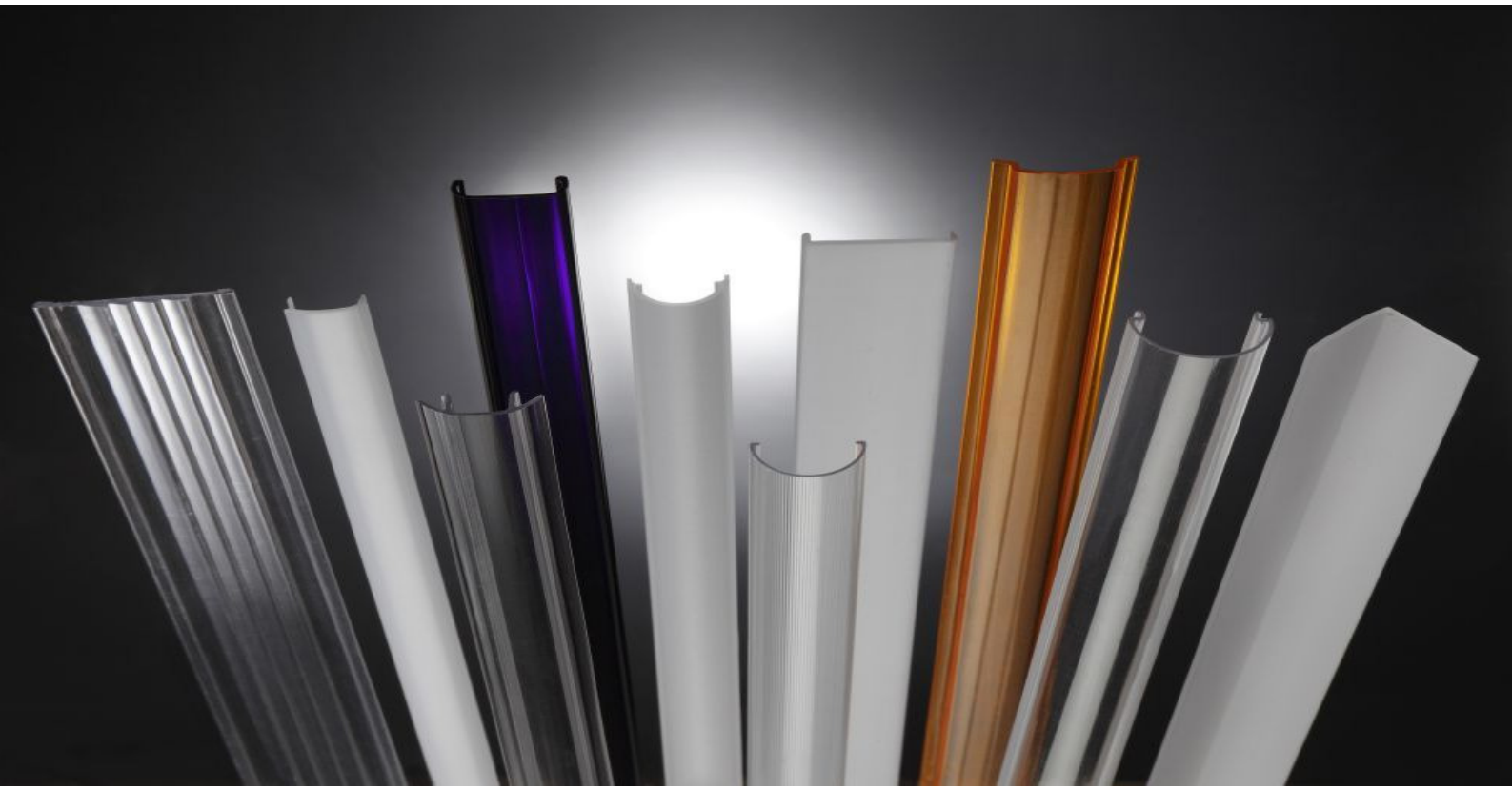
PTH GROUP s.r.l. - Via Ticino 15 - 21043 Castiglione Olona (VA) - ITALIA
Tel +39 0331 858378 - Fax +39 0331 824390 - E-mail: info@pth.it
Web site: www.pth.it

PROFILI LED

Alcuni disegni di profili riportati nel presente catalogo sono di proprietà dei nostri clienti.

