35.60H*	052.U35.60B*	380	35	13	22,5°	99,8
052.U40.60S*	052.U40.60H*	052.U40.60B*	380	40	18	22,5°	114,0
052.L22.60S	052.L22.60H	052.L22.60B	406	22	8	22,5°	67,0
052.L30.60S	052.L30.60H	052.L30.60B	406	29	15	22,5°	88,3
052.L32.60S	052.L32.60H	052.L32.60B	406	32	21,5	22,5°	97,4
052.L35.60S	052.L35.60H	052.L35.60B	406	35	21,5	22,5°	106,6
052.L40.60S	052.L40.60H	052.L40.60B	406	41	26,5	22,5°	124,8
052.L45.60S*	052.L45.60H*	052.L45.60B*	406	45	26,5	22,5°	137,0
052.L45.60S*	052.L45.60H*	052.L50.60B*	406	50	26,5	22,5°	152,3
052.L45.60S*	052.L45.60H*	052.L60.60B*	406	60	26,5	22,5°	182,7

On request we can supply Profiles having dimensions different from the ones listed here above as special execution

TWO BEVEL PROFILES WITHOUT HOLES



**T O U G H
C O M P O N E N T S**

Lengths L = 6200 - 6400 mm

Tollerances W = + 1.5 / - 4.5

T = + 0.8 / - 1.2

F = + 0.8 / - 1.2

L = - 0 / + 200

Chamfering = + / - 5°

Transverse Bow = 0.25 % of L

Longitudinal Bow = 0.7 % of L (max 20 mm)

Carbon Equivalent : DURO 500 CE = 0.57 ÷ 0.69

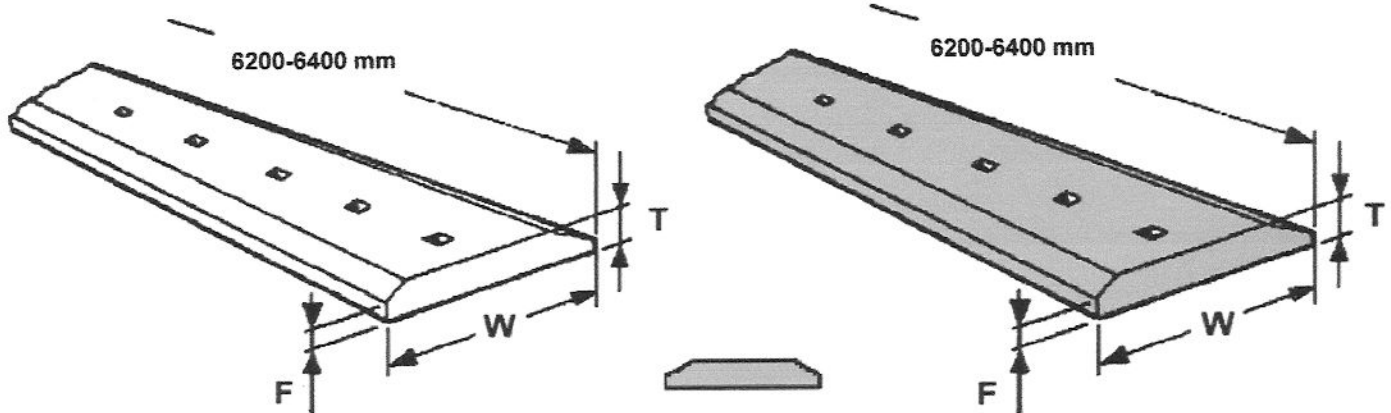
Gas Cutting : DURO 500 - Pre-heat the area that must be cut to a temperature range of 150 - 200° C in order to avoid cracks

Notes : Bars cut to 3 mt (10') at no charge
Bars cut to size not possible
Bars of not standard production - Price on request
* : These bars have the bevel made by gas cutting and they have not the rear bevel

