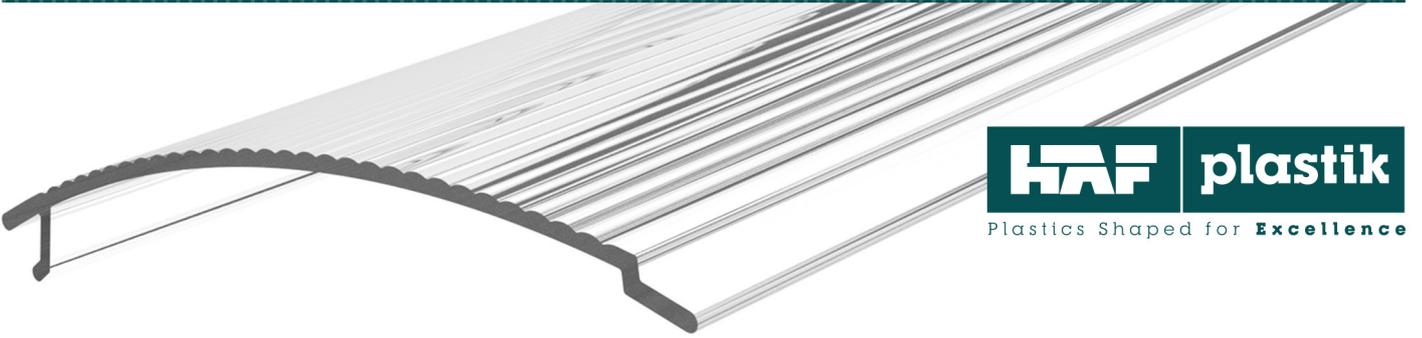


**STANDART  
AYDINLATMA PROFİLLERİ**

---

*STANDARD  
LIGHTING PROFILES*



**HAF** plastik  
Plastics Shaped for Excellence

**Geleceđi aydınlatmanıza katkıda bulunalım.**

*Let us help you illuminate the future.*

Aydınlatma sektörünün önde gelen tedarikçisi HAF Plastik, her türlü aydınlatma profilinin çözüm mimarı olarak bilinmekten gurur duyar!

Biz, aydınlatmanın sadece ışık vermekten öte bir şey olduğuna inanıyoruz. Işığı, atmosfer yaratma, mekanları şekillendirme ve deneyimleri artırma aracı olarak görüyoruz. Tasarımı estetikle, mühendisliği işlevsellikle birleştirerek, özel olarak tasarlanmış aydınlatma profilleri üretiyoruz. Bu, mükemmeliyet inancımız ve işimize olan bağlılığımızın bir yansımasıdır.

HAF Plastik olarak, müşteri odaklı çalışma prensibini misyonumuzun temeli olarak kabul ediyoruz. Geleceğe dönük yaklaşımımız, yaratıcılık, mühendislik ve teknolojinin sunduğu yeni imkanlarla desteklenmektedir. Bu yaklaşım, müşterilerimiz için somut fayda sağladığında, HAF Plastik güvenebileceğiniz kararlı bir iş ortağı haline gelir.

Plastik profil sektöründe güvenilir çözüm ortağınız olarak size HAF Plastik'e hoş geldiniz diyoruz!

*As a leading supplier in the industry, we take immense pride in introducing ourselves as the solution architects for your lighting needs. HAF Plastik is your gateway to innovation, quality, and unparalleled expertise.*

*At HAF Plastik, we understand that lighting isn't just about illumination; it's about creating an atmosphere, shaping spaces, and enhancing experiences. With a visionary approach to design, development, and supply, we craft technical plastic profiles and parts that embody both functionality and aesthetics. Our commitment to excellence is evident in every aspect of our work.*

*At HAF Plastik, customer orientation isn't just a word – it's the cornerstone of our existence. Creativity, engineering, and cutting-edge technology converge seamlessly within our organization, fostering an environment of innovation. This synergy translates into benefits for our clients, making us the steadfast partner they can rely on, project after project.*

*Welcome to HAF Plastik, your dedicated partner for extruded plastic profiles.*

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## Hizmetler Services

Konsept geliřtirmek, ideal tasarım çözümlü için gerekli ilk adımdır. HAF Plastik olarak amacımız müşterilerimizin ihtiyaçlarını tanımlamak ve müşterilerimizle beraber, onların ihtiyaçlarına yönelik, özelleřtirilmiř yenilikçi ürün geliřtirmektir.

*Concept development is the initial step to the best lighting solution. At HAF Plastik, we aim to identify the needs of our customers and work together on developing innovative products tailored to the demands of this fast-changing field.*



## Ürün Tasarımı Product Design

Yeni bir ekstrüde plastik profil geliřtirmek istediđinizde, HAF Plastik olarak mümkün olan en iyi çözümlü sunmak için sizinle birlikte çalıřıyoruz. Plastik profilleri geliřtirirken, uygun maliyet ile birlikte üretilebilirlik, ayrıca; mekanik, optik, estetik gibi tüm detayları deđerlendirmektediriz.

## Size Özel Tasarım Tailor Made Design

*Whenever you want to develop a new extruded plastic profile for the lighting industry, HAF Plastik works with you to find the best possible solution. We review the requirements for development of plastic profiles together such as cost, manufacturability, durability, visuality and other critical factors essential for the development of top-notch plastic components tailored specifically for the lighting sector.*

## Kalıp Tasarımı ve Üretimi

### Mold Design and Production

Kendi bünyemizdeki kalıp tasarım ve üretimi sayesinde, ekstrüde plastik profillerinizin üretime uygun şekilde tasarlandığından emin oluyor ve tasarımlarınızı en kısa sürede hayata geçiriyoruz.