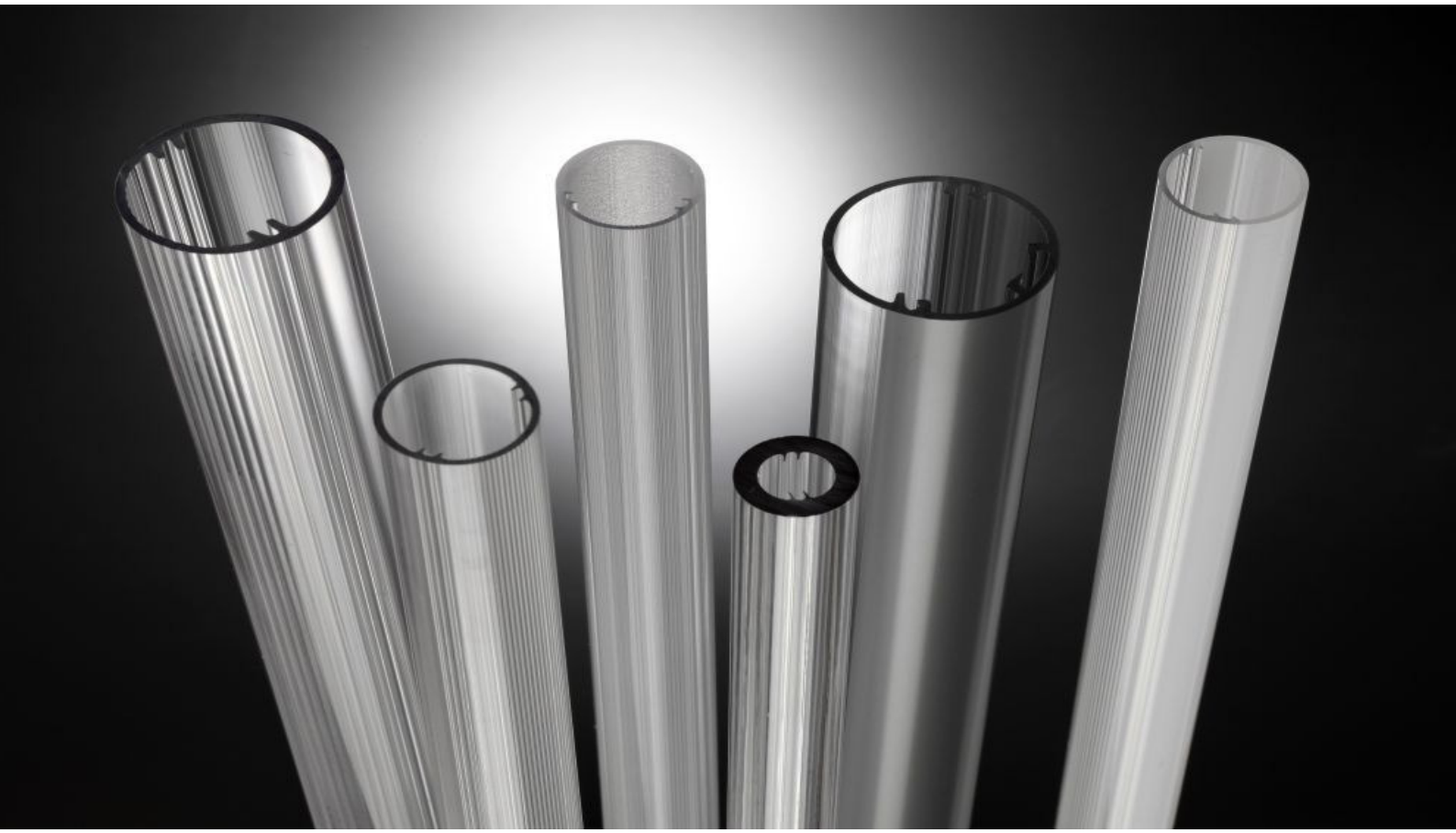
PROFILI ILLUMINAZIONE LED



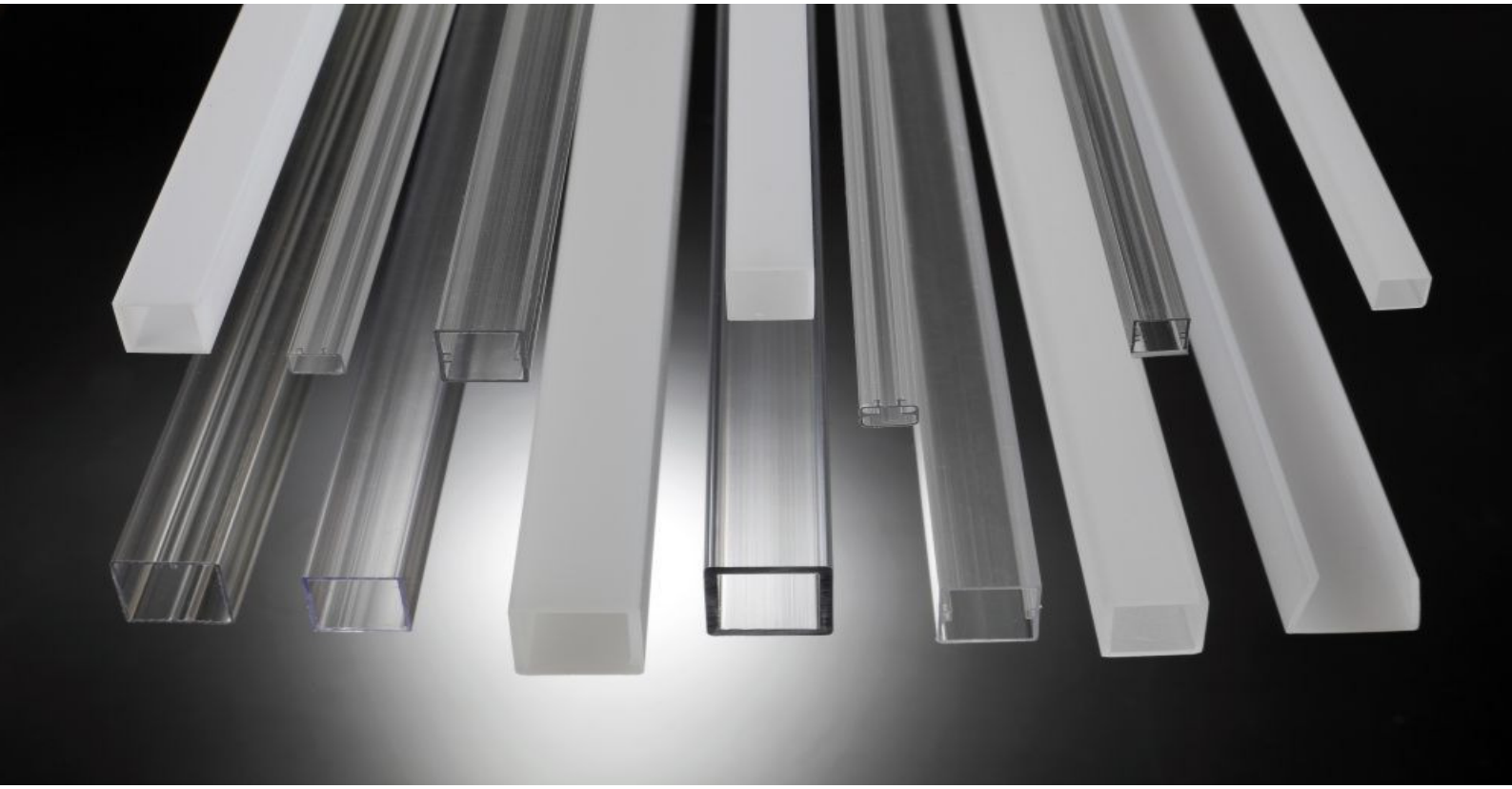
LENTI E DIFFUSORI DI COPERTURA IN POLICARBONATO E PMMA PER LED



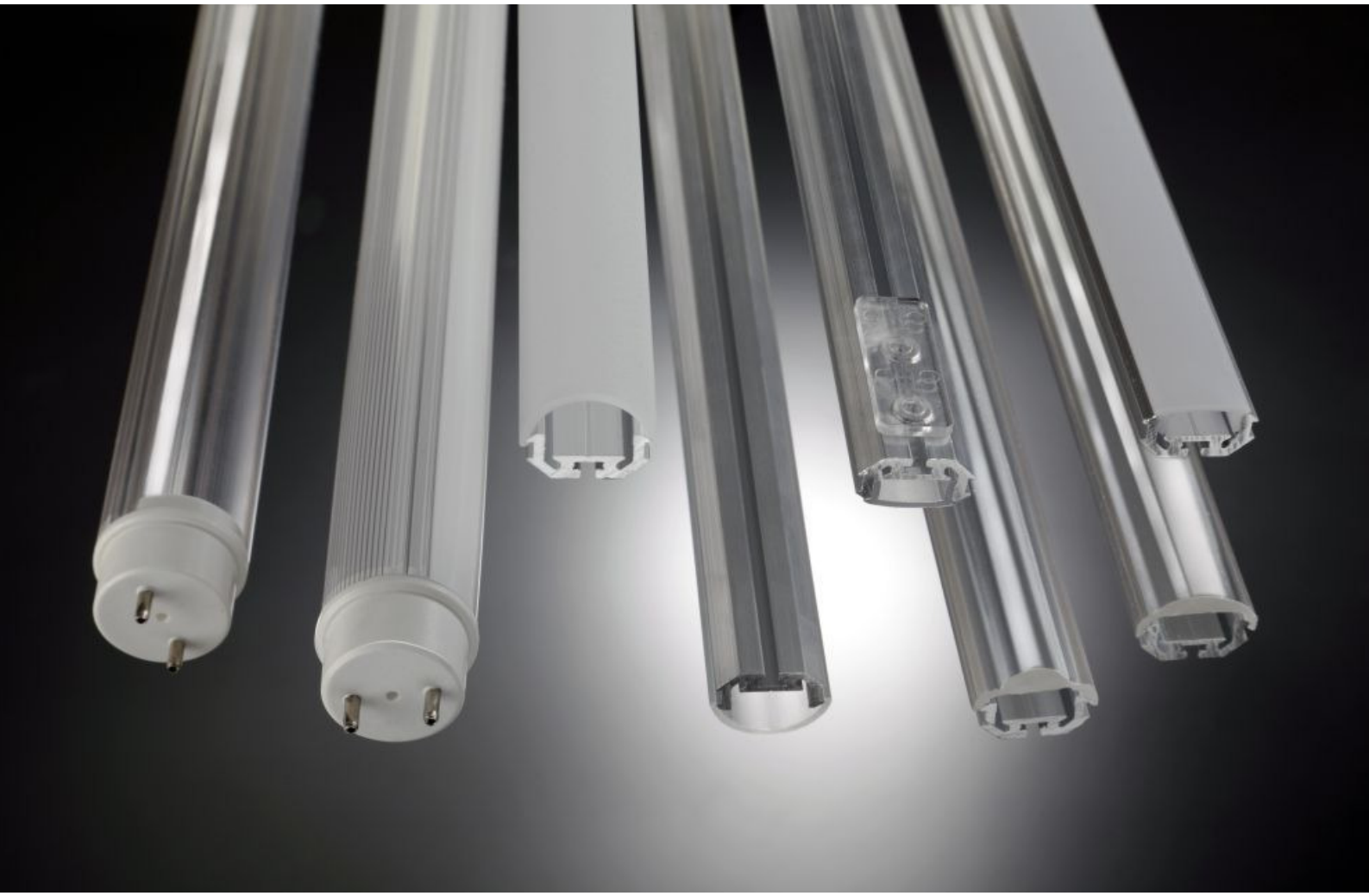
TUBI ILLUMINAZIONE LED



TUBI QUADRATI IN POLICARBONATO E PMMA PER LED

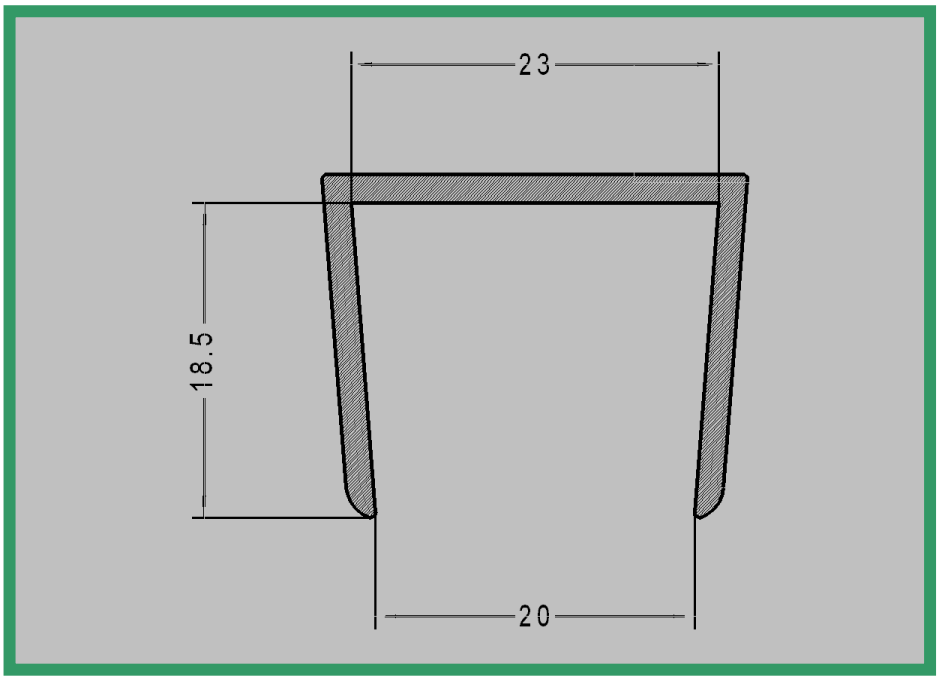


BARRE IN ALLUMINIO E ACCESSORI PER LED

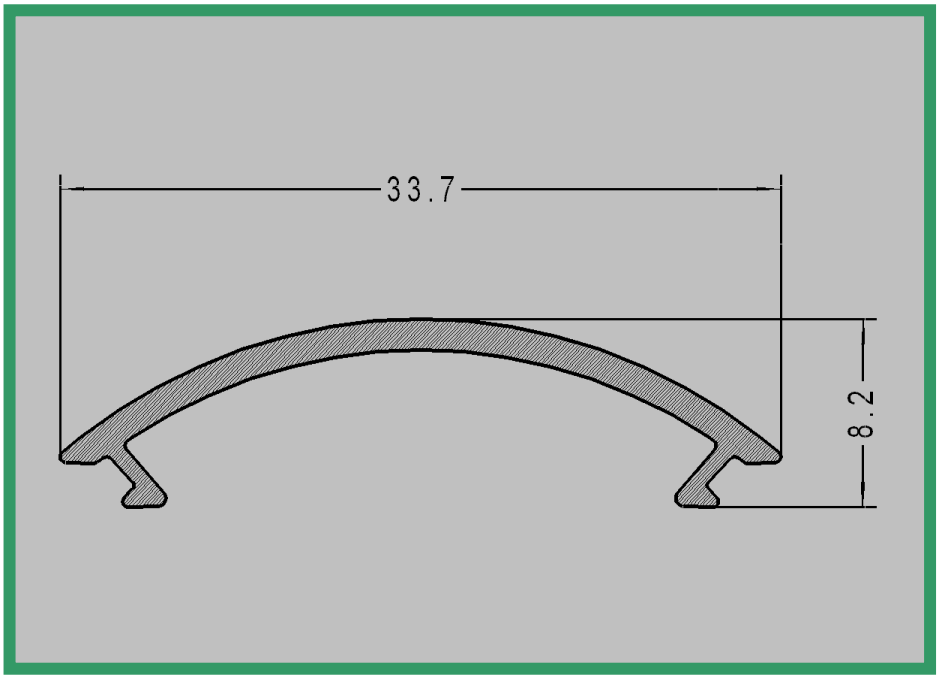


PROFILI LED

Profilo 1010.06
Materiale : POLICARBONATO TRASPARENTE / OPALE

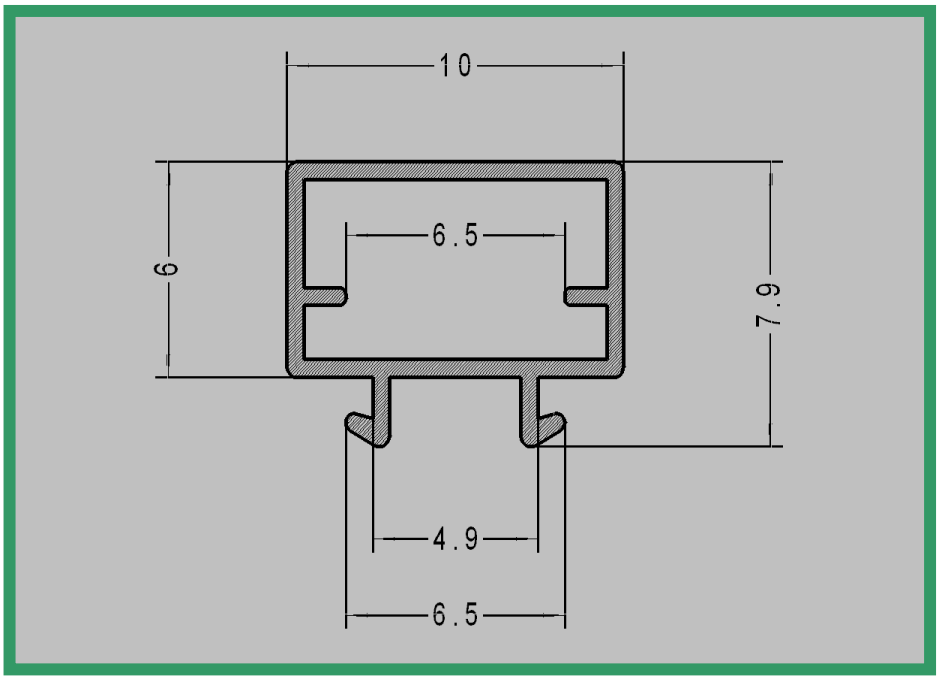


Profilo 1010.20
Materiale : PMMA SATINATO

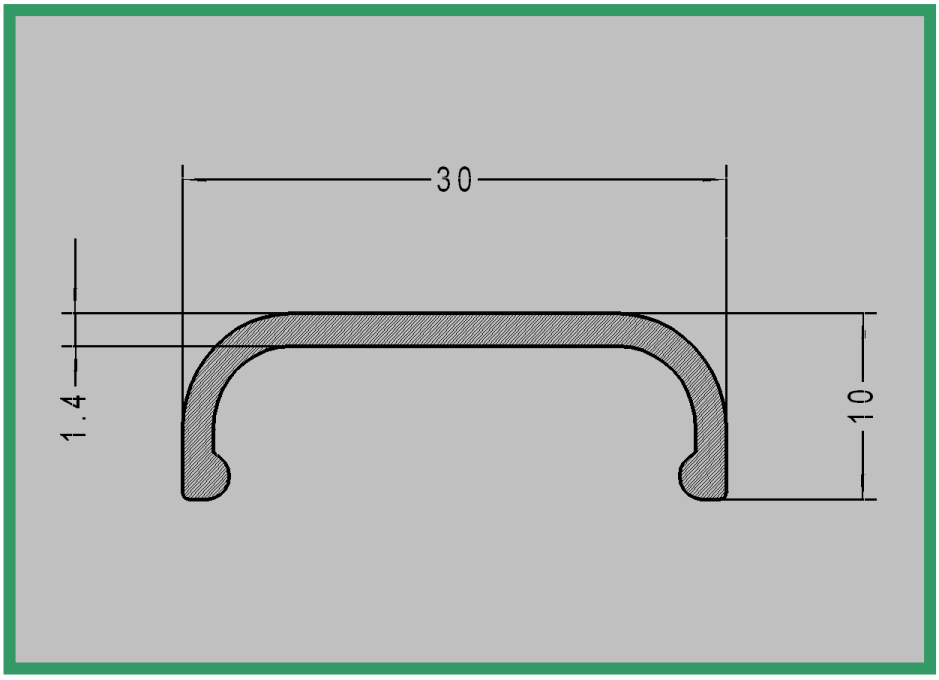


PROFILI LED

Profilo 1010.21
Materiale : POLICARBONATO TRASPARENTE / OPALE

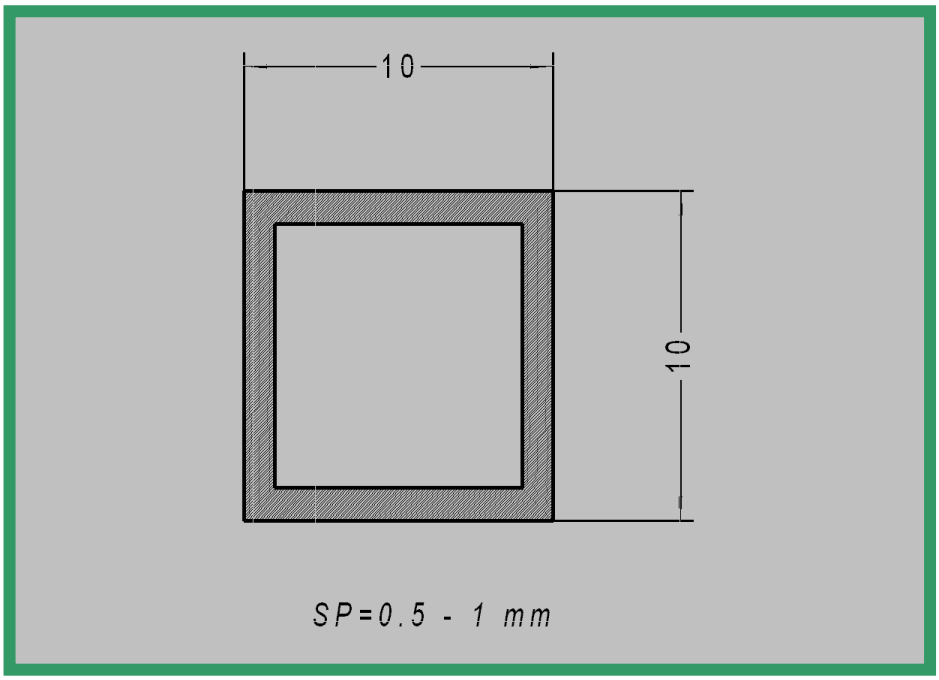


Profilo 1010.24
Materiale : POLICARBONATO TRASPARENTE / OPALE

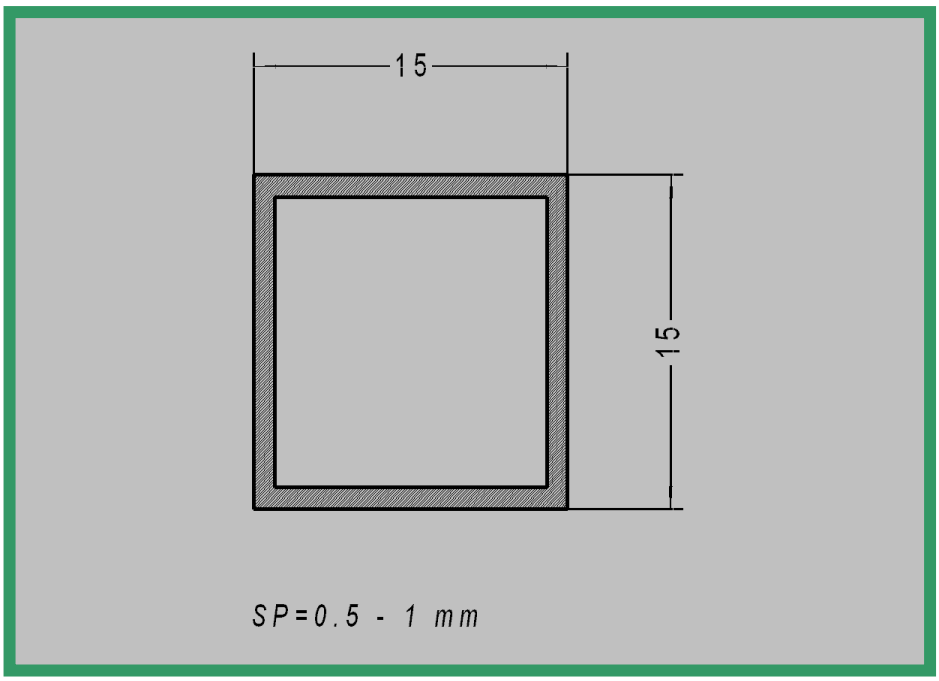


PROFILI LED

Profilo 1010.33
Materiale : POLICARBONATO TRASPARENTE / OPALE

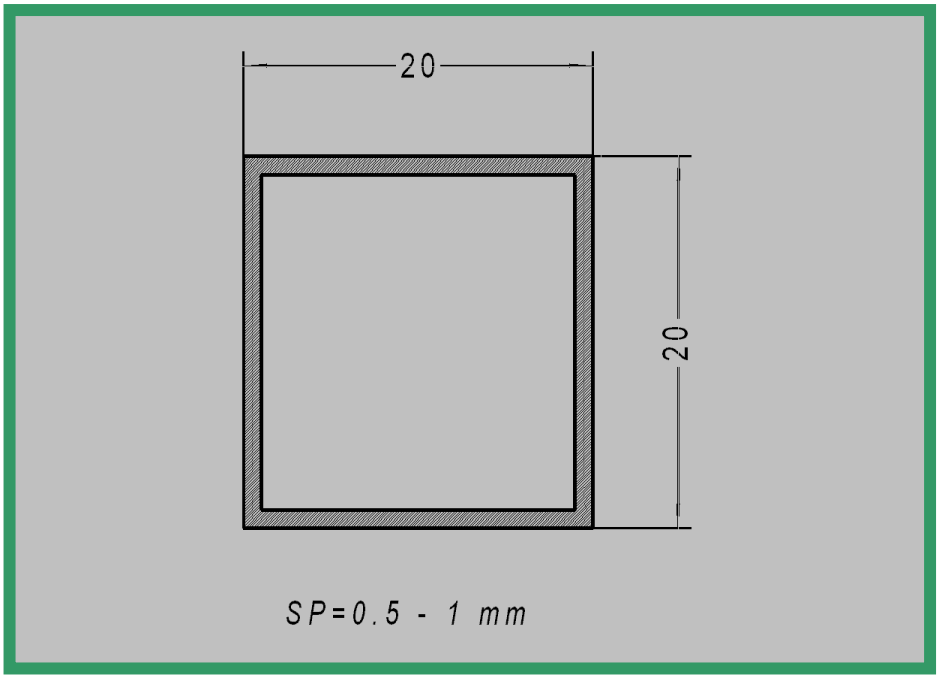


Profilo 1010.34
Materiale : POLICARBONATO TRASPARENTE / OPALE

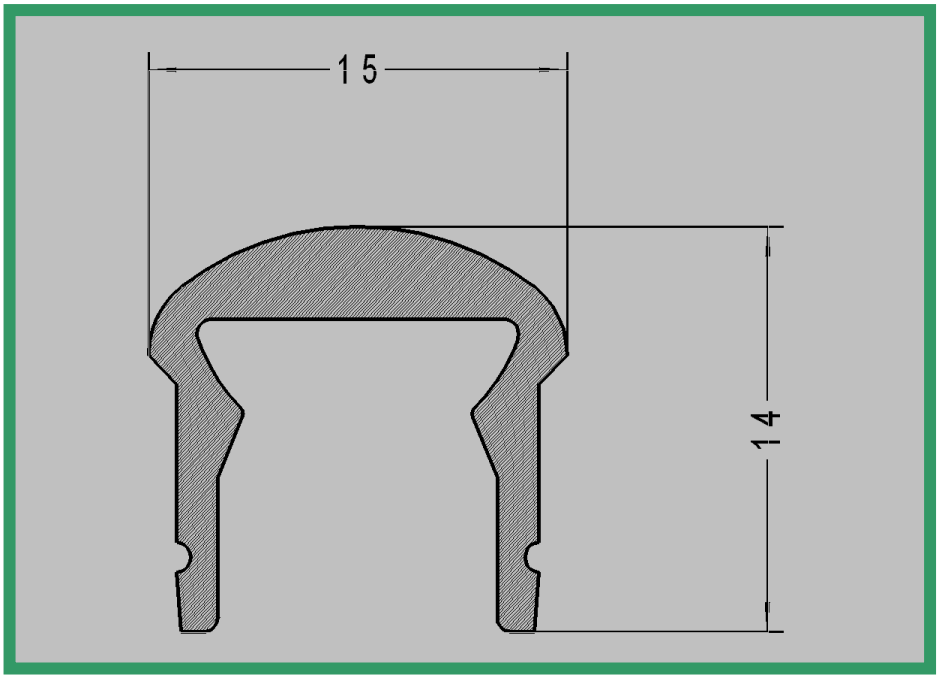


PROFILI LED

Profilo 1010.35
Materiale : POLICARBONATO TRASPARENTE / OPALE

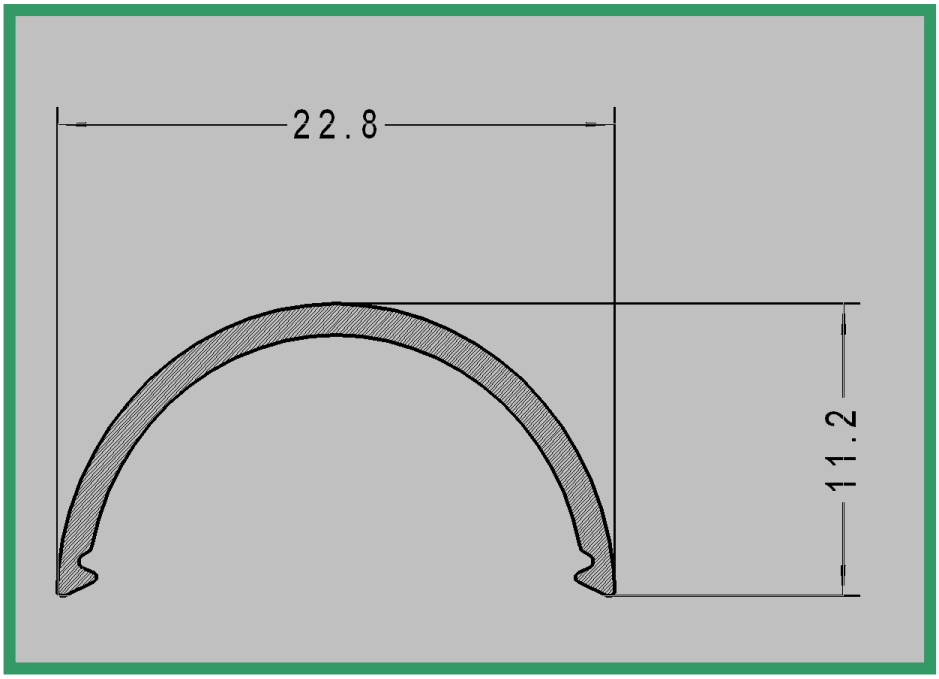


Profilo 1010.37
Materiale : PMMA TRASPARENTE

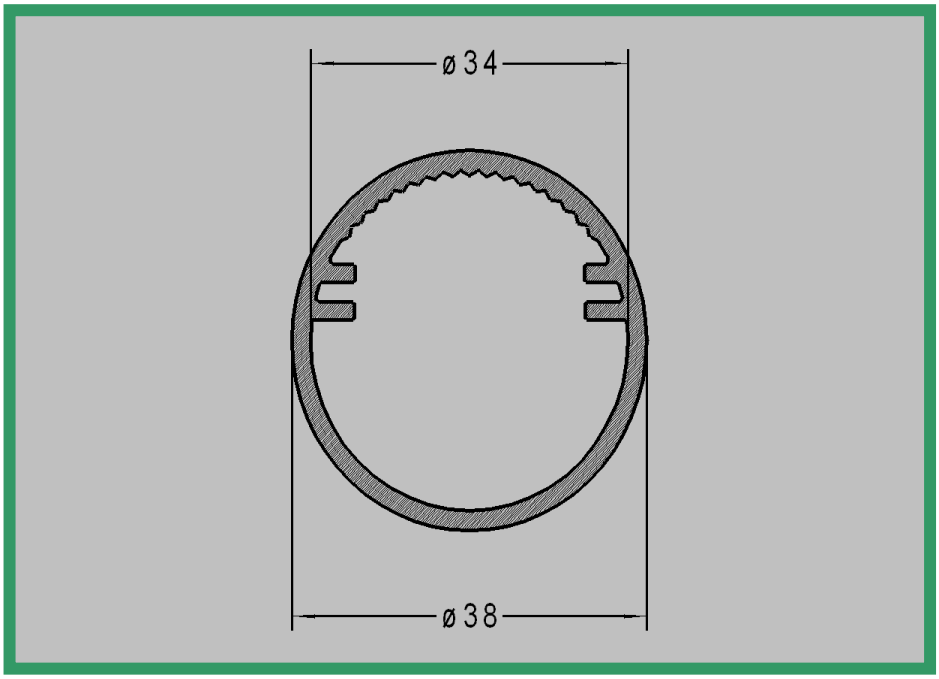


PROFILI LED

Profilo 1010.42
