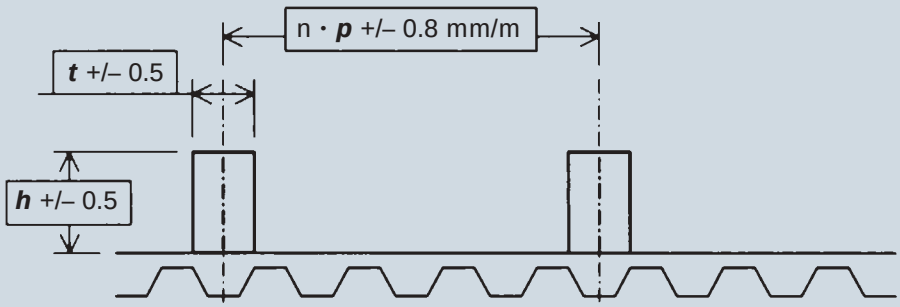
Megadyne timing belts can be customised with profiles vulcanised on the backside. All the cleats are made using the same thermoplastic polyurethane as the MEGALINEAR body *(white PU 92 ShA).*
The profiles are attached with the best technology now available, the High Vibration System.
The production process for these profiles is very flexible; Megadyne can design any profile to meet the specific requirement of the customer, in order to check and develop all the needed special profiles.

STANDARD PARALLELEPIPED PROFILES

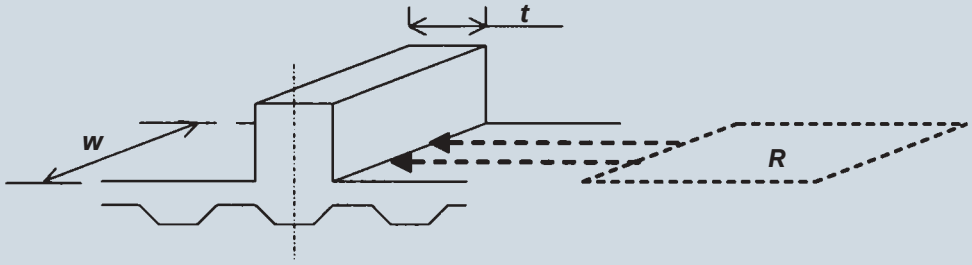
Megadyne can produce, as standard cleats, the parallelepiped profiles, starting from a thermoplastic polyurethane strip roll and cutting until the requested profile dimension.
The t value (thickness) is available from 2 until 13 mm, the h value (height) can be from 3 until 120 mm and the width can be 150 mm maximum.
Megadyne recommend that the profile spacing were multiple of the belt pitch; in any case, for special inquiries and small quantities, it is possible to weld the profiles also in others positions; the feasible dimensions, with the standard process tolerances, are introduced in the following sketch.



The tolerances on the position are +/– 0.5 mm.
The cumulative tolerance on the spacing of the profiles is the same of the length tolerance for our standard belts (+/– 0.8 mm/m) (tighter tolerances are available on request).
Due to the welding process, a bead of material develops at the meeting point of profile and belt.
In any case, Megadyne always remove this welding bead.

PROFILE MECHANICAL RESISTANCE

In order to find the right cleat dimensions, please consider the following factors:
- Section base cleats resistance ***(R)*** becomes bigger, increasing:
  – cleats width ***(w)***
  – cleats thickness ***(t)***



- Cleat stiffness is bigger:
  – increasing cleat thickness ***(t)***
  – using special moulded profiles, like STDE0006, STDE0008, STDE0010 and STMI0012 types

MIN. N° OF PULLEY TEETH FOR BELTS WITH PROFILES

The profiles presence can change the belt flexibility properties; the two factors that affect the original flexibility are the following:

- thickness of the cleat "foot" (size of the base). Flexibility decreases when welded area dimensions increase
- position of the welded profile on the belt. When the cleats are welded in axis with the teeth, belt flexibilty is better than when cleats are welded in axis with the little nose.

Please find, in the following table, flexibility properties for the cleated belts.