TWO BEVELS PROFILES WITH HOLES 6,45 m (21') LONG



**T O U G H
C O M P O N E N T S**



Without Heat Treatment
Hardness 220-280 HB

Trough Hardened to
360-420 HB & 460-520 HB

Standard Pitches and Holes for Plow-Bolt

Cod. Rif. MTM	B	C	H	I	U	N	Q	P
Bolt - Hole and Pitches	5/8"x4"	5/8"x6"	3/4"x4"	3/4"x6"	7/8"x4"	7/8"x6"	1"x6"	1 1/4"x6"

Es : COD.MTM 052-G25-6CB; Dim.254x25x2sm;L=6200-6400; Bolt-holes 5/8";Pitches 6"; DURO 500

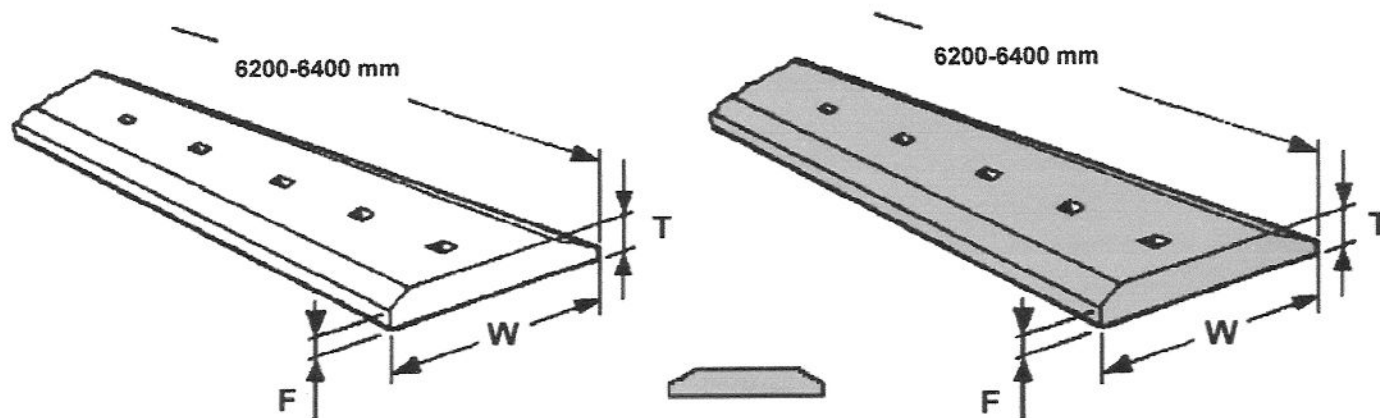
DURO 200 220 - 280 HB	DURO 400 360 - 420 HB	DURO 500 460 - 520 HB	Dimensions			α °	Weight kg - m
			W	T	F		
MTM Part Number			Millimeters				
052.C16.6...S	052.C16.6...H	052.C16.6...B	120	15	5	25	13,5
052.D16.6...S	052.D16.6...H	052.D16.6...B	152	16	5	25°	18,2
052.D20.6...S	052.D20.6...H	052.D20.6...B	152	19	9	25°	21,7
052.M16.6...S*	052.M16.6...H*	052.M16.6...B*	165	16	5	25°	19,8
052.E20.6...S*	052.E20.6...H*	052.E20.6...B*	180	20	9	25	27,0
052.F16.6...S	052.F16.6...H	052.F16.6...B	203	16	5	25°	24,4
052.F20.6...S	052.F20.6...H	052.F20.6...B	203	20	8	25°	30,5
052.F25.6...S	052.F25.6...H	052.F25.6...B	203	25	13	25°	38,1
052.G20.6...S	052.G20.6...H	052.G20.6...B	254	20	8	25°	38,1
052.G25.6...S	052.G25.6...H	052.G25.6...B	254	25	14	25°	47,6
052.G35.6...S	052.G35.6...H	052.G35.6...B*	254	35	24	25°	66,7
052.G40.6...S	052.G40.6...H	052.G40.6...B*	254	40	29	25°	76,2
052.V25.6...S*	052.V25.6...H*	052.V25.6...B*	280	25	8	22,5°	52,5
052.V35.6...S*	052.V35.6...H*	052.V35.6...B*	280	35	18	22,5°	73,5
052.X25.6...S	052.X25.6...H	052.X25.6...B	305	25	9	22,5°	57,2
052.X29.6...S	052.X29.6...H	052.X29.6...B	305	29	12,5	22,5°	66,3
052.X32.6...S	052.X32.6...H	052.X32.6...B	305	32	16	22,5°	73,2
052.X38.6...S	052.X38.6...H	052.X38.6...B	305	38	22	22,5°	86,9