Materiale : PMMA SATINATO

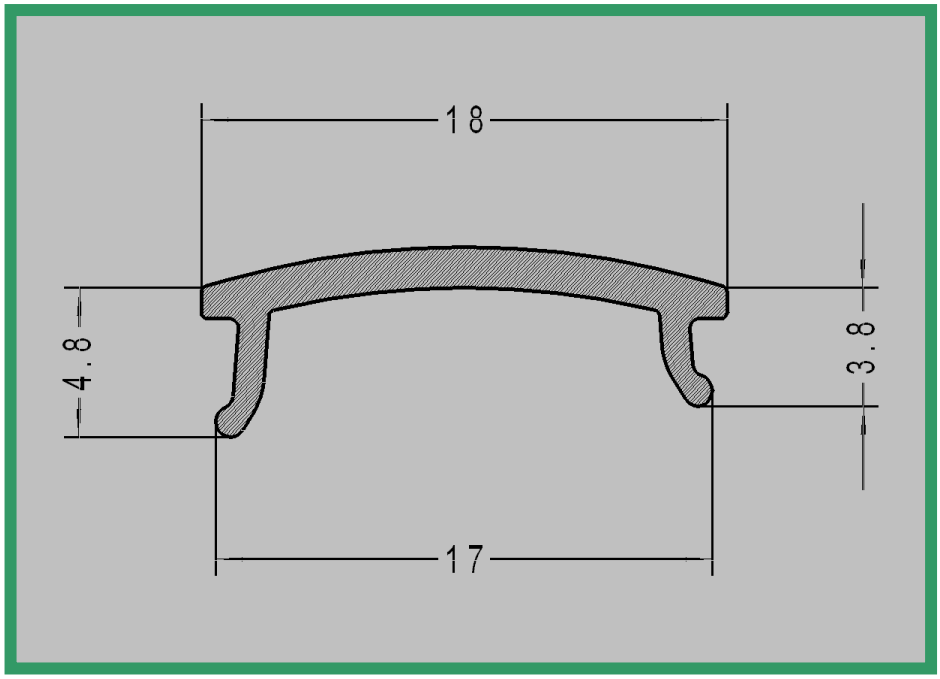


Profilo 1010.45
Materiale : POLICARBONATO TRASPARENTE

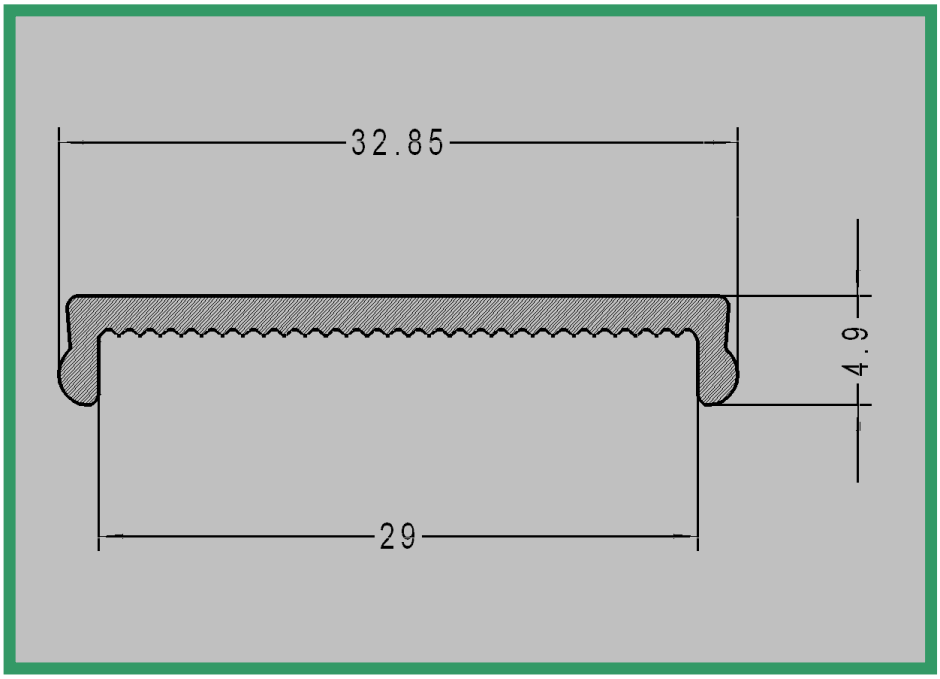


PROFILI LED

Profilo 1010.47
Materiale : POLICARBONATO TRASPARENTE / OPALE

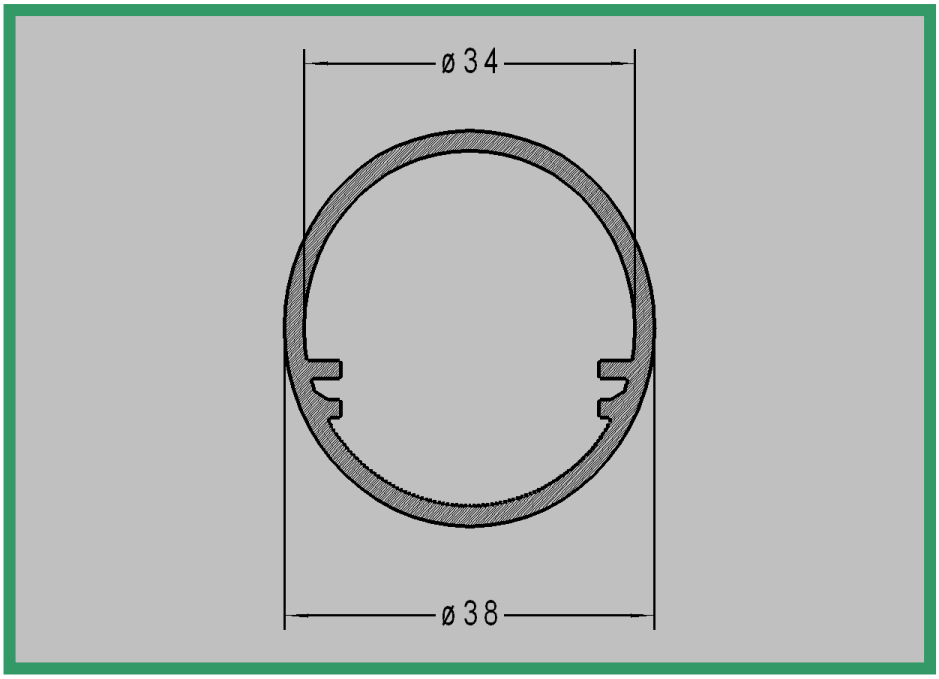


Profilo 1010.50
Materiale : POLICARBONATO TRASPARENTE / OPALE

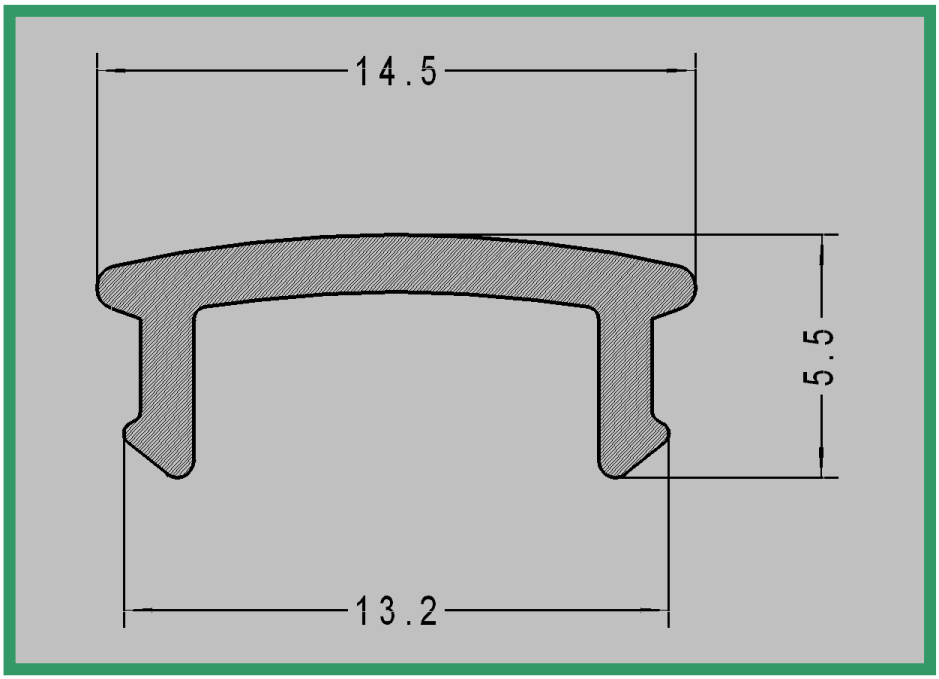


PROFILI LED

Profilo 1010.53
Materiale : POLICARBONATO TRASPARENTE

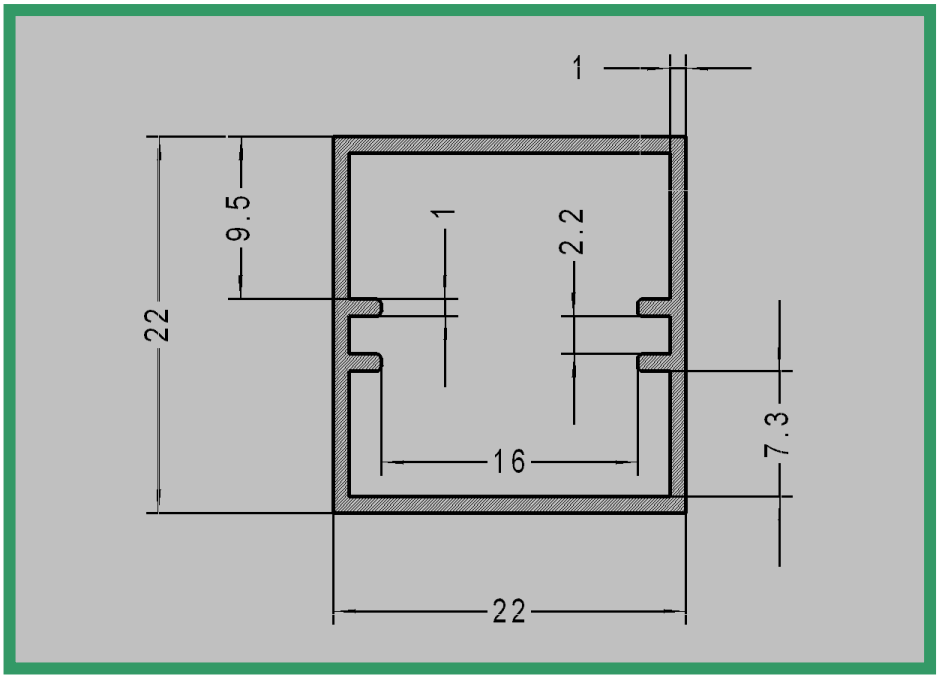


Profilo 1010.54
Materiale : POLICARBONATO TRASPARENTE / OPALE

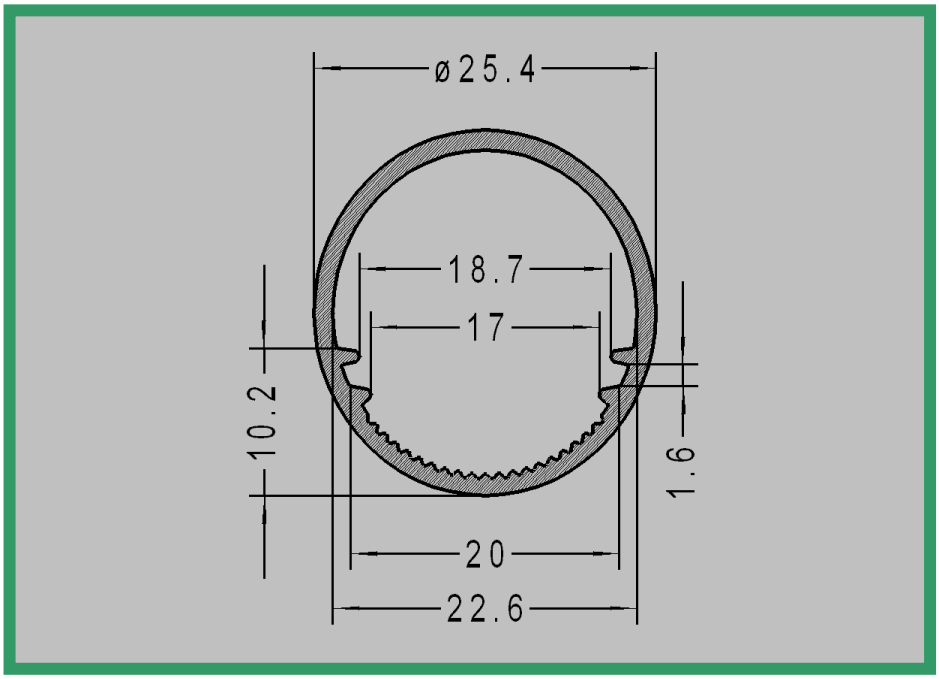


PROFILI LED

Profilo 1010.57
Materiale : POLICARBONATO TRASPARENTE / OPALE

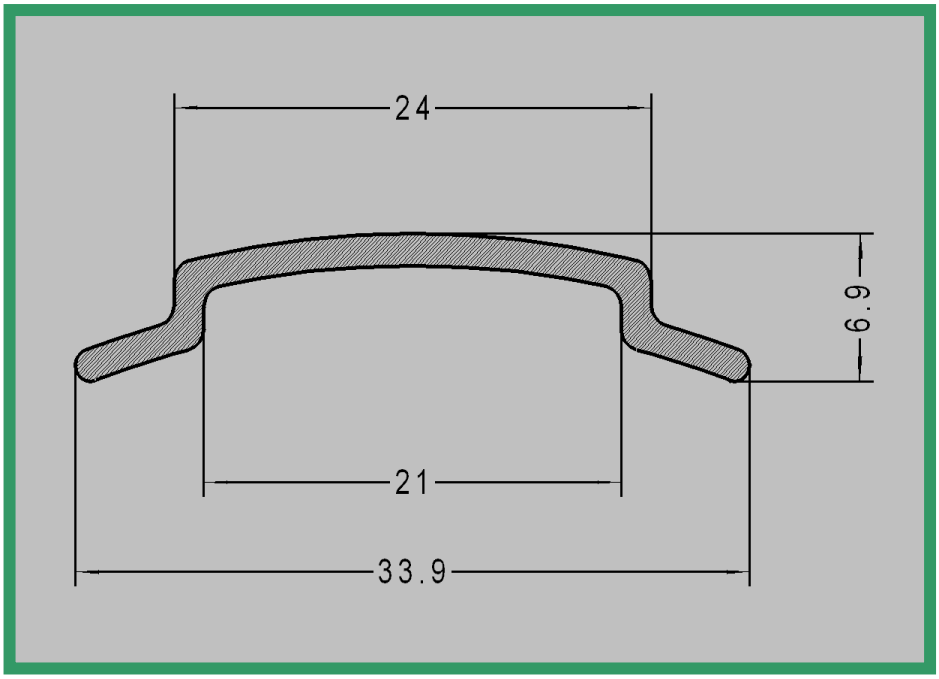


Profilo 1010.59
Materiale : POLICARBONATO TRASPARENTE / OPALE

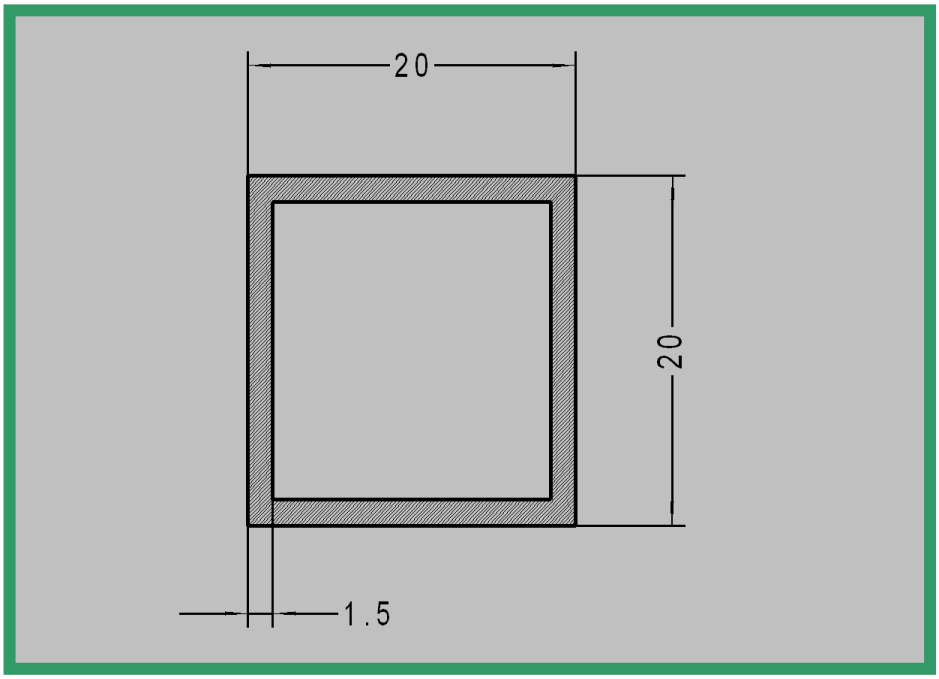


PROFILI LED

Profilo 1010.65
Materiale : POLICARBONATO TRASPARENTE / OPALE

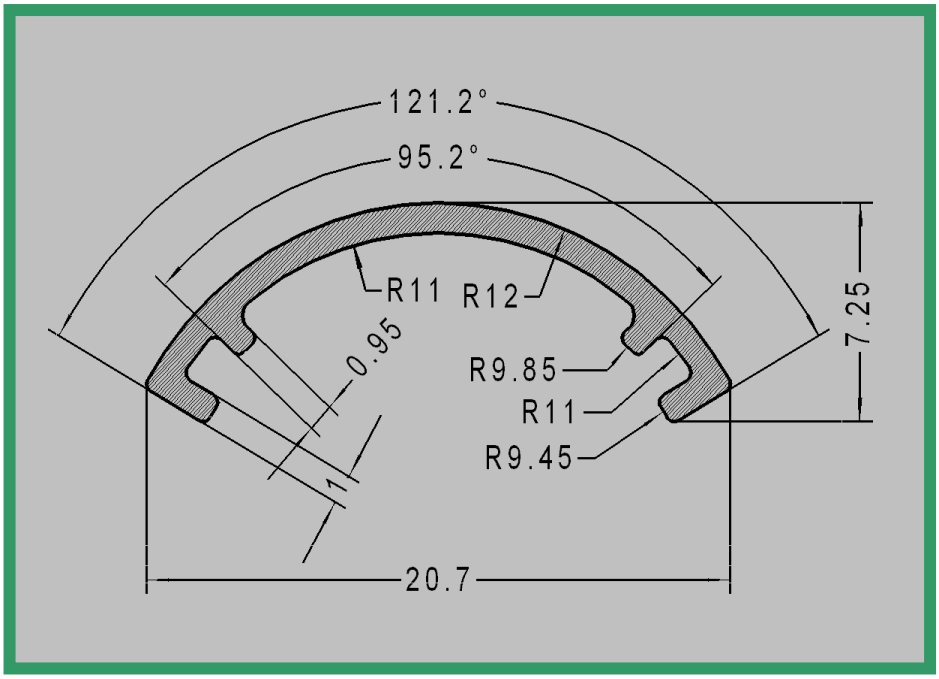


Profilo 1010.67
Materiale : POLICARBONATO TRASPARENTE / OPALE

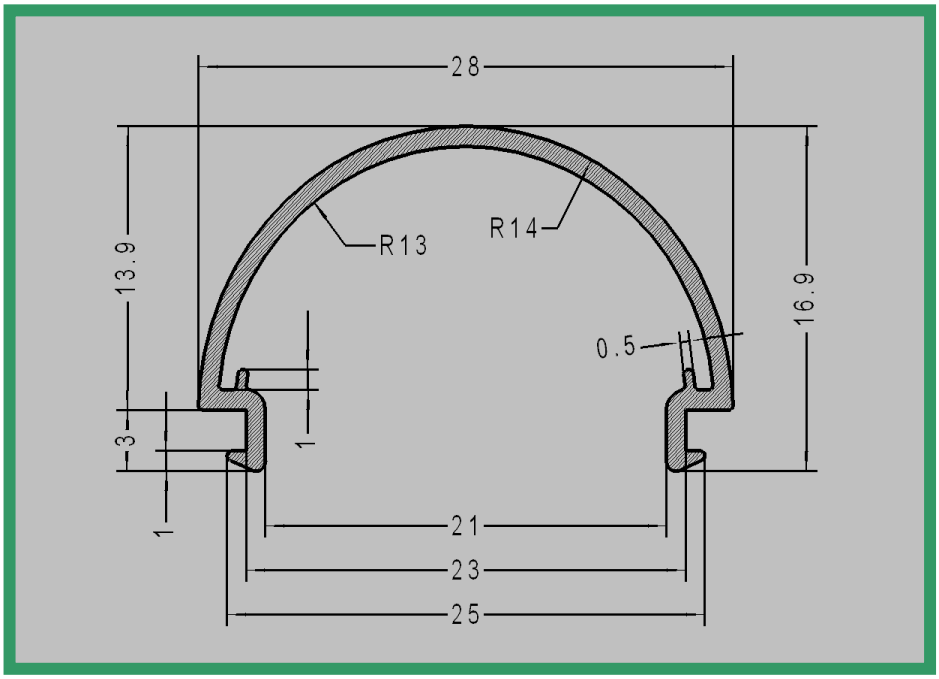


PROFILI LED

Profilo 1010.76
Materiale : POLICARBONATO TRASPARENTE / OPALE

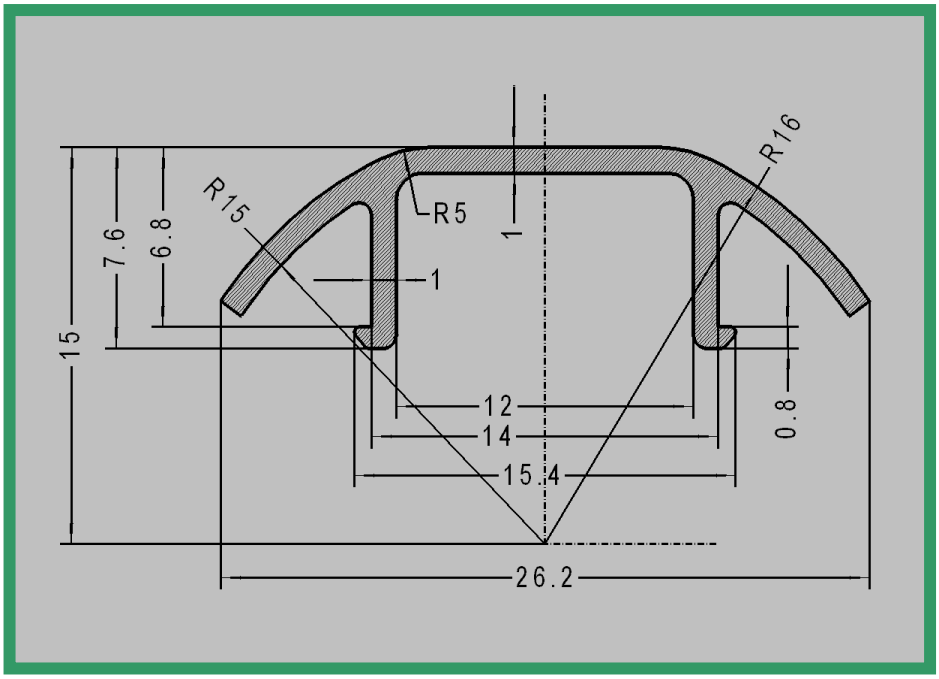


Profilo 1010.81
Materiale : POLICARBONATO TRASPARENTE / OPALE

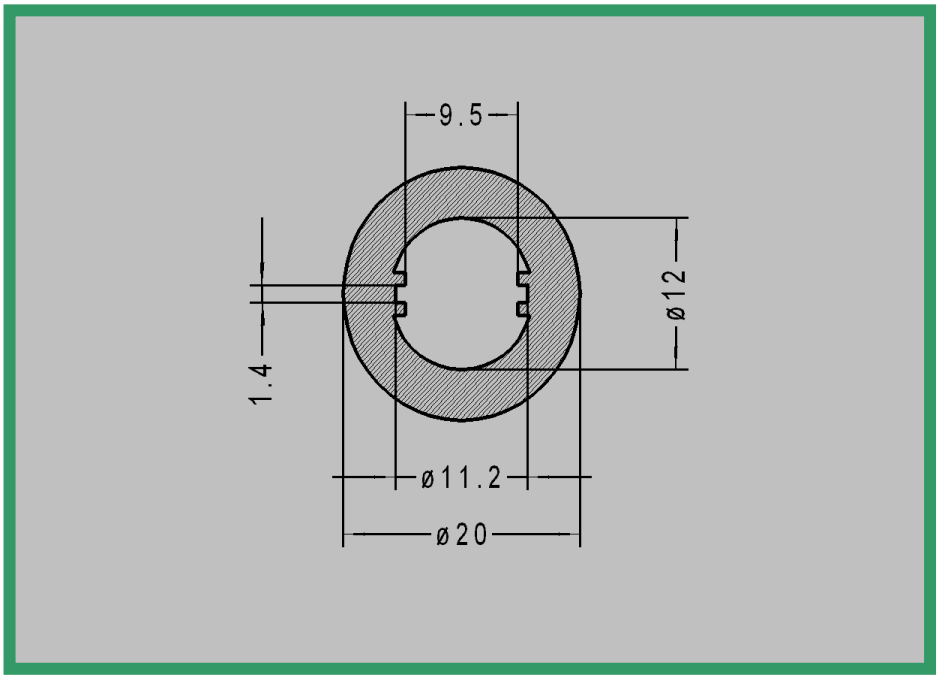


PROFILI LED

Profilo 1010.83