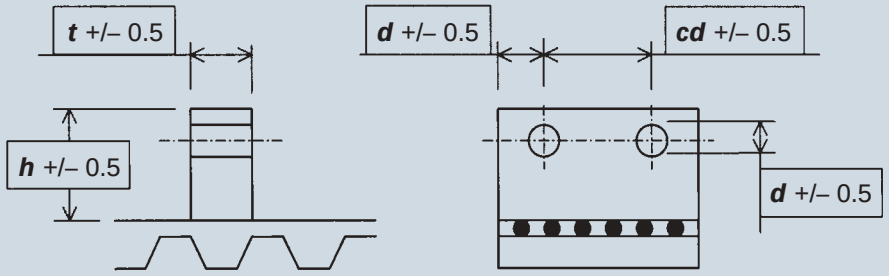
MINIMUM NUMBER OF PULLEY TEETH

CLEATS OVER A TOOTH						
CLEATS THICKNESS	*4*	*5*	*6*	*8*	*10*	*12*
XL	**18**	**18**	**25**	**40**	**50**	**100**
L	**12**	**12**	**18**	**30**	**40**	**60**
H	**14**	**14**	**14**	**18**	**25**	**45**
XH	**18**	**18**	**18**	**28**	**18**	**20**
T5 / AT5	**18**	**18**	**25**	**40**	**50**	**100**
T10 / AT10	**14**	**14**	**14**	**18**	**25**	**45**
T20 / AT20	**18**	**18**	**18**	**18**	**18**	**20**
RPP5	**18**	**18**	**25**	**40**	**50**	**100**
RPP8	**14**	**14**	**14**	**18**	**25**	**45**
RPP14	**18**	**18**	**18**	**18**	**18**	**20**

CLEATS NOT OVER A TOOTH						
CLEATS THICKNESS	*4*	*5*	*6*	*8*	*10*	*12*
XL	**45**	**45**	**50**	**60**	**100**	**–**
L	**40**	**40**	**45**	**55**	**60**	**80**
H	**25**	**25**	**30**	**45**	**50**	**65**
XH	**20**	**20**	**30**	**40**	**45**	**54**
T5 / AT5	**45**	**45**	**50**	**60**	**100**	**–**
T10 / AT10	**30**	**30**	**40**	**45**	**50**	**65**
T20 / AT20	**20**	**20**	**30**	**40**	**45**	**54**
RPP5	**45**	**45**	**50**	**60**	**100**	**–**
RPP8	**30**	**30**	**40**	**45**	**50**	**65**
RPP14	**20**	**20**	**30**	**40**	**45**	**54**

STANDARD PARALLELEPIPED PROFILES WITH HOLES

Parallelepided profiles are available also with holes, to satisfy specials applications; please find below the standard tolerances for this kind of cleats.