Tasarımlarımızda, maliyeti düşürecek ve performansı arttıracak faktörleri tüm detayları ile düşünüyoruz. Ürünlerimizin kullanım süresi boyunca yüklere ve çevresel faktörlere karşı yüksek performans gösterebilmesi için 3 boyutlu modellemede CAD yazılımları kullanıyoruz. Tecrübemiz sayesinde aydınlatma sektörüne özel teknik destek ve proje yönetimi desteği sunuyoruz

## Bitmiş Ürün

### Finished Product

Üretimimiz, gelen hammadde kontrollerinden, sevkiyat öncesi kontrollere kadar düzenli olarak kalite kontrol aşamalarından geçmektedir. Kalite kontrol birimimiz, video ölçüm sistemi gibi bilgisayar denetimli ölçüm ekipmanları ile tüm vardiyalarda kontrol gerçekleştirmektedir.

HAF Plastik olarak, müşterilerimizin isteği üzerine üretim sonrasında çeşitli ikincil operasyonlar yapabilmekteyiz. Geniş çaplı uygulamalarımız aşağıda sıralanmıştır.

*We take the utmost care in ensuring that your extruded plastic profiles are not only carefully designed but also optimized for cost-efficiency and superior performance, all within the unique context of the lighting industry. We use CAE Simulations to ensure your product can withstand the loads and environmental factors to give reliable performance over its full life.*

*At HAF Plastik, we use the latest CAD software for full 3D modelling. Our experience enables us to provide exceptional technical and project management support.*

*In the lighting industry, we make sure that every step of production meets strict quality standards. This includes checking the materials when they arrive and inspecting the final products before delivery. We use computer-controlled equipment, like a video measurement system, for testing around the clock in three shifts.*

*HAF Plastik is capable to perform post-production operations upon request of our customers. We offer wide-range of processes as listed below.*

### Geniş çaplı uygulamalarımız

### wide-range of processes

**Ekstrüzyon**

**Extrusion**

**Delme**

**Punching**

**Enjeksiyon**

**Injection**

**Co - Ekstrüzyon**

**Co - Extrusion**

**Kesme**

**Cutting**

**Yapıştırma**

**Adhesion**

**Kaynak**

**Welding**

**Montaj**

**Assembly**

| Hammadde  |             | Materials  |              |
|-----------|-------------|------------|--------------|
| PC        | PMMA        | PC         | PMMA         |
| PC Şeffaf | PMMA Şeffaf | PC Clear   | PMMA Clear   |
| PC Opal   | PMMA Opal   | PC Opal    | PMMA Opal    |
| PC Renkli | PMMA Buzlu  | PC colored | PMMA Frosted |

| Işık Geçirgenliği |   |     | Light Transmission |   |     |
|-------------------|---|-----|--------------------|---|-----|
| LT1               |  | %85 | LT1                |  | %85 |
| LT2               |  | %75 | LT2                |  | %75 |
| LT3               |  | %65 | LT3                |  | %65 |
| Müşteriye Özel    |   |     | Other on request   |   |     |

| UL 94 Dereceleri | Değerlendirme   | UL 94 Rating | Defination of Rating  |
|------------------|---|--------------|---|
| HB               | Yatay şekilde yavaş yanma   | HB           | Slow burning on a horizontal part   |
| V-2              | Yanıcı plastik damlacıkları 30 saniye içinde durur  | V-2          | Burning stops within 30 seconds on a part allowing for drops of vertical flammable plastic    |
| V-1              | Bir parçanın yanması 30 saniye içinde durur. Yanıcı plastik damlaların akmasına izin vermez | V-1          | Burning stops within 30 seconds on a part allowing for drops of plastic that are not inflames |
| V-0              | Bir parçanın yanması 10 saniye içinde durur. Yanıcı plastik damlaları oluşmaz.              | V-0          | Burning stops within 10 seconds on a part allowing for drops of plastic that are not inflames |

## Doğru Plastik Malzeme Seçimi

### Right Selection of Plastic Material

| Şeffaf Plastikler<br>Transparent Plastics | Ateş Önleyici Plastikler<br>Fire Protection Plastics | Mühendislik Plastikleri<br>Engineering Plastics                   | Opal Plastikler<br>Opal Plastics          | Genel Uygulama Plastikleri<br>General Application Plastics |
|---|--|---|---|--|
| PC<br>Frosted PMMA<br>PMMA                | PC<br>Opal PC  | PC<br>PMMA<br>ABS<br>PC - ABS<br>PETG<br>TPE - TPU - TPV<br>NORYL | Opal PC<br>Opal PMMA<br>Opal Frosted PMMA | PVC<br>PE<br>PP<br>PS                                      |

Plastik Profiller

Plastic Profiles

Plastik Tüp ve Borular

Plastic Tube and Pipes

Plastik Contalar

Plastic Gaskets

Müşteriye Özel Ekstrüde Plastikler

Custom Plastic Extrusions



**Buzlu yüzey**  
Frosted surface

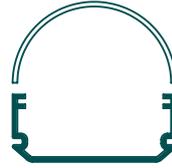
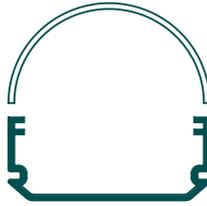
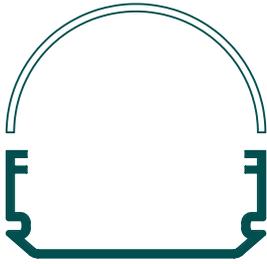