Materiale : POLICARBONATO TRASPARENTE / OPALE

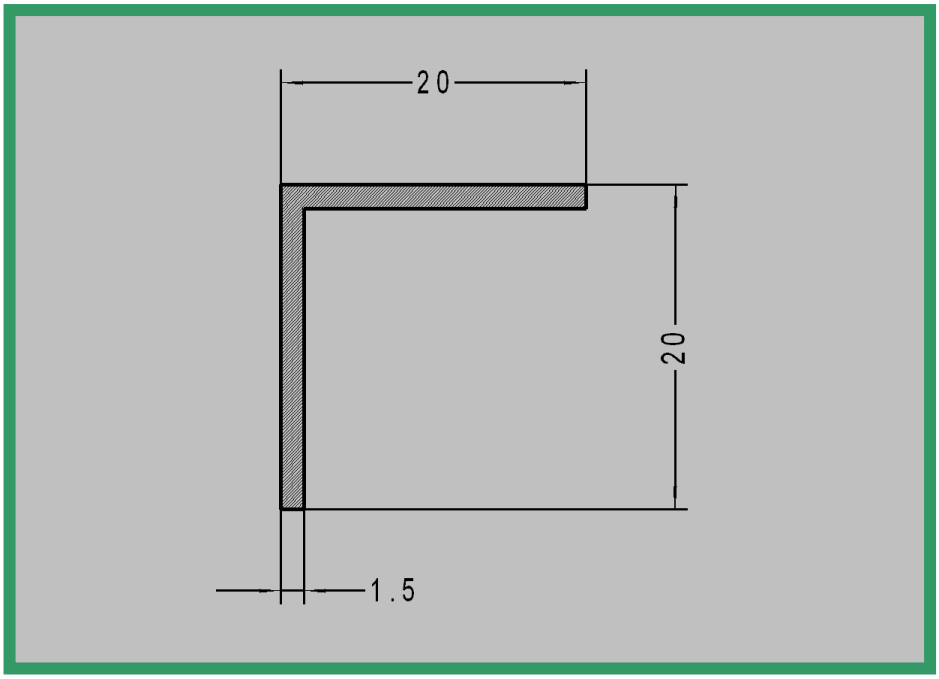


Profilo 1010.84
Materiale : POLICARBONATO TRASPARENTE / OPALE

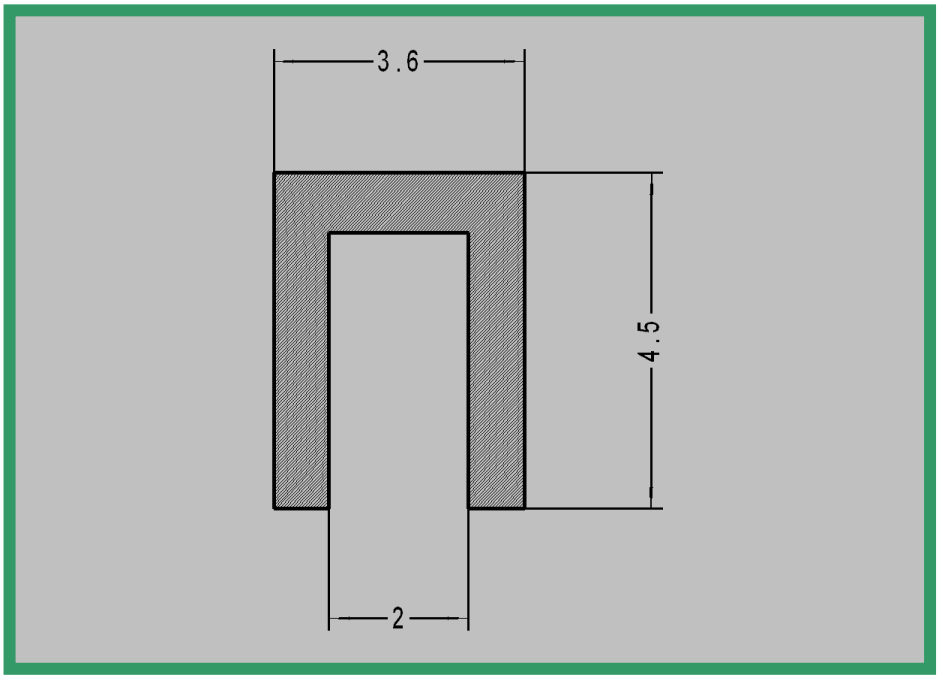


PROFILI LED

Profilo 1010.85
Materiale : PMMA SATINATO

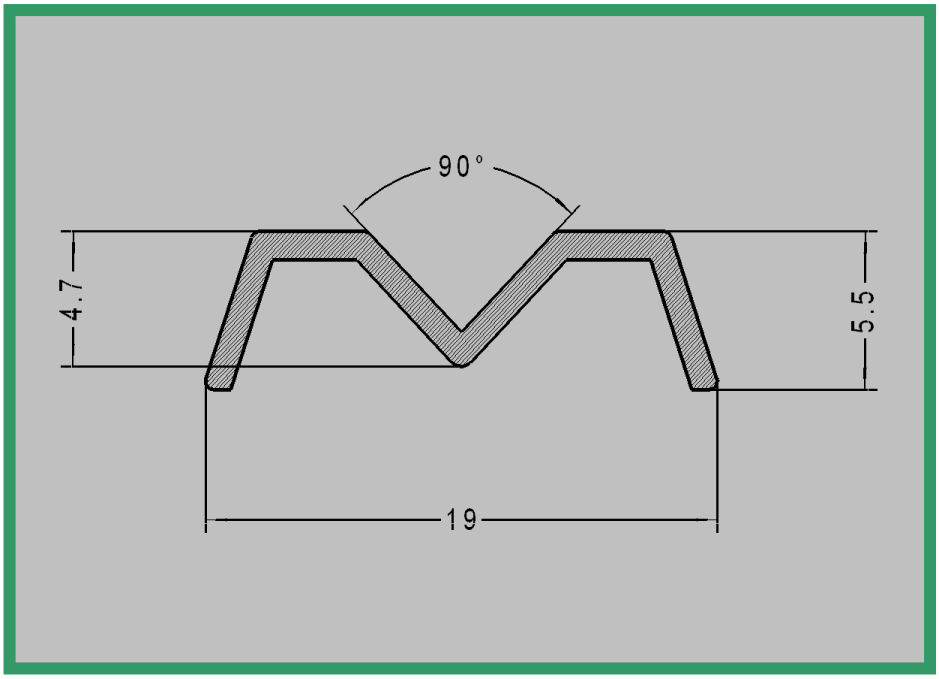


Profilo 1010.88
Materiale : POLICARBONATO TRASPARENTE / OPALE

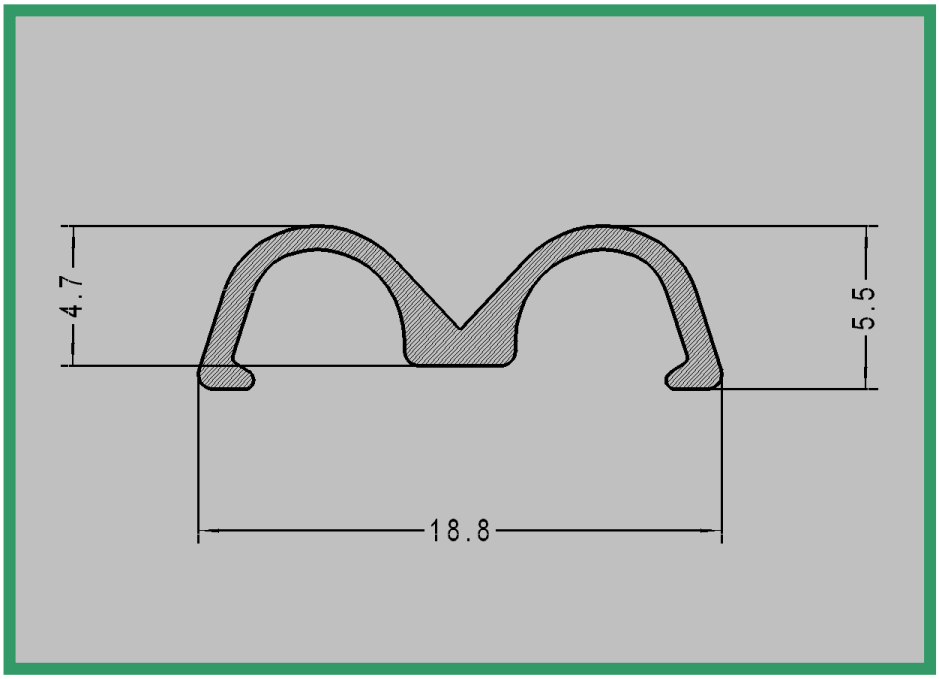


PROFILI LED

Profilo 1010.89
Materiale : POLICARBONATO TRASPARENTE / OPALE

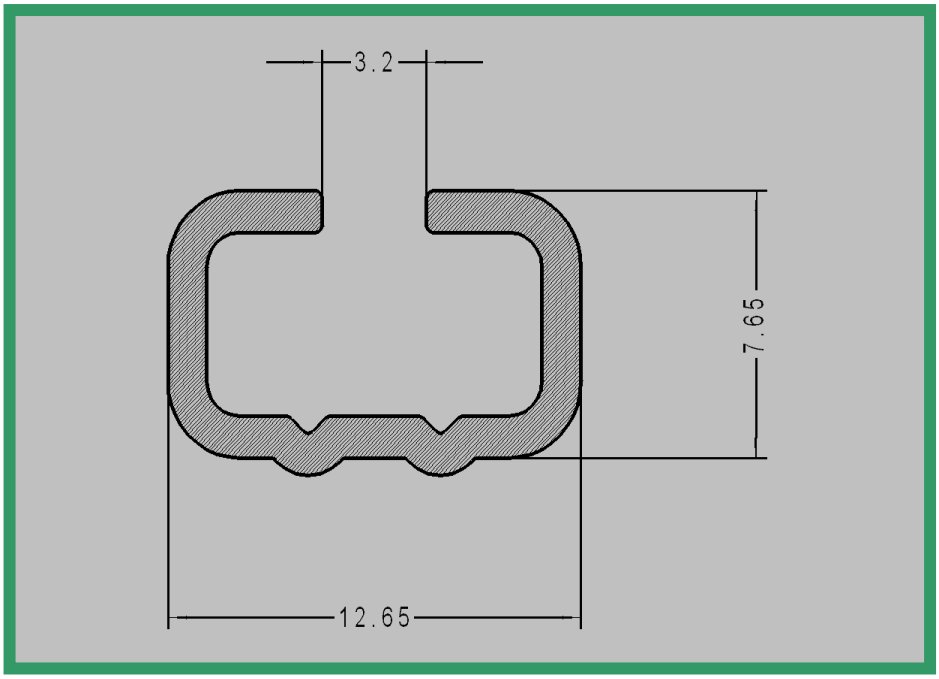


Profilo 1010.90
Materiale : POLICARBONATO TRASPARENTE / OPALE

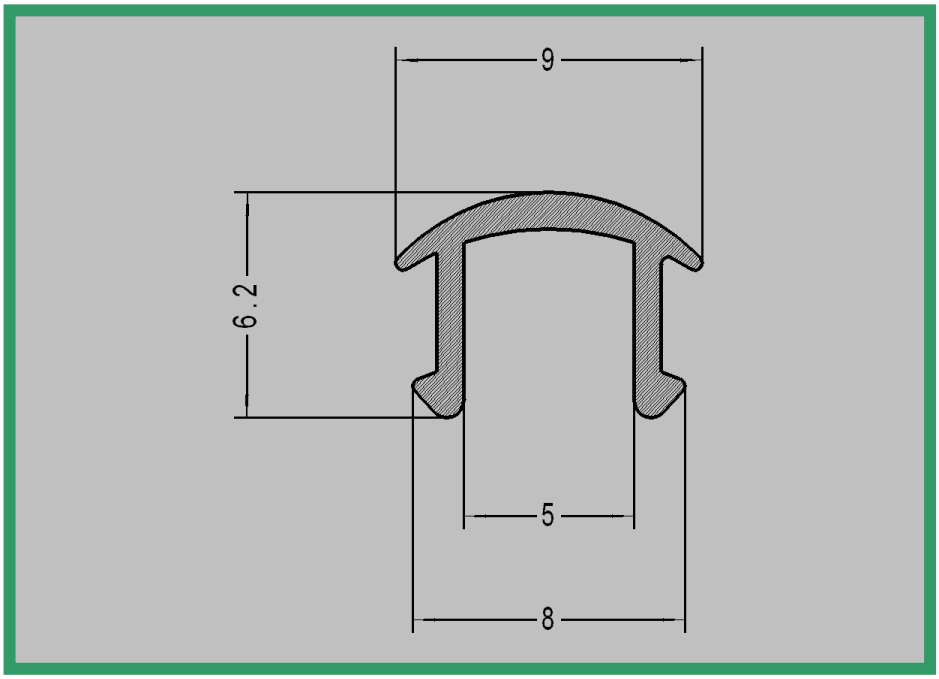


PROFILI LED

Profilo 1010.91
Materiale : POLICARBONATO TRASPARENTE / OPALE

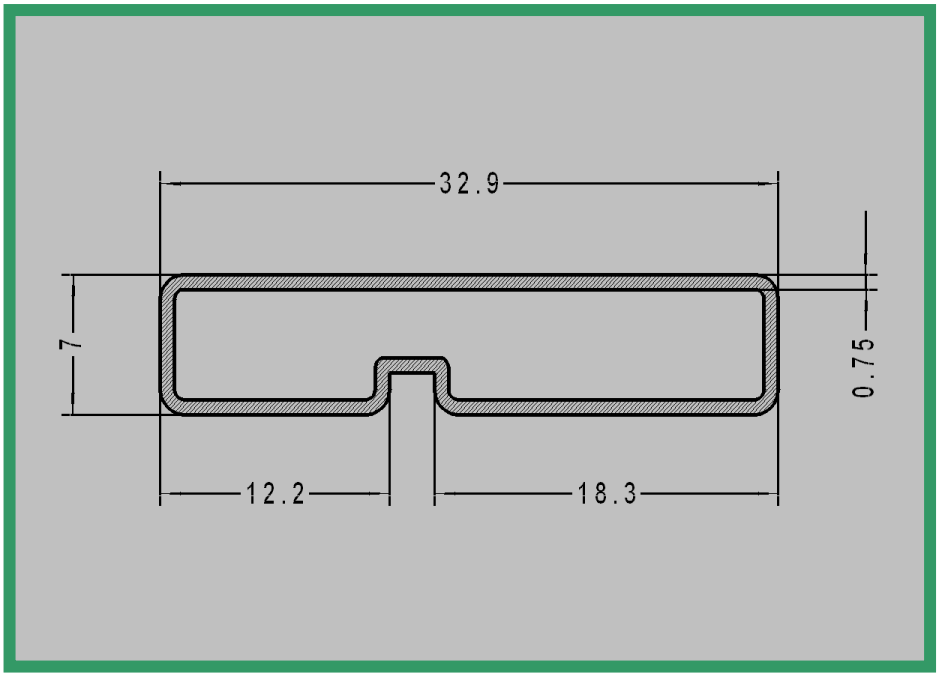


Profilo 1010.92
Materiale : POLICARBONATO TRASPARENTE / OPALE

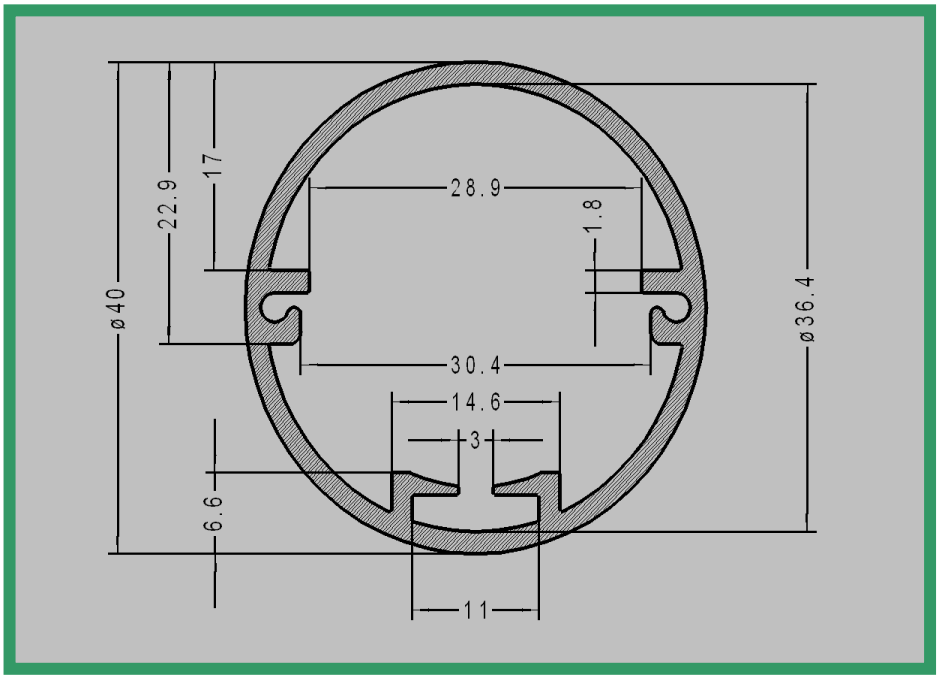


PROFILI LED

Profilo 1010.93
Materiale : POLICARBONATO TRASPARENTE / OPALE

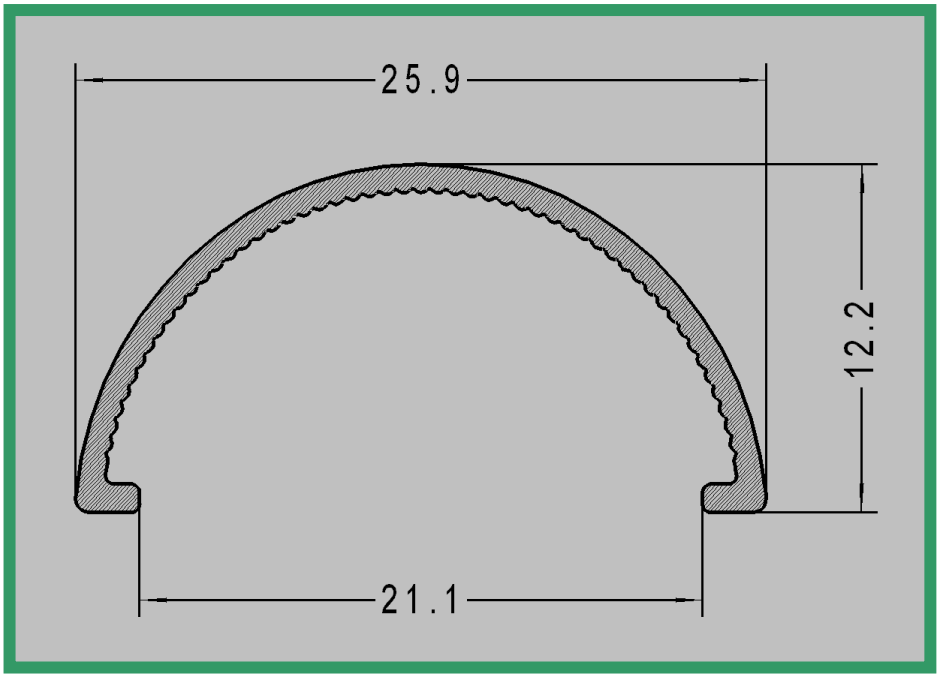


Profilo 1010.94
Materiale : POLICARBONATO TRASPARENTE

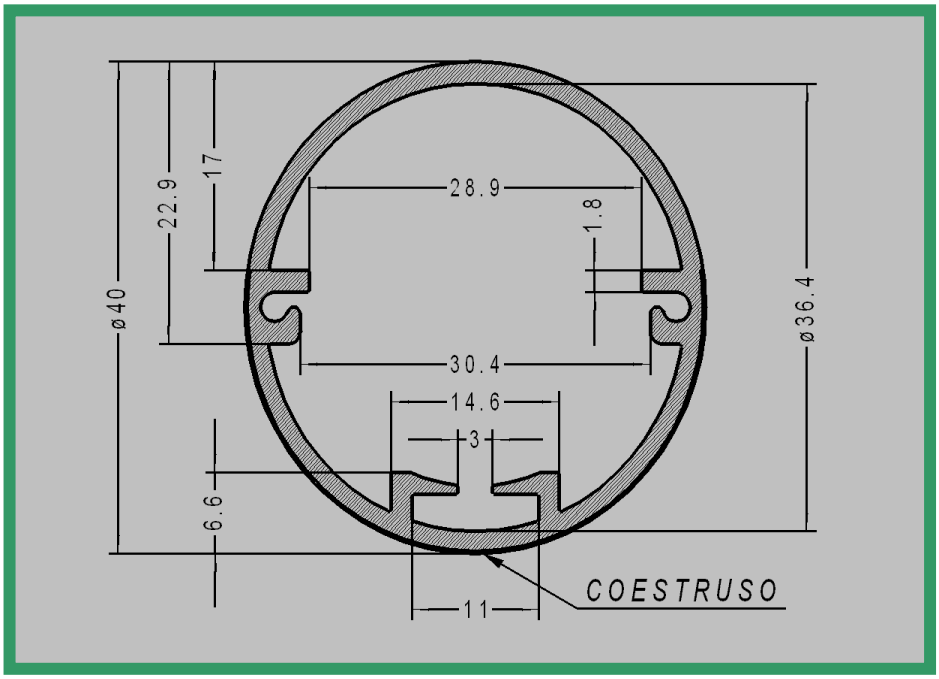


PROFILI LED

Profilo 1010.97
Materiale : POLICARBONATO TRASPARENTE / OPALE

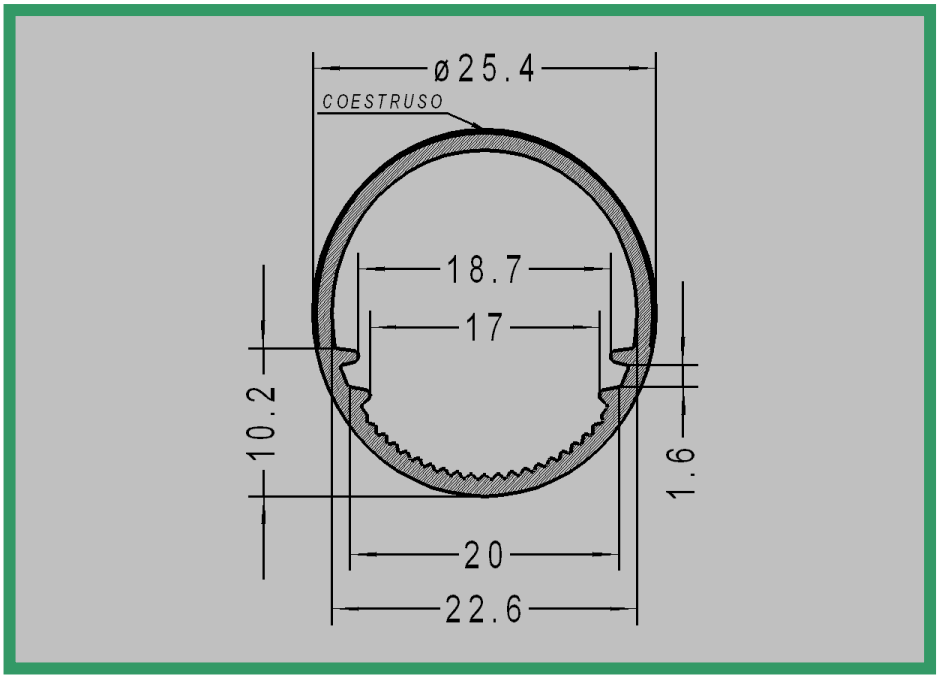


Profilo 1010.98
Materiale : POLICARBONATO COESTRUSO TRASPARENTE

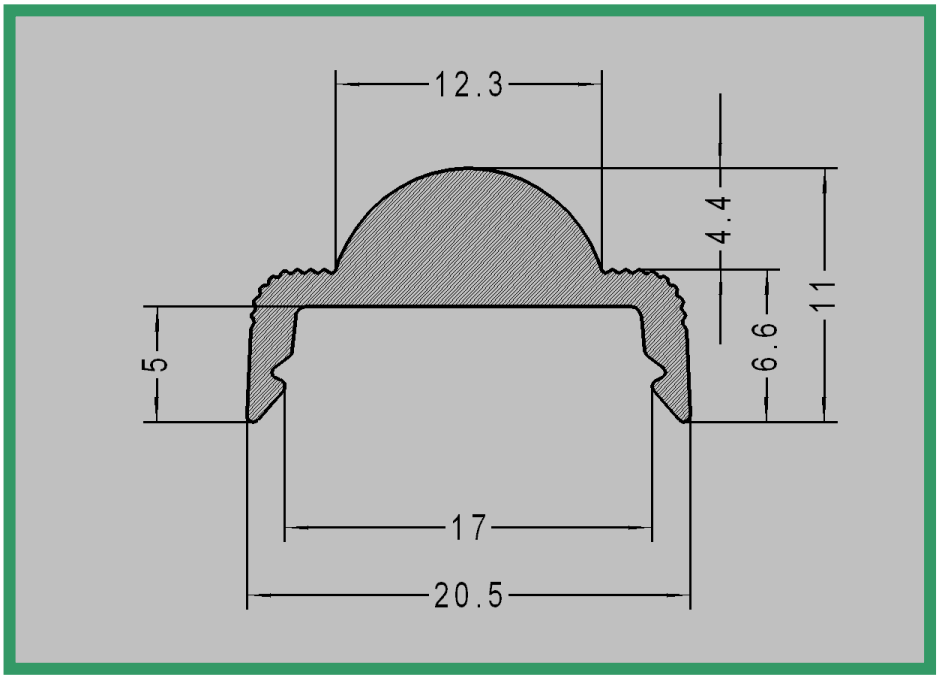


PROFILI LED

Profilo 1010.99