On request we can supply Profiles having dimensions different from the ones listed here above as special execution

TWO BEVELS PROFILES WITH HOLES 6,45 m (21') LONG



**T O U G H
C O M P O N E N T S**



**Without Heat Treatment
Hardness 220-280 HB**

**Trough Hardened to
360-420 HB & 460-520 HB**

Standard Pitches and Holes for Plow-Bolt

Cod. Rif. MTM	B	C	H	I	U	N	Q	P
Bolt - Hole and Pitches	5/8"x4"	5/8"x6"	3/4"x4"	3/4"x6"	7/8"x4"	7/8"x6"	1"x6"	1 1/4"x6"

Es : COD.MTM 052-G25-6CB; Dim.254x25x2sm;L=6200-6400; Bolt-holes 5/8";Pitches 6"; DURO 500

DURO 200 220 - 280 HB	DURO 400 360 - 420 HB	DURO 500 460 - 520 HB	Dimensions			α °	Weight kg - m
			W	T	F		
MTM Part Number			Millimeters				
052.J20.6...S	052.J20.6...H	052.J20.6...B	330	19	5	22,5°	47,0
052.J22.6...S	052.J22.6...H	052.J22.6...B	330	22	8	22,5°	54,5
052.J25.6...S	052.J25.6...H	052.J25.6...B	330	25	12	22,5°	61,9
052.J30.6...S	052.J30.6...H	052.J30.6...B	330	29	15	22,5°	71,8
052.J32.6...S	052.J32.6...H	052.J32.6...B	330	32	18	22,5°	79,2
052.J35.6...S	052.J35.6...H	052.J35.6...B	330	35	21	22,5°	86,6
052.J40.6...S	052.J40.6...H	052.J40.6...B	330	41	27	22,5°	101,5
052.J45.6...S	052.J45.6...H	052.J45.6...B	330	45	31,5	22,5°	111,4
052.K30.6...S	052.K30.6...H	052.K30.6...B	360	30	8	22,5°	81,0
052.U35.6...S*	052.U35.6...H*	052.U35.6...B*	380	35	13	22,5°	99,8
052.U40.6...S*	052.U40.6...H*	052.U40.6...B*	380	40	18	22,5°	114,0
052.L22.6...S	052.L22.6...H	052.L22.6...B	406	22	8	22,5°	67,0
052.L30.6...S	052.L30.6...H	052.L30.6...B	406	29	15	22,5°	88,3
052.L32.6...S	052.L32.6...H	052.L32.6...B	406	32	21,5	22,5°	97,4
052.L35.6...S	052.L35.6...H	052.L35.6...B	406	35	21,5	22,5°	106,6
052.L40.6...S	052.L40.6...H	052.L40.6...B	406	41	26,5	22,5°	124,8
052.L45.6...S*	052.L45.6...H*	052.L45.6...B*	406	45	26,5	22,5°	137,0
052.L45.6...S*	052.L45.6...H*	052.L50.6...B*	406	50	26,5	22,5°	152,3
052.L45.6...S*	052.L45.6...H*	052.L60.6...B*	406	60	26,5	22,5°	182,7

On request we can supply Profiles having dimensions different from the ones listed here above as special execution