**Transparan yüzey**  
Transparent surface



**Opal yüzey**  
Opal surface

**Aynı profil**  
farklı boyutlar



**Same profile**  
different sizes

**Orijinal hammadde**  
Original prime material



**Geri dönüştürülmüş hammadde**  
Recycled material



**Farklı renk seçenekleri**  
Different colour options



## Aydınlatma Uygulamaları

### Lighting Applications

Aydınlatma plastik profilleri, iç mekan ve dış mekan uygulamalarında, ev içi aydınlatma, ticari, endüstriyel, mimari, medikal ve display aydınlatmalarda kullanılır. Parlaklık ve eşit dağılmayan ışık gibi aydınlatma problemleri, HAF Plastik tarafından tasarlanan kontrol edilebilir ve yumuşak, verimli ışık etkisi oluşturan profiller sayesinde çözülebilir.

Polikarbon ve akrilik malzemeler, aydınlatma profilleri uygulamalarında en çok tercih edilen plastik hammaddelerdir. Polikarbon malzemeler, darbe dayanımı ve yüke karşı yüksek dayanıklılık sağlamak gibi üstün özelliklere sahipken; akrilikler, diğer plastiklere kıyasla daha yüksek seviyede ışık geçirgenliği özelliğiyle en iyi optik performansa sahiptir.

*Plastic lighting profiles are used in indoor and outdoor applications for the purpose of domestic, commercial, industrial, architectural, medical and display lighting. In the dynamic world of lighting, achieving the perfect balance of brightness while eliminating harsh contrasts is paramount. This is precisely where HAF Plastik excels, offering specially crafted diffusers that transform intense lighting into a soft, harmonious, and productive illumination.*

*When it comes to plastic lighting profiles, the most sought-after materials in the industry are Polycarbonate (PC) and Acrylics (PMMA). Polycarbonate boasts exceptional mechanical properties, including remarkable impact resistance and the ability to withstand high levels of mechanical stress. On the other hand, PMMA stands out with its unrivaled optical characteristics, ensuring unmatched light transmission for pristine illumination.*