Materiale : POLICARBONATO COESTRUSO TRASPARENTE / OPALE

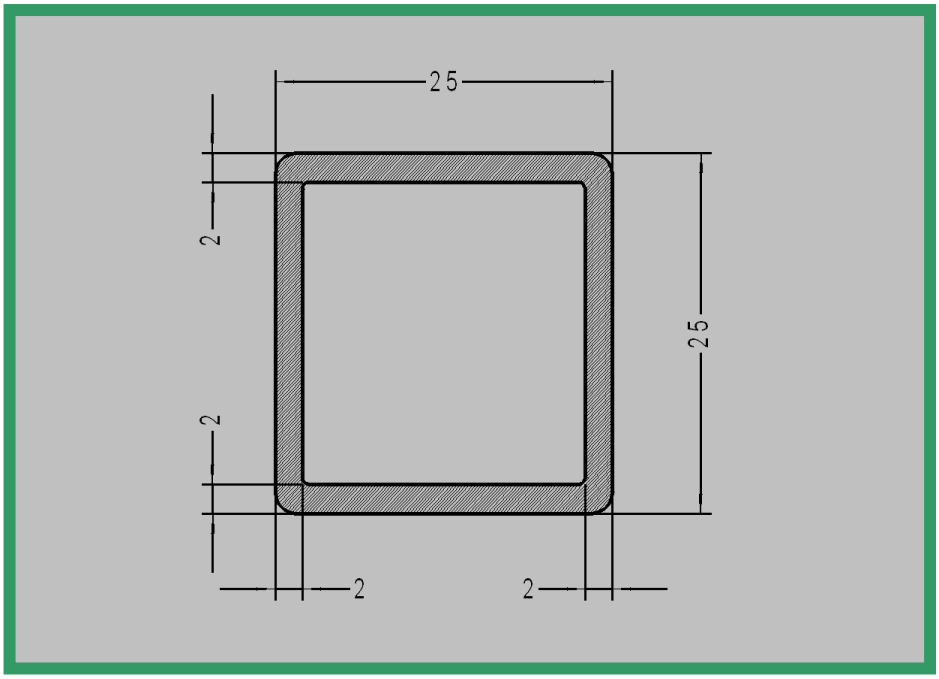


Profilo 1010.106
Materiale : POLICARBONATO / PMMA TRASPARENTE

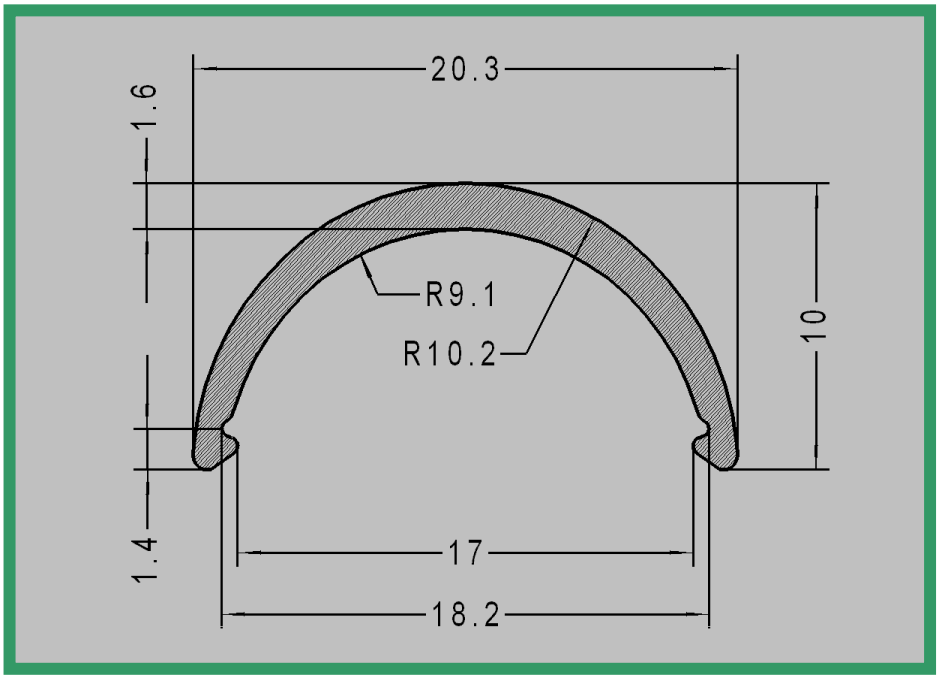


PROFILI LED

Profilo 1010.108
Materiale : POLICARBONATO TRASPARENTE / OPALE / SATINATO

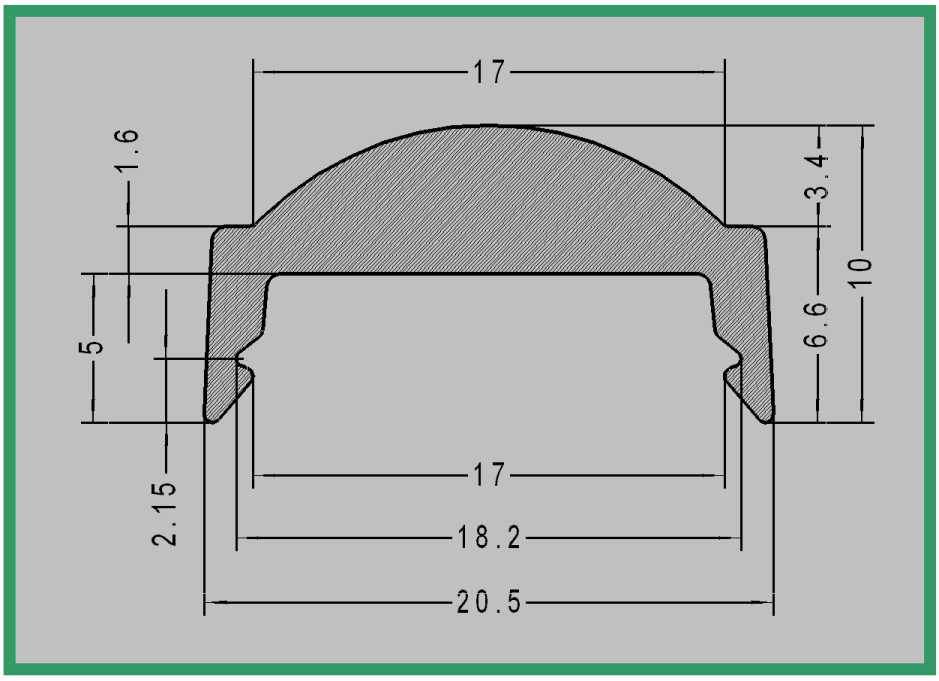


Profilo 1010.111
Materiale : PMMA TRASPARENTE / SATINATO

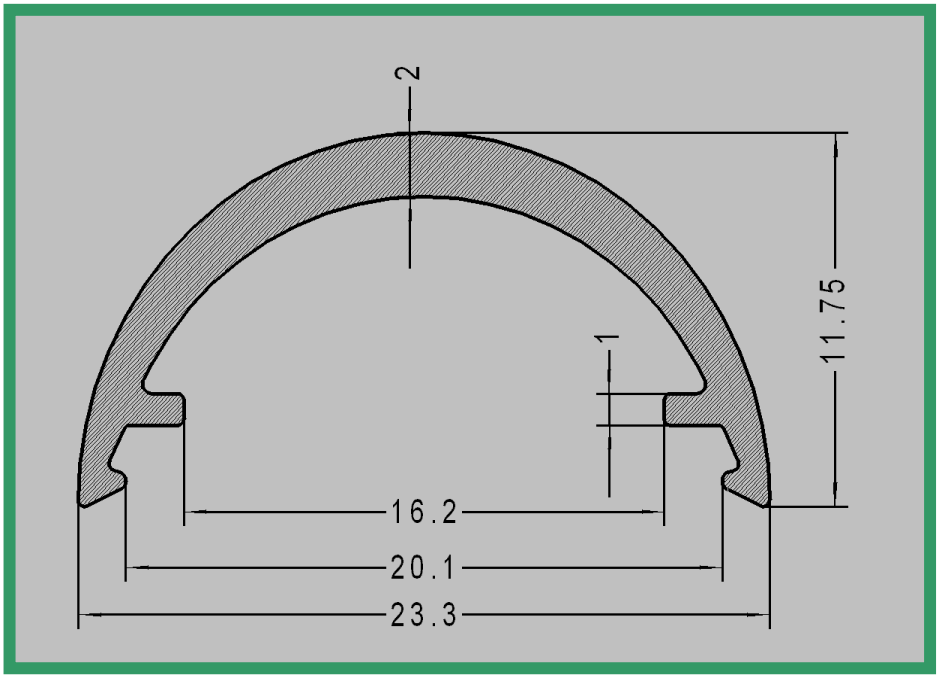


PROFILI LED

Profilo 1010.112
Materiale : POLICARBONATO / PMMA TRASPARENTE

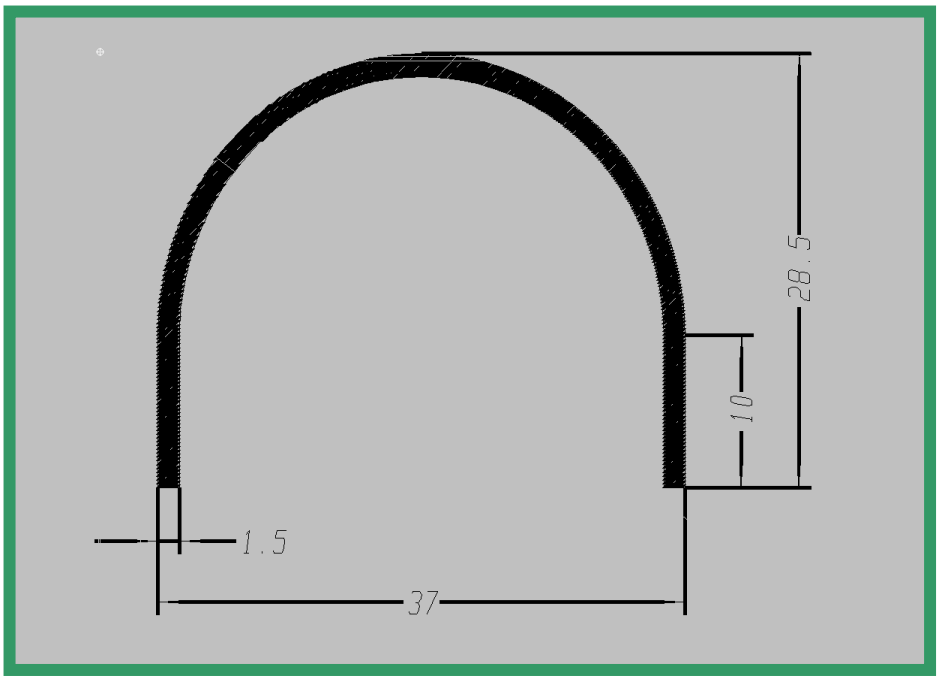


Profilo 1010.113
Materiale : POLICARBONATO TRASPARENTE / OPALE

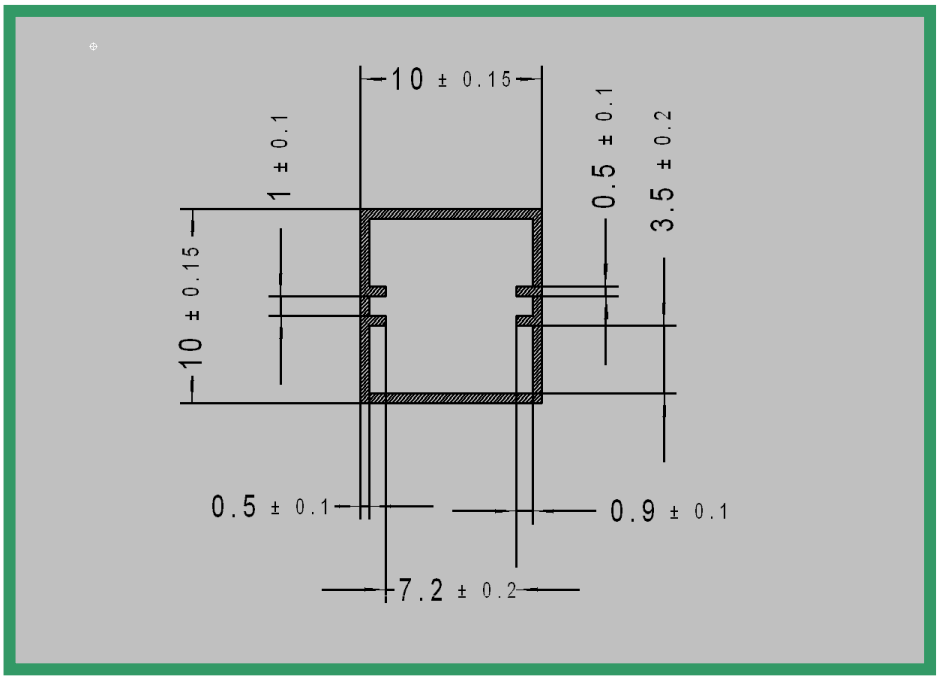


PROFILI LED

Profilo 1010.115
Materiale : POLICARBONATO TRASPARENTE / OPALE

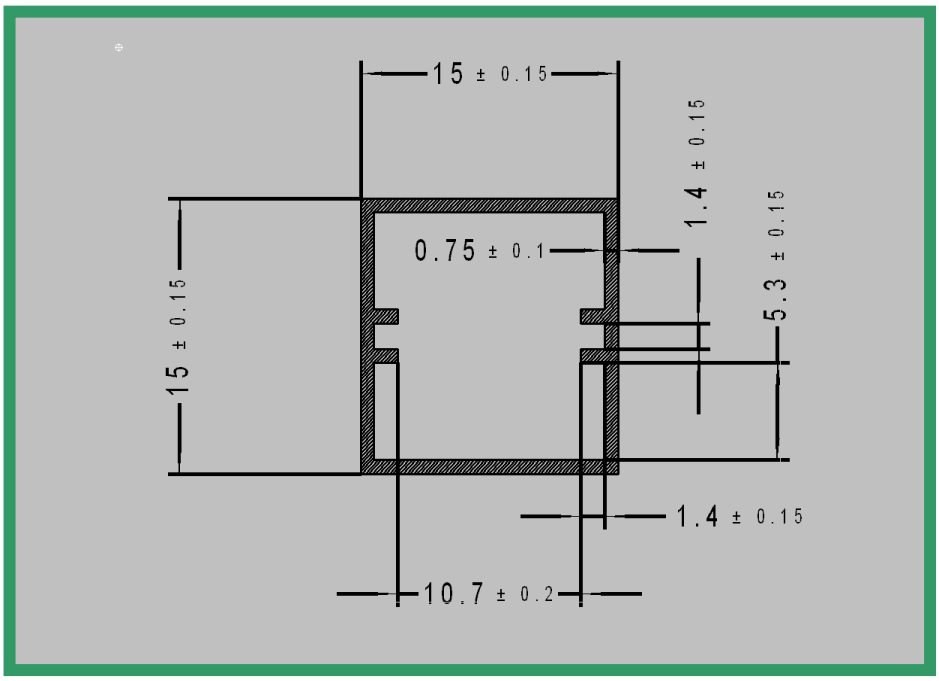


Profilo 1010.116
Materiale : POLICARBONATO TRASPARENTE / OPALE

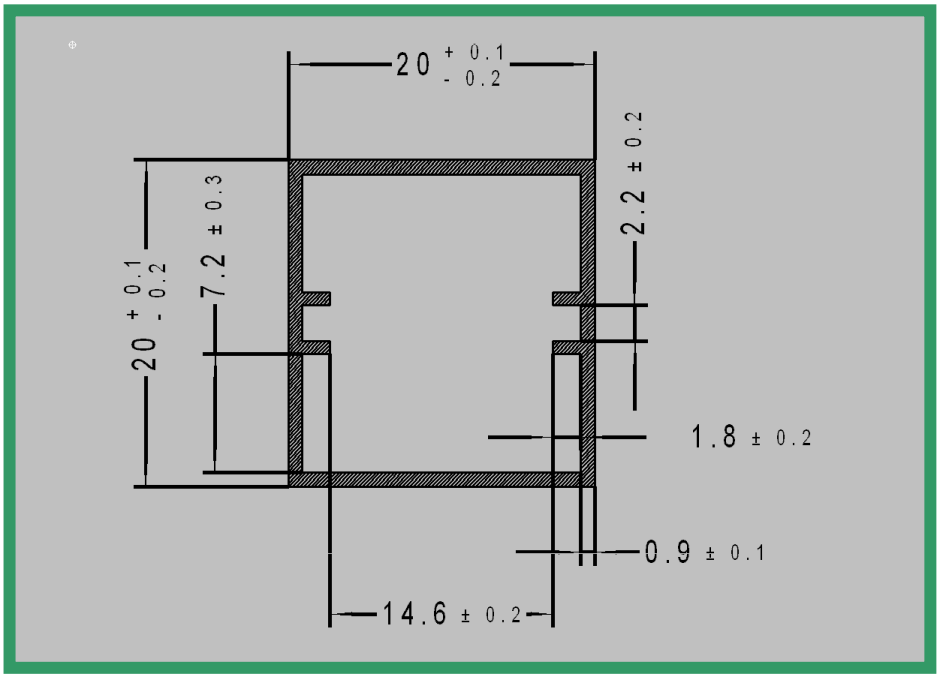


PROFILI LED

Profilo 1010.117
Materiale : POLICARBONATO TRASPARENTE / OPALE

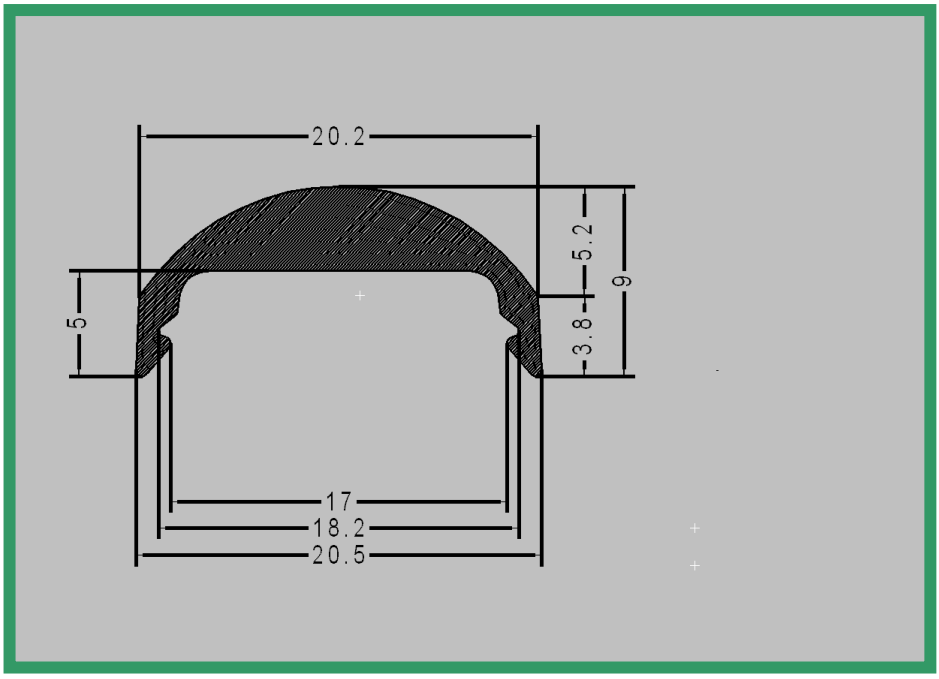


Profilo 1010.118
Materiale : POLICARBONATO TRASPARENTE / OPALE

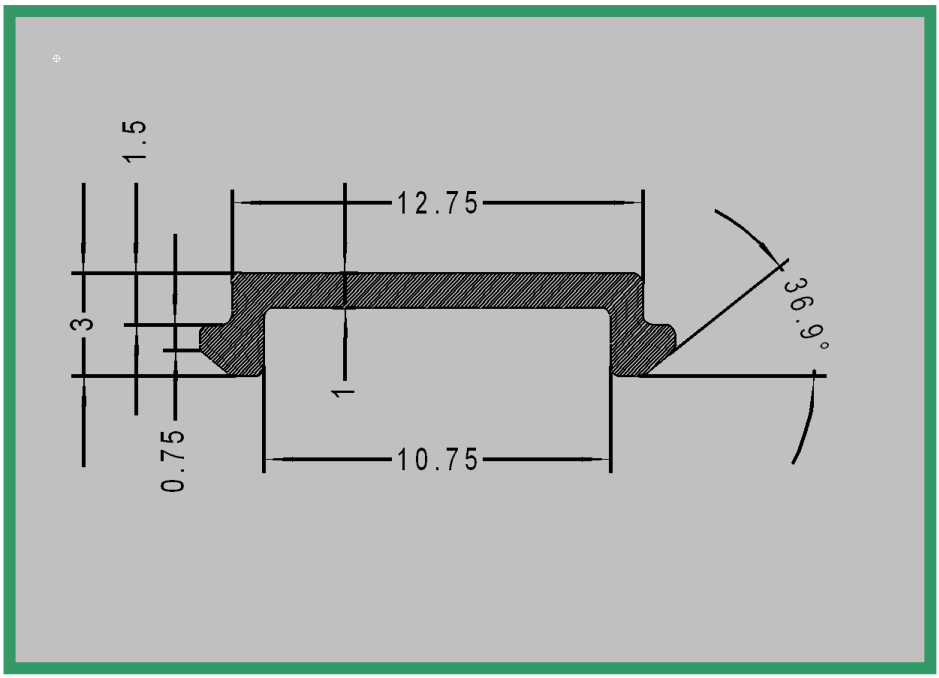


PROFILI LED

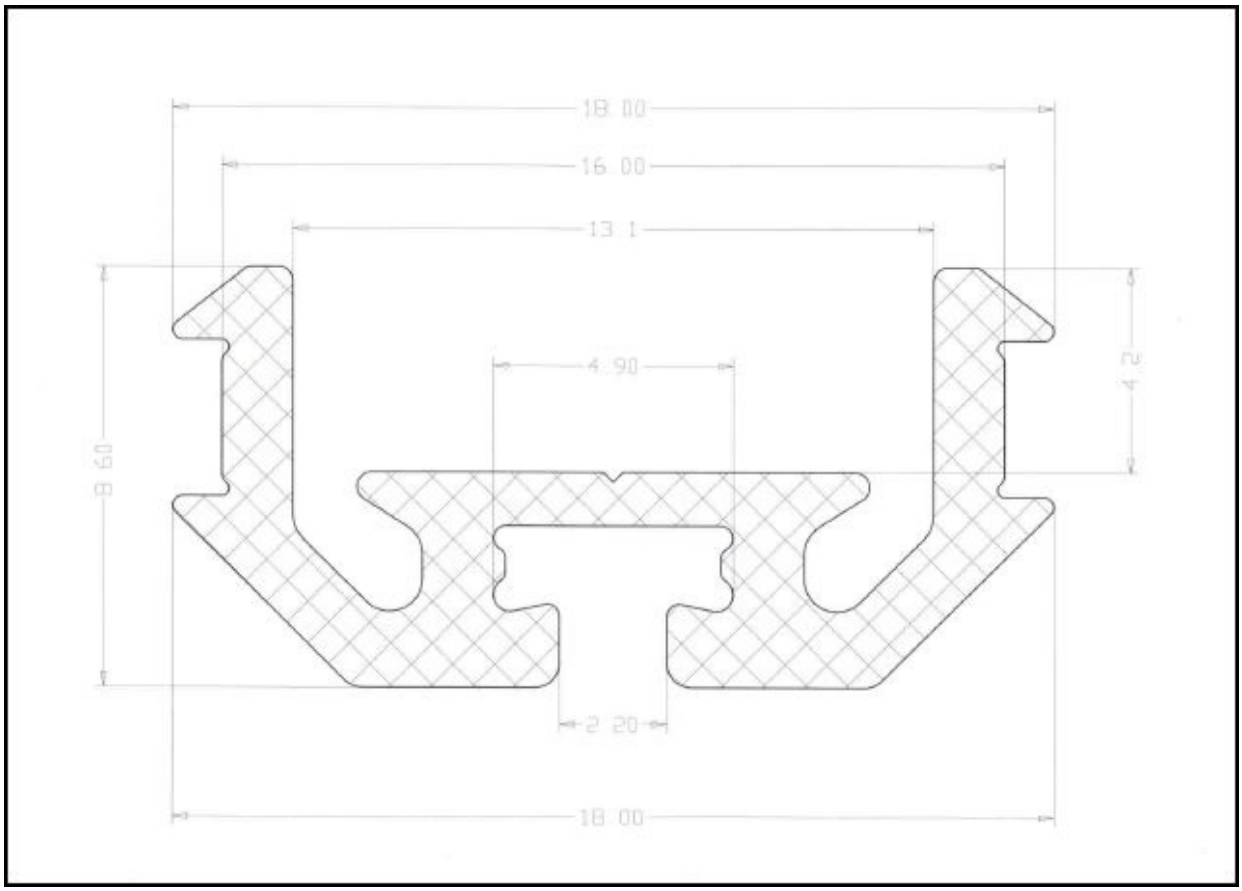
Profilo 1010.119
Materiale : POLICARBONATO / PMMA TRASPARENTE



Profilo 1010.120
Materiale : POLICARBONATO TRASPARENTE / OPALE



PROFILO ALLUMINIO LED