TWO BEVEL PROFILES WITH HOLES



**T O U G H
C O M P O N E N T S**

Lengths L = 6200 - 6400 mm

Tolerances W = + 1.5 / - 4.5

 T = + 0.8 / - 1.2

 F = + 0.8 / - 1.2

 L = - 0 / + 200

Chamfering = +/- 5°

Transverse Bow = 0.25 % of L

Longitudinal Bow = 0.7 % of L (max 20 mm)

Carbon Equivalent : DURO 500 CE = 0.57 ÷ 0.69

Gas Cutting : DURO 500 - Pre-heat the area that must be cut to a temperature range of 150 - 200° C in order to avoid cracks

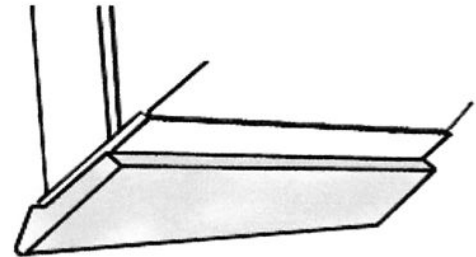
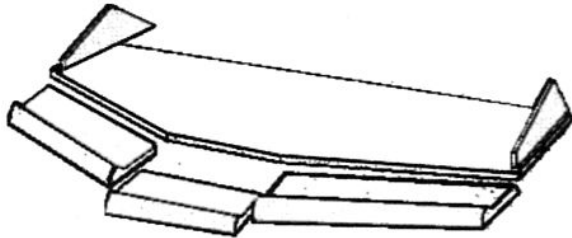
Notes : Bars cut to 3 mt (10') at no charge
 Bars cut to size not possible
 Bars of not standard production - Price on request
 * : These bars have the bevel made by gas cutting and they have not the rear bevel

HALF-ARROW PROFILES

Special Profiles for Loader Buckets



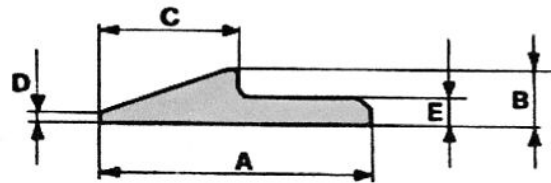
**T O U G H
C O M P O N E N T S**



Without Heat Treatment
Hardness 220-280 HB
L = 6000 - 6300 mm
L/2 = 3000 - 3150 mm
Special length on request

Trough Hardened
360-420 HB & 460-520 HB
L = 6000 - 6300 mm
L/2 = 3000 - 3150 mm
Special length on request

Typical Section



DURO 200 220-280 HB	DURO 400 * 360-420 HB	DURO 500 460-520 HB	Dimensions					L	Weight Kg x m
			A	B	C	D	E		
MTM Part Number			Millimeters						
054-B10-60S	054-B10-60H	054-B10-60B	101	20	55	3,5	10	6000 - 6300	9,2
054-D16-60S	054-D16-60H	054-D16-60B	151	32	83	5,5	16	6000 - 6300	20,5
054-F20-60S	054-F20-60H	054-F20-60B	203	32	74	4,5	19	6000 - 6300	31,4
054-G29-60S	054-G29-60H	054-G29-60B	255	57	131	11	28,5	6000 - 6300	65,6
054-G40-60S	054-G40-60H	054-G40-60B	255	68,5	131	23	40	6000 - 6300	88,7
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054-B10-30S	054-B10-30H	054-B10-30B	101	20	55	3,5	10	3000 - 3150	9,2
054-D16-30S	054-D16-30H	054-D16-30B	151	32	83	5,5	16	3000 - 3150	20,5
054-F20-30S	054-F20-30H	054-F20-30B	203	32	74	4,5	19	3000 - 3150	31,4
054-G29-30S	054-G29-30H	054-G29-30B	255	57	131	11	28,5	3000 - 3150	65,6
054-G40-30S	054-G40-30H	054-G40-30B	255	68,5	131	23	40	3000 - 3150	88,7

* On request

Our parts are not original but they are interchangeable with them. The O.E.M. Part Numbers are give for reference purposes only.