## İç Mekan Aydınlatma

*Indoor Lighting*



## Dış Aydınlatma

*Outdoor Lighting*



## Otomotiv Aydınlatması

*Automotive Lighting*



## Beya Eşya Aydınlatması

*White Goods Lighting*

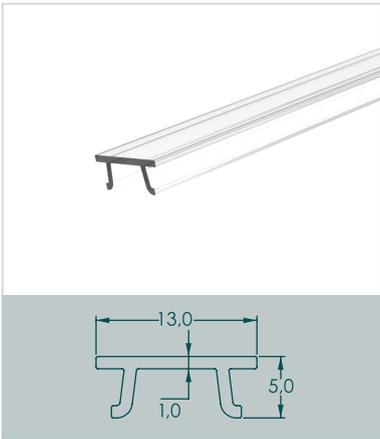


## Tarımsal Aydınlatma

*Agricultural Lighting*



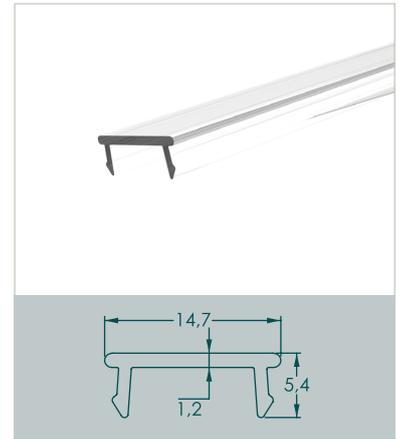
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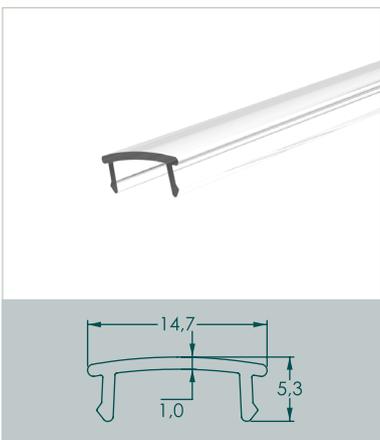
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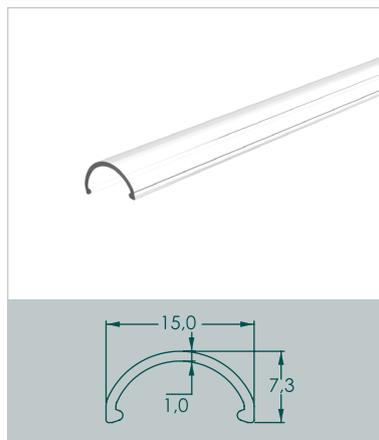
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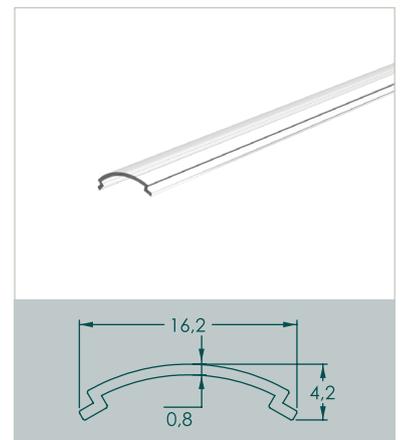
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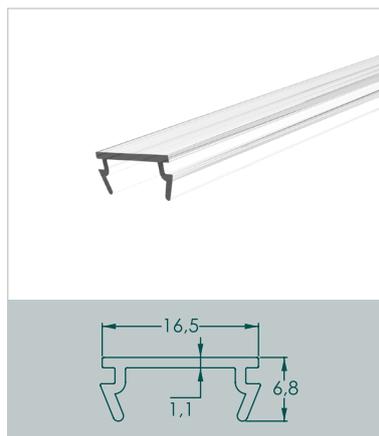
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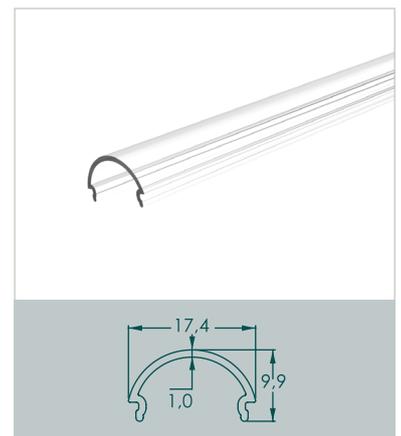
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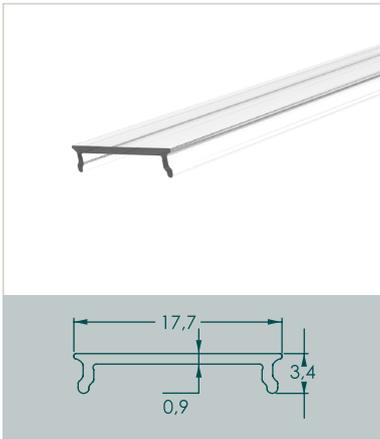
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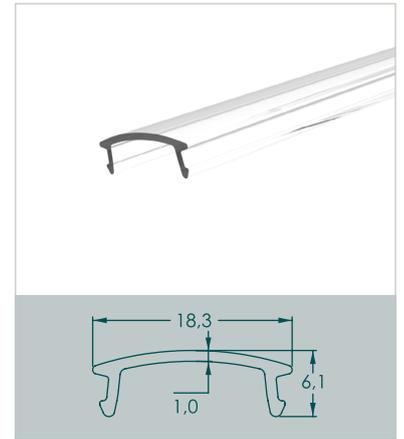