DATI TECNICI MATERIALI UTILIZZATI

PROPRIETA' FISICHE DEL POLICARBONATO	VALORE DI MISURA	UNITA'	STANDARD
CARATTERISTICHE MECCANICHE			
Peso specifico	1,20	g/cm_3	DIN 53479
Resilienza (provino unificato ridotto)	Ness. Rott	kJ/m_2	DIN 53453
Resilienza alla intaccatura (provino unificato ridotto)	20	kJ/m_2	DIN 53453
Resistenza a trazione (1/1 provino 3; V= 5 mm. / 1 min)	60	N/mm_2	DIN 53455
Allungamento a strappo (1/1 provino 3; V= 5 mm. / 1 min)	6	%	DIN 53455
Resistenza a flessione (provino 80 x 10 x 4 mm.)	95	N/mm_2	DIN 53452
Tensione di snervamento a compressione	70	N/mm_2	DIN 53454
Modulo di elasticità	2300	N/mm_2	DIN 53457
Durezza BRINELL a caduta di sfera H961/30	100	N/mm_2	DIN 53456
CARATTERISTICHE OTTICHE			
Fattore di trasmissione del materiale da 3 mm. nel campo visivo	~ 88	%	DIN 5036
Indice di rifrazione $n_{20\ D}$	1,586		DIN 53491
CARATTERISTICHE TERMICHE			
Coefficiente di dilatazione lineare per 0 .. 50 °C	68 - 10_{-6}	1/°C	VDE 0304/1
Conducibilità termica	0,2	W/m_2C	DIN 52612
Temperatura di formatura (temperatura del forno)	~ 195	°C	
Temperatura di rinvenimento	> 120	°C	
Massima temperatura di esercizio continua	110	°C	
Temperatura di rammollimento VICAT procedimento B	150	°C	DIN 53460
Indeformabilità termica ISO 75 sollecitazione di flessione 1,80 N/mm_2	135	°C	DIN 53461