Tighter tolerances on request

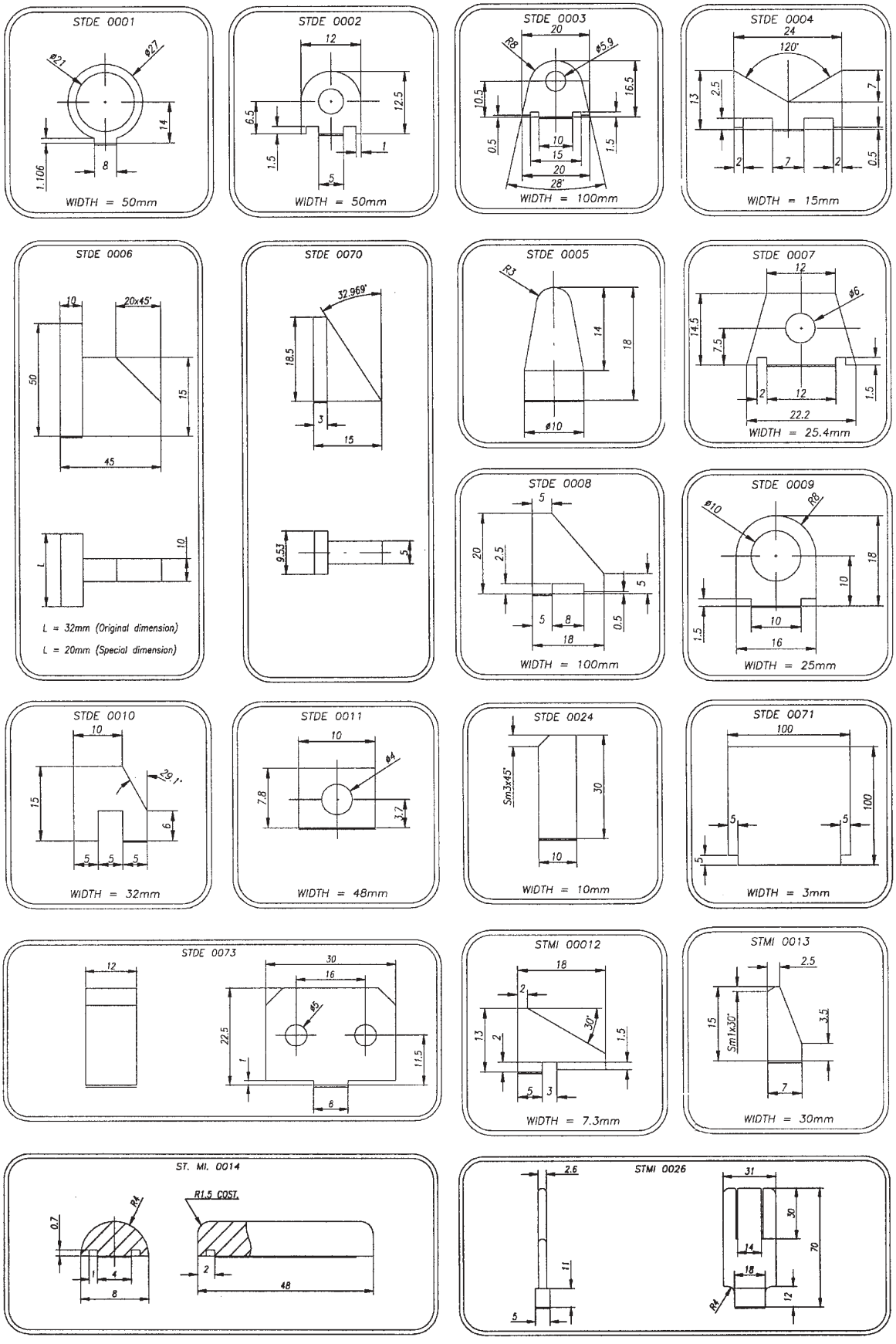
For belt flexibilty and mechanical resistance, please kinldy refer to values for cleats without holes.

MOULDED CLEATS

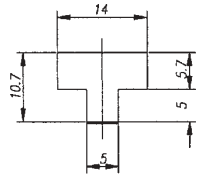
Using an high performance injection system, Megadyne can produce any profile designed by the customer. For cleats not yet present in following pages, Megadyne can produce dedicated mould according customer requirements. For belt flexibility and mechanical resistance, please kinldy refer to standard parallelepiped profiles section.

SPECIAL CLEATS DRAWING LIST

If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.



STMI 0018



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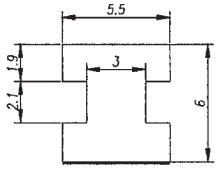
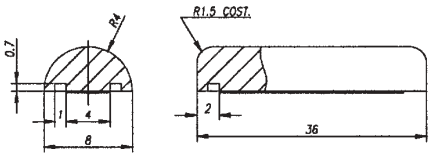
STMI 0043

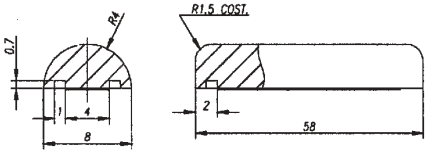


WIDTH = 27mm

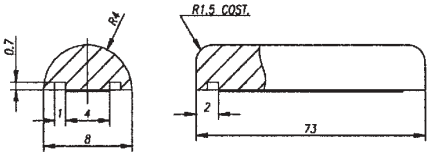
ST. MI. 0066



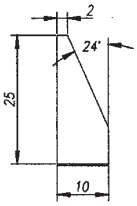
ST. MI. 0067



ST. MI. 0068



STMI 0044



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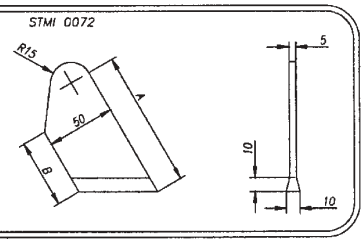
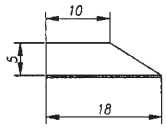
STMI 0072

Part.	A	B
1	100	50
2	97	47
3	94	44
4	91	41
5	88	38
6	85	35
7	82	32
8	79	29
9	76	26
10	73	23
11	70	20