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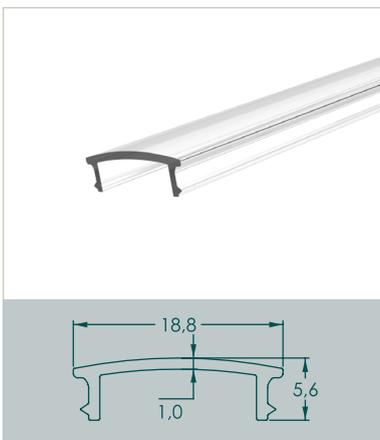
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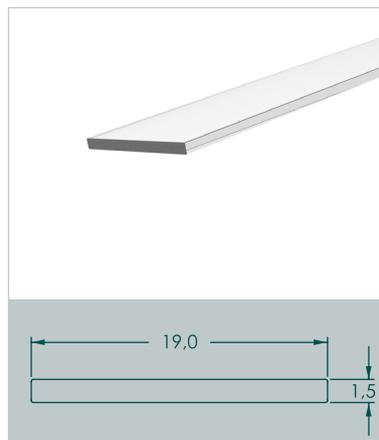
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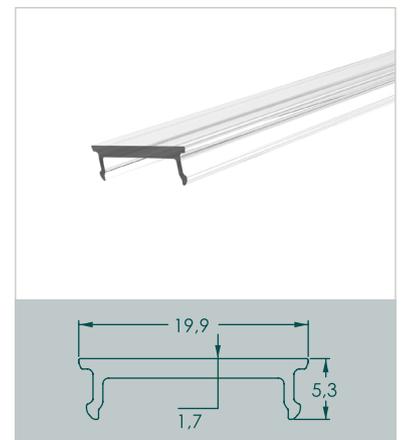
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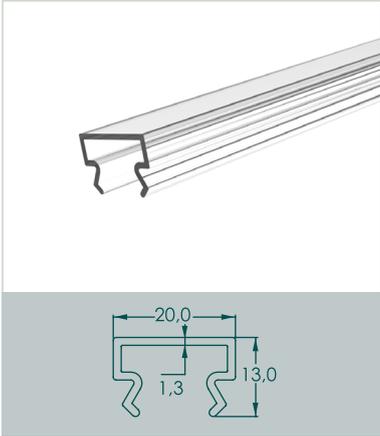
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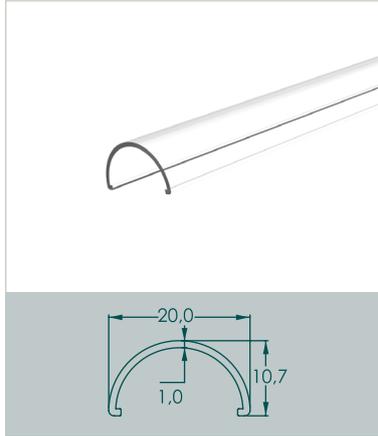
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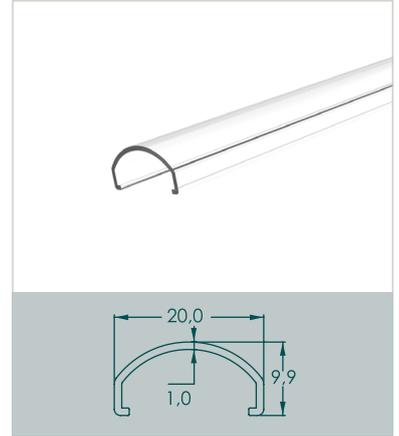
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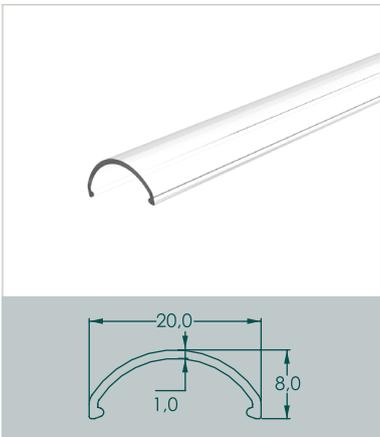
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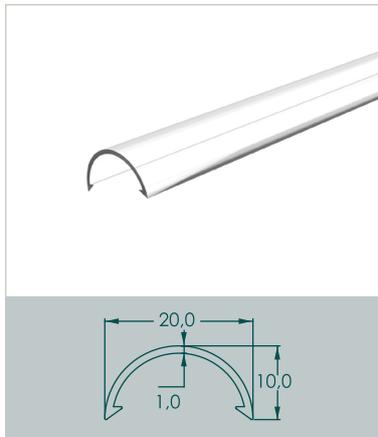
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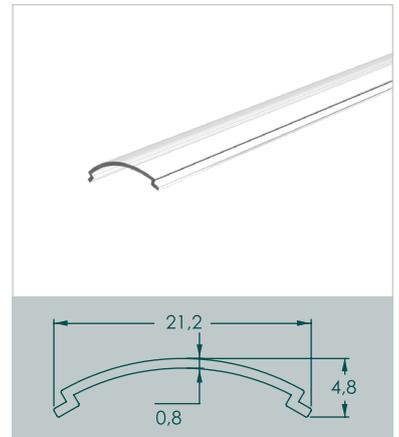
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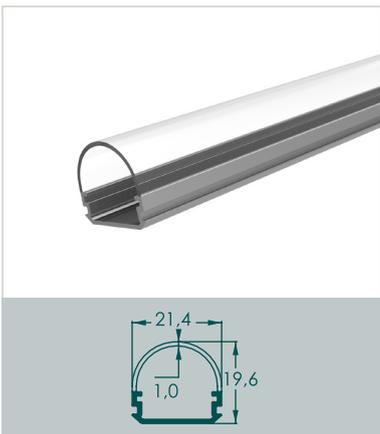
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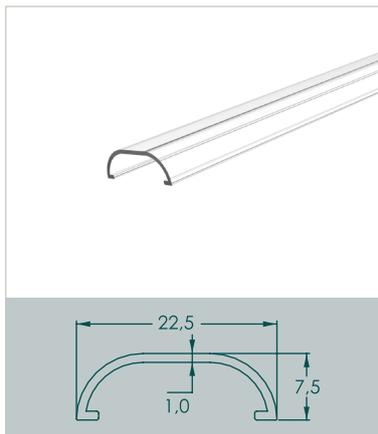
