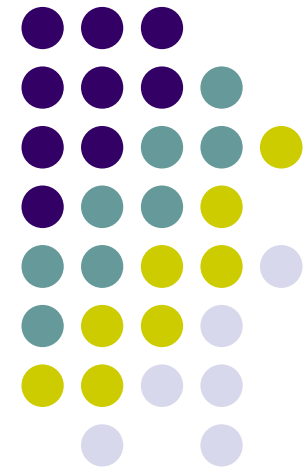
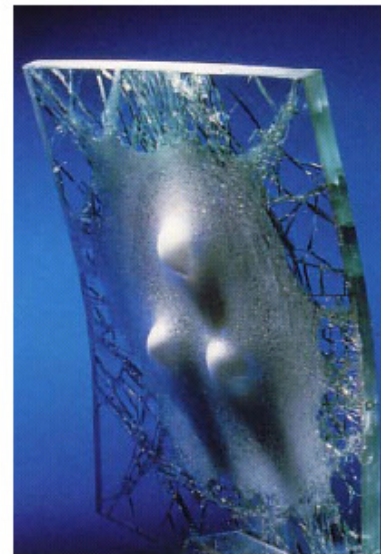
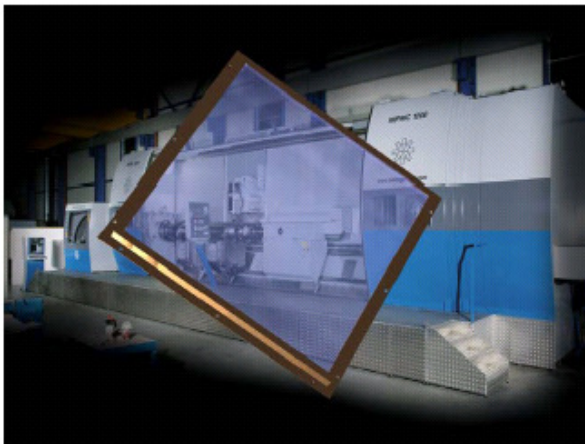


Vitrages de Sécurité

(dossier technique)

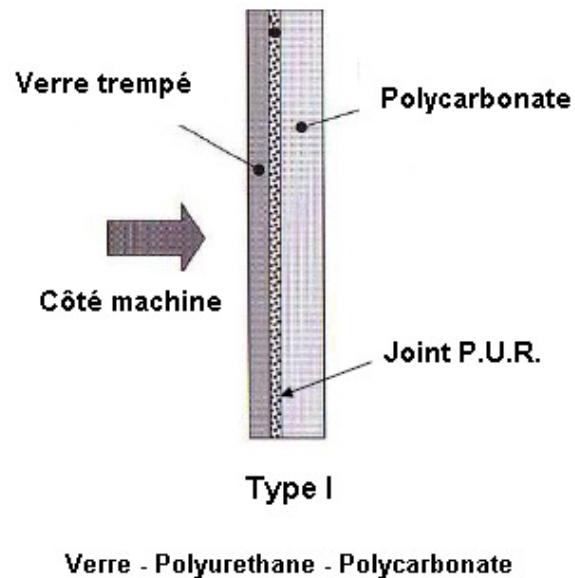


Vitrages de Sécurité pour machines-outils
aux normes DIN EN 12415 / 12417

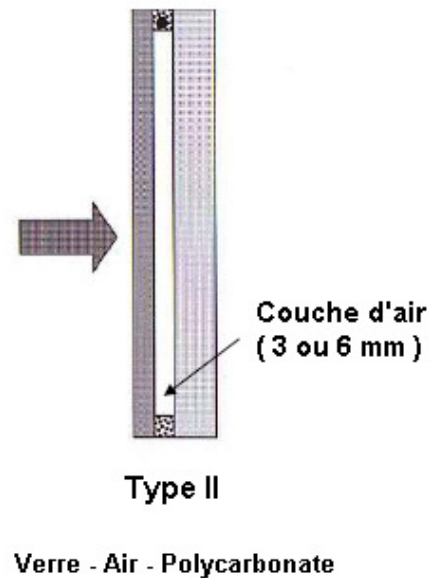
Description des Vitrages de Sécurité



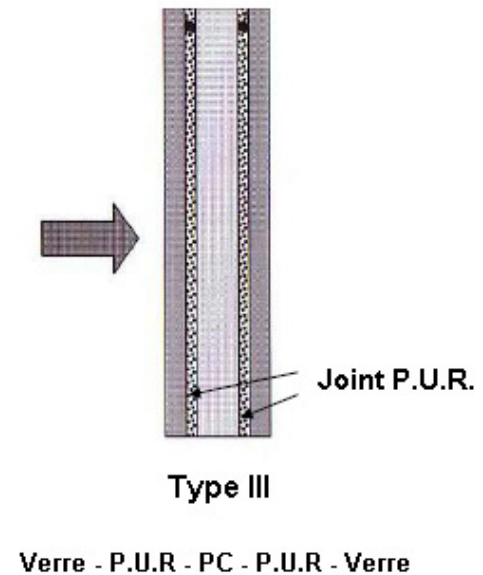
Simple jonction par joint P.U.R.