FRME 0017



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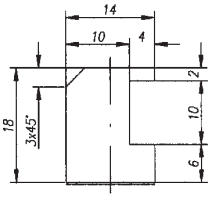
FRME 0019



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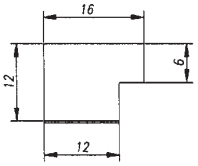
FRME 0020



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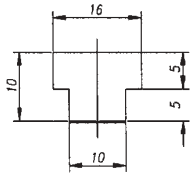
FRME 0022



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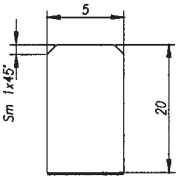

WIDTH = 12mm

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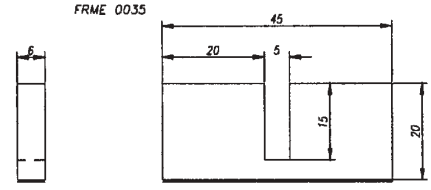
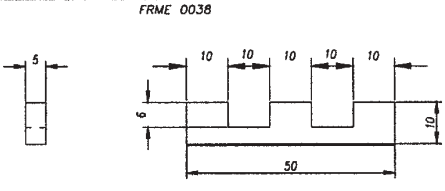
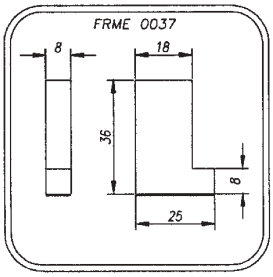


FRME 0038



FRME 0037



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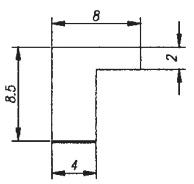
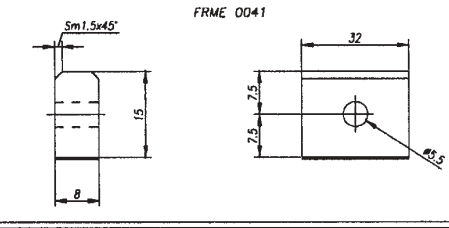