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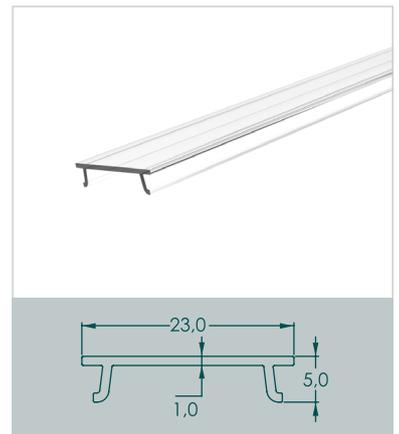
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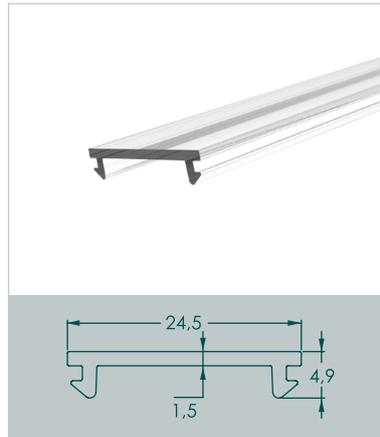
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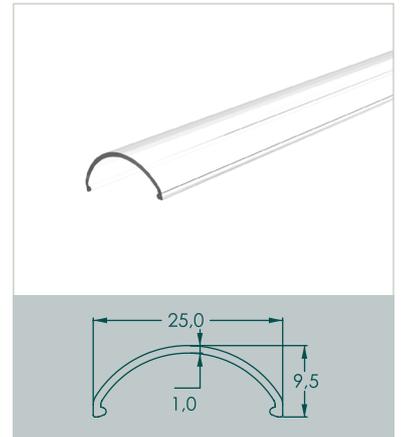
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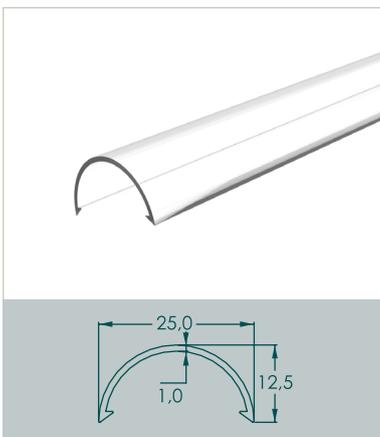
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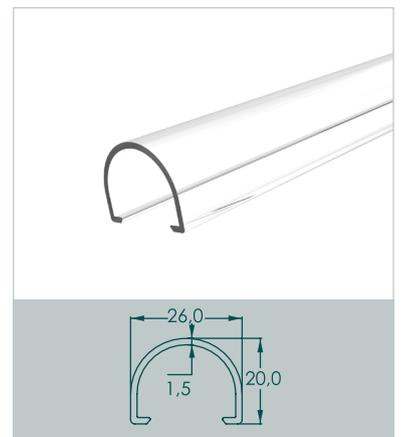
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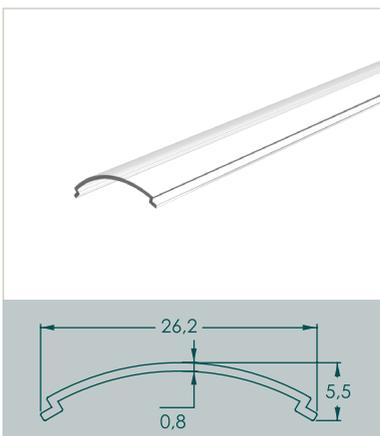
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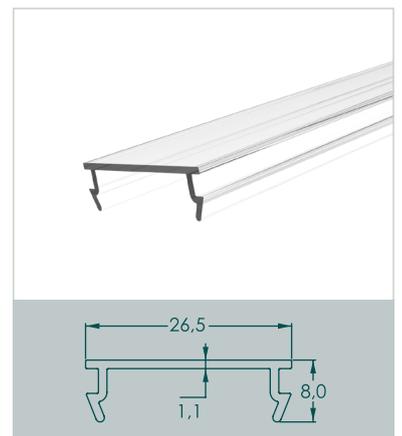
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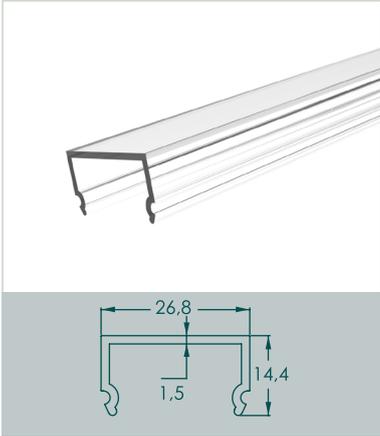
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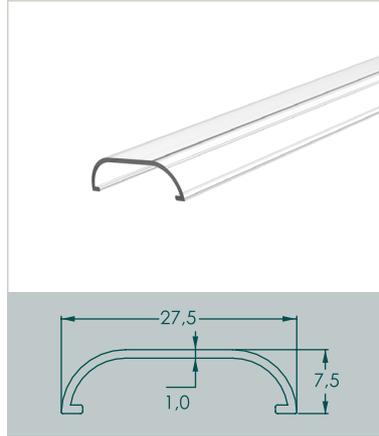
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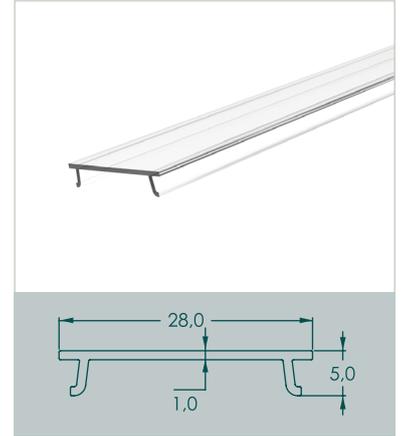
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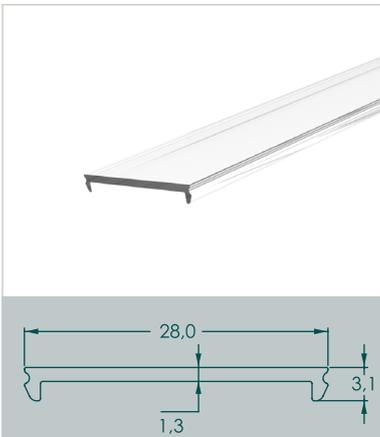