Simple jonction par air



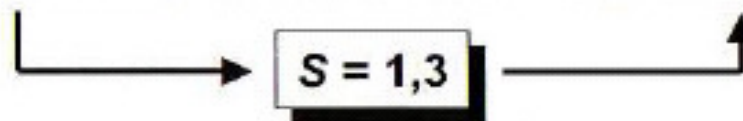
Double jonction par joint P.U.R.



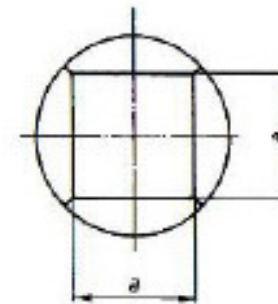
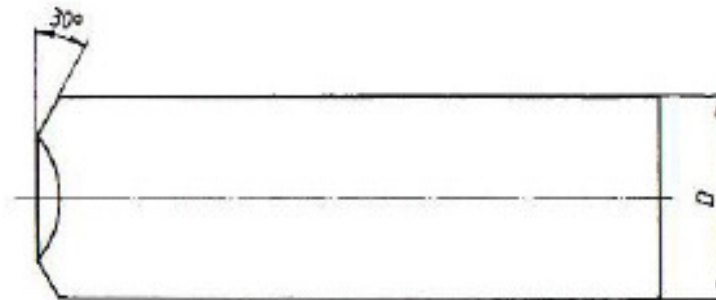
Classification des résistances à la norme DIN EN 12415



Resistance Classification	Chuck Diameter		Speed of Rotation m/s	Projectile Size D x a mm x mm	Mass of Projectile kg	Impact Speed m/s	Impact Energy J
	mm over	mm up to					
A ₁		130	25	30 x 19	0,625	32	320
A ₂			40			50	781
A ₃			63			80	2000
B ₁	130	250	40	40 x 25	1,25	50	1562
B ₂			50			63	2480
B ₃			63			80	4000
C ₁	250		40	50 x 30	2,50	50	3124
C ₂			50			63	4960
C ₃			63			80	8000



Descriptif de la norme DIN EN 12415

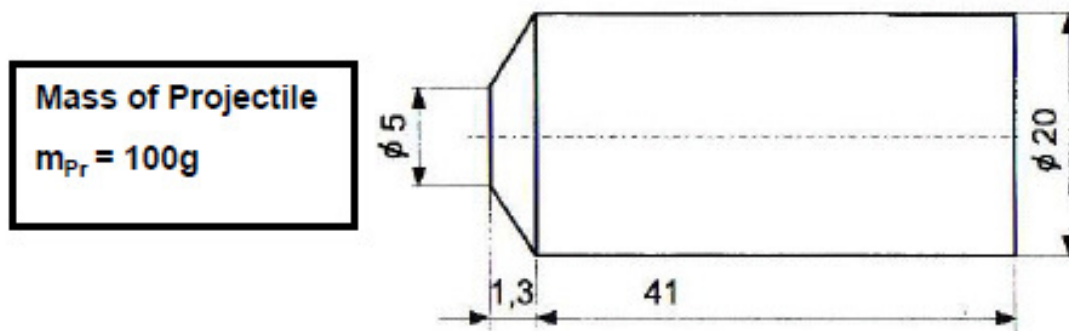


Projectile		
Mass m kg	Diameter \varnothing mm	Surface area a x a mm x mm
0,625	30	19 x 19
1,25	40	25 x 25
2,5	50	30 x 30

Valid Range:

- Ejected Chuck Jaws
- Chuck Diameter up to 500 mm

Descriptif de la norme DIN EN 12417



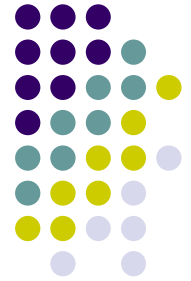
Material	Thickness in mm	Velocity in m/s	Energy in Nm
St 12.03	2		
	4	140	980
	6	180	1.620
Polycarbonate	6	100	500
	8	115	660
	12	150	1.125

Worst case senario

$$E = \frac{1}{2} m_{Pr} (B\pi n)^2$$

v_c highest cutting speed m/s
 B largest tooling diameter m
 n highest spindle speed t

Réalisations



Réalisations



Références