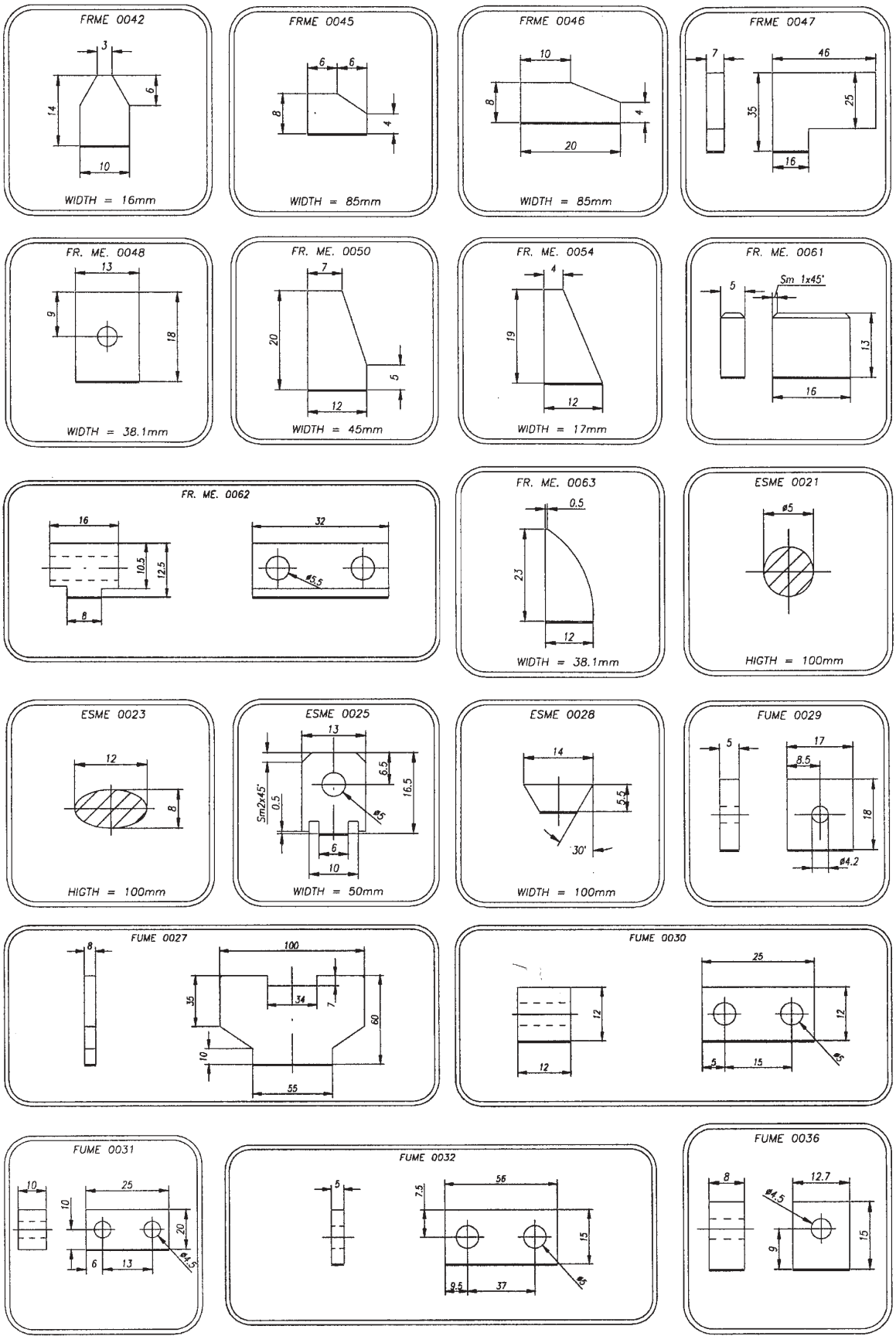
WIDTH = 25.4mm

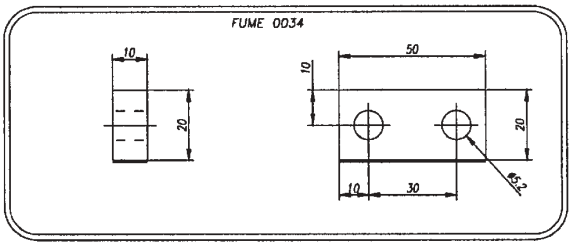
FRME 0041

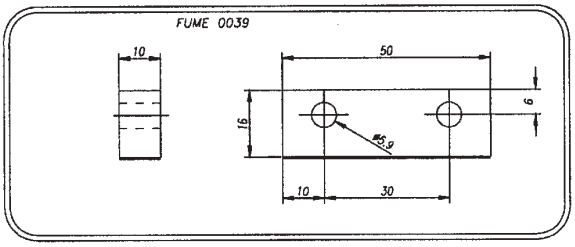


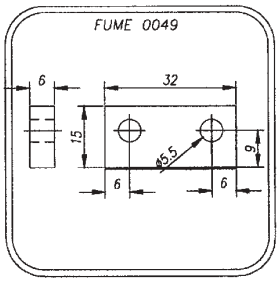
SPECIAL CLEATS DRAWING LIST

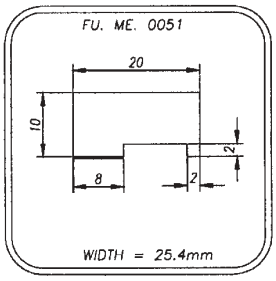
If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