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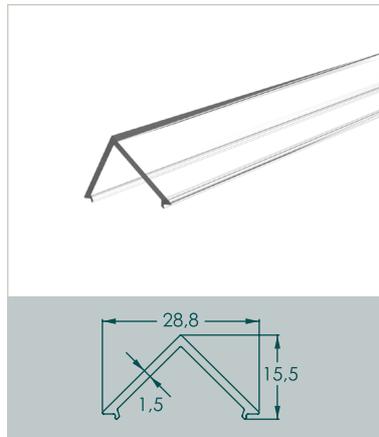
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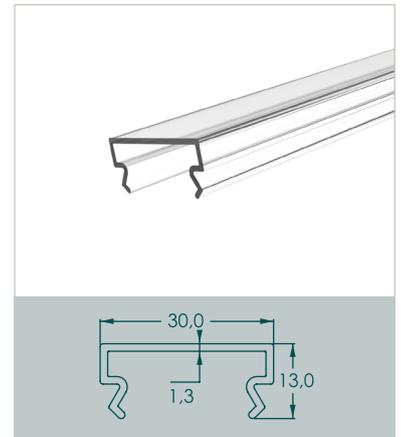
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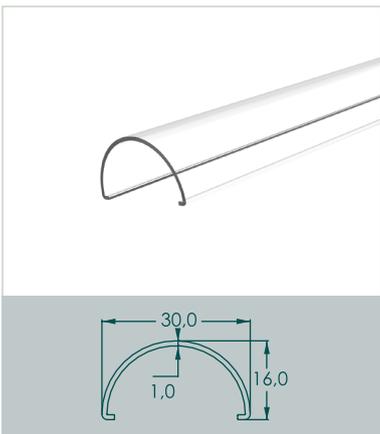
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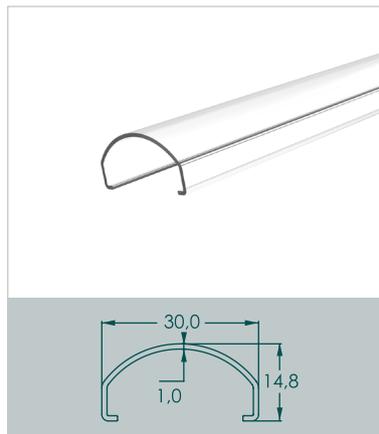
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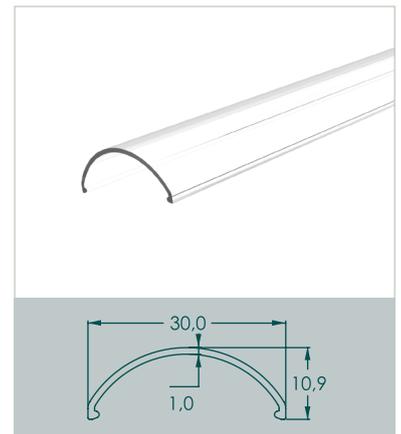
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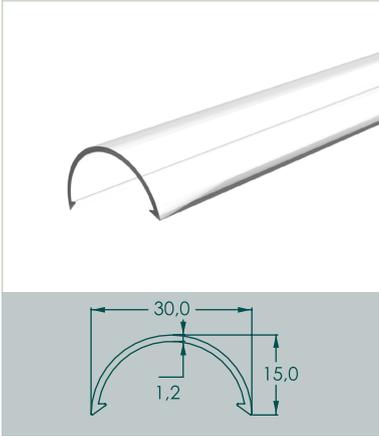
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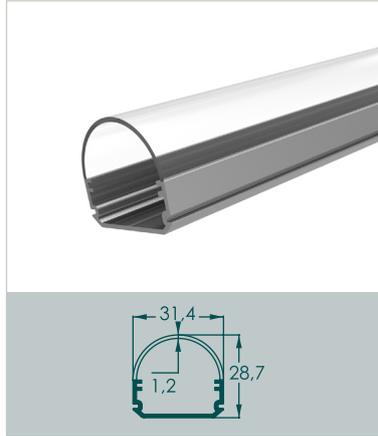
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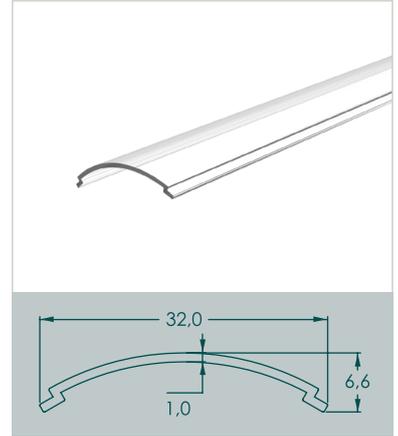
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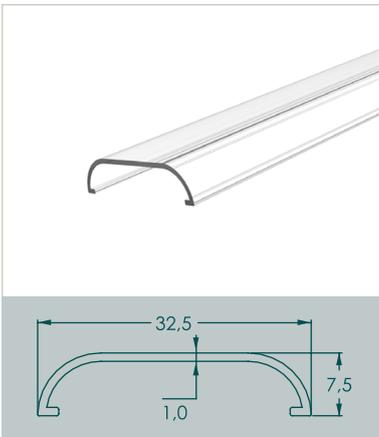
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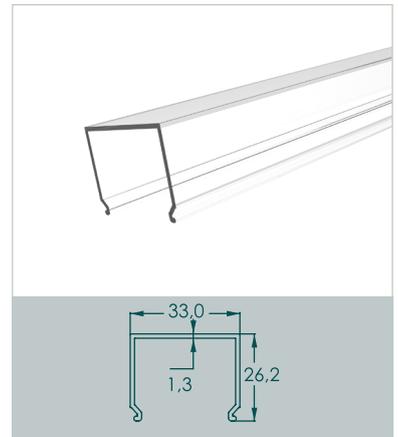
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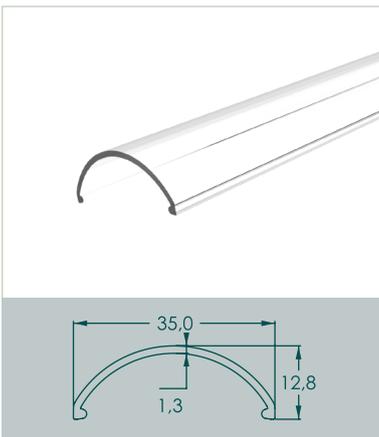