Indeformabilità termica sec. Martens	125	°C	DIN 53458
CARATTERISTICHE ELETTRICHE			
Resistenza specifica	$>10_{16}$	Ohm-cm	DIN 53482
Resistenza in superficie	$> 10_{15}$	Ohm	DIN 53482
Resistenza alla perforazione (prova su 1 mm.)	> 70	kV/mm	DIN 53481
Costante dielettrica a 50 Hz	2,7		DIN 53483
Costante dielettrica a 1 MHz	2,7		DIN 53483
Fattore di perdita dielettrica a 50 Hz	0,001		DIN 53483
Fattore di perdita dielettrica a a 1 MHz	0,01		DIN 53483
COMPORTAMENTO IN ACQUA			
Assorbimento d'acqua in aumento di peso dopo 24 ore di immersione	0,3	%	DIN 53495

PROPRIETA' FISICHE DEL PMMA / METACRILATO	VALORE DI MISURA	UNITA'	STANDARD
CARATTERISTICHE MECCANICHE			
Peso specifico	1,18	g/cm_3	DIN 53479
Resilienza (provino unificato ridotto)	12	kJ/m_2	DIN 53453
Resilienza alla intaccatura (provino unificato ridotto)	2	kJ/m_2	DIN 53453
Resistenza a trazione (1/1 provino 3; V= 5 mm. / 1 min)	72	N/mm_2	DIN 53455
Allungamento a strappo (1/1 provino 3; V= 5 mm. / 1 min)	4,5	%	DIN 53455
Resistenza a flessione (provino 80 x 10 x 4 mm.)	105	N/mm_2	DIN 53452
Tensione di snervamento a compressione	103	N/mm_2	DIN 53454
Modulo di elasticità	3300	N/mm_2	DIN 53457
Modulo di elasticità tangenziale a ca. 10 Hz	1700	N/mm_2	DIN 53445
Durezza BRINELL a caduta di sfera H961/30	190	N/mm_2	DIN 53456
CARATTERISTICHE OTTICHE			