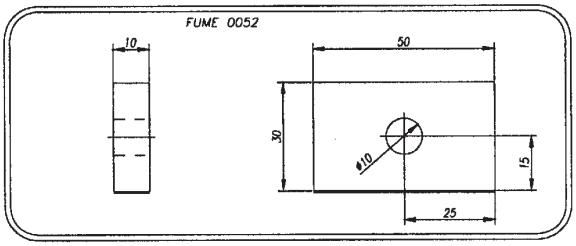


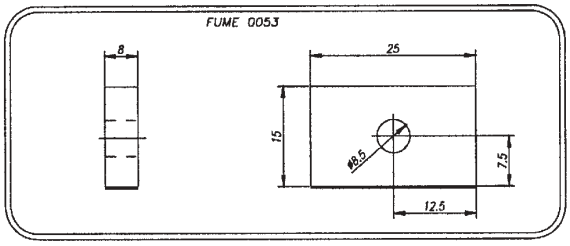

FUME 0034
10
20
50
10
20
10
30
Ø5.2

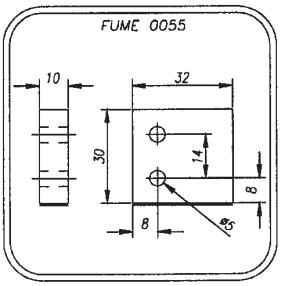

FUME 0039
10
50
16
6
Ø5.2
10
30

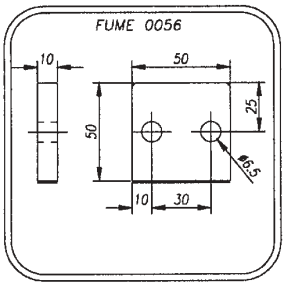

FUME 0049
6
32
15
9
Ø5.5
6
6

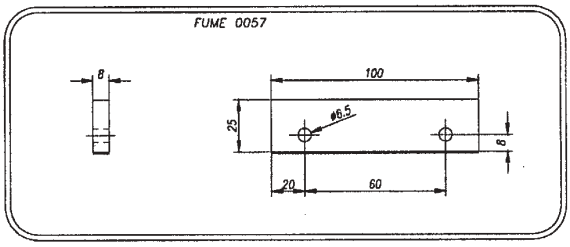

FU. ME. 0051
20
10
2
8
2
WIDTH = 25.4mm

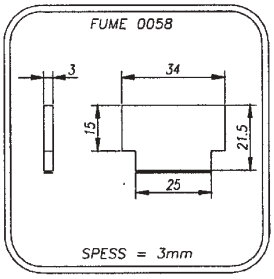

FUME 0052
10
50
30
Ø10
15
25

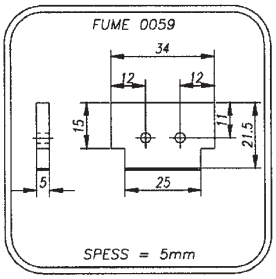

FUME 0053
8
25
15
Ø8.5
7.5
12.5

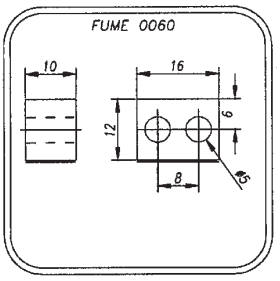

FUME 0055
10
32
30
14
8
8
Ø5

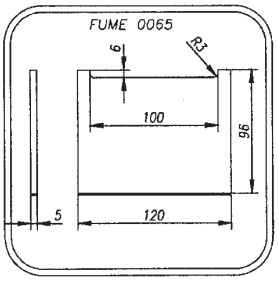

FUME 0056
10
50
50
25
Ø6.5
10
30

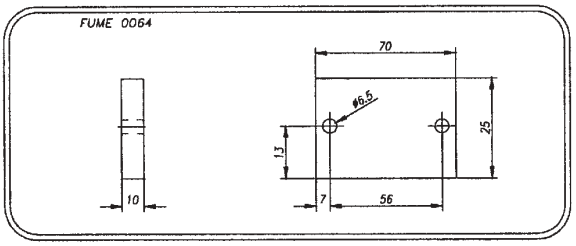

FUME 0057
8
100
25
Ø6.5
8
20
60

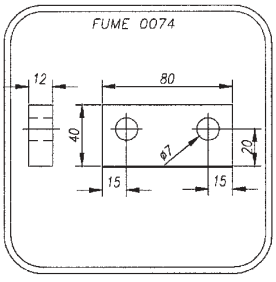

FUME 0058
3
34
15
21.5
25
SPESS = 3mm

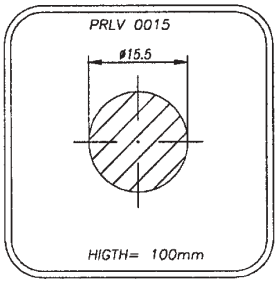

FUME 0059
34
12
12
15
11
21.5
5
25
SPESS = 5mm

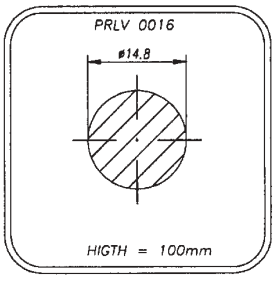

FUME 0060
10
16
12
6
8
Ø5


FUME 0065
6
R3
100
96
5
120


FUME 0064
70
Ø6.5
13
25
10
7
56


FUME 0074
12
80
40
Ø7
20
15
15


PRLV 0015
Ø15.5
HIGTH= 100mm


PRLV 0016
Ø14.8
HIGTH = 100mm