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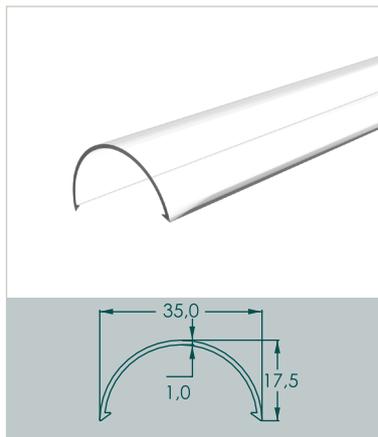
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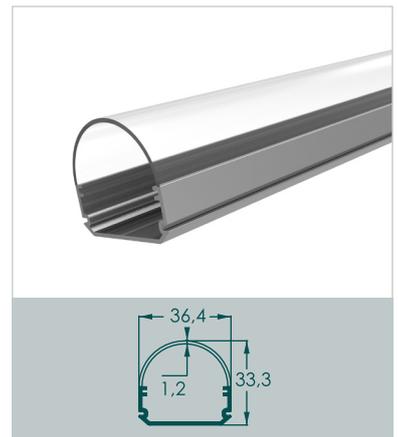
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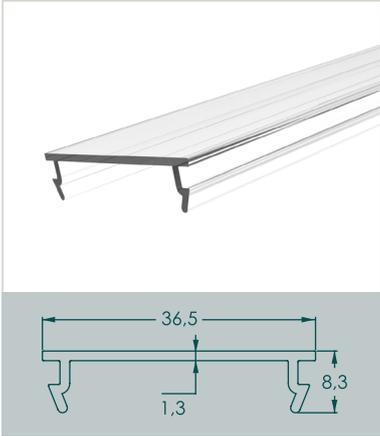
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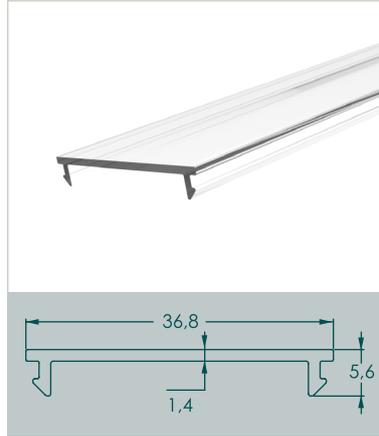
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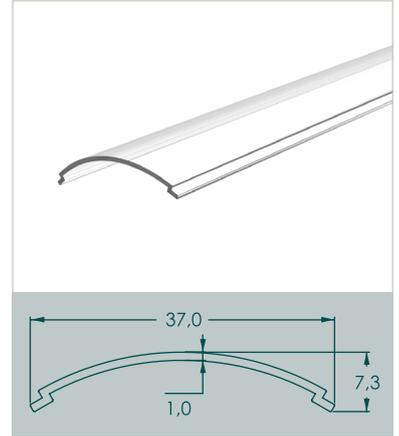
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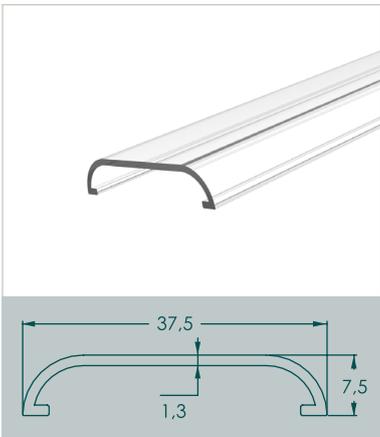
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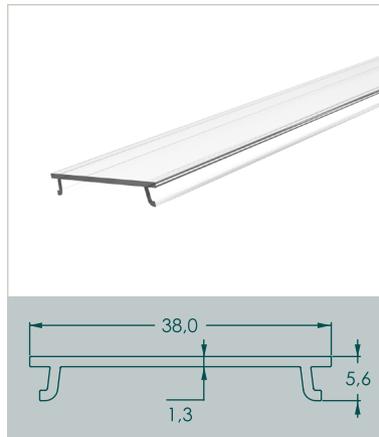
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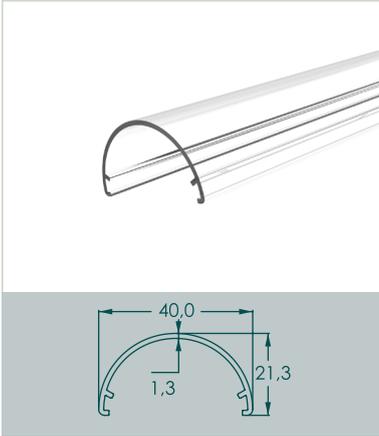
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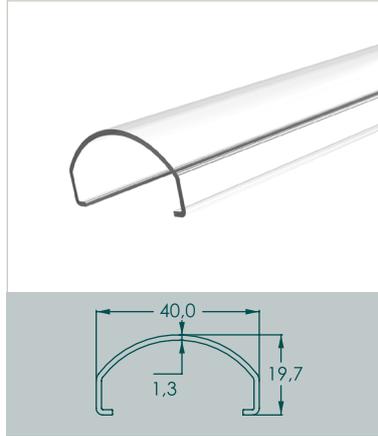
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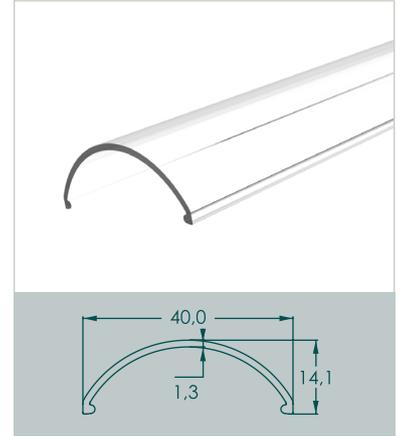
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