Fattore di trasmissione del materiale da 3 mm. nel campo visivo	~ 92	%	DIN 5036
Indice di rifrazione $n_{20\ D}$	1,491		DIN 53491
CARATTERISTICHE TERMICHE			
Coefficiente di dilatazione lineare per 0 .. 50 °C	$70 - 10_{-6}$	1/°C	VDE 0304/1
Conducibilità termica	0,19	W/m_2C	DIN 52612
Fattore di trasmissione del calore			
per lo spessore di 3 mm.	5,6	W/m_2C	DIN 4701
per lo spessore di 10 mm.	4,4	W/m_2C	DIN 4701
Temperatura di formatura (temperatura del forno)	~ 150	°C	
Temperatura di rinvenimento	> 80	°C	
Massima temperatura di esercizio continua	70	°C	
Temperatura di rammollimento VICAT procedimento B	102	°C	DIN 53460
Indeformabilità termica ISO 75 sollecitazione di flessione 1,80 N/mm_2	90	°C	DIN 53461
Indeformabilità termica sec. Martens	85	°C	DIN 53458
CARATTERISTICHE ELETTRICHE			
Resistenza specifica	$>10_{15}$	Ohm-cm	DIN 53482
Resistenza in superficie	$5 - 10_{13}$	Ohm	DIN 53482
Resistenza alla perforazione (prova su 1 mm.)	~ 30	kV/mm	DIN 53481
Costante dielettrica a 50 Hz	3,6		DIN 53483
Costante dielettrica a 0,1 MHz	2,7		DIN 53483
Fattore di perdita dielettrica a 50 Hz	0,06		DIN 53483
Fattore di perdita dielettrica a a 0,1 MHz	0,02		DIN 53483
Resistenza alle correnti vaganti	KC>600		DIN 53480
COMPORTAMENTO IN ACQUA			
Assorbimento d'acqua in aumento di peso dopo 24 ore di immersione	0,3	%	DIN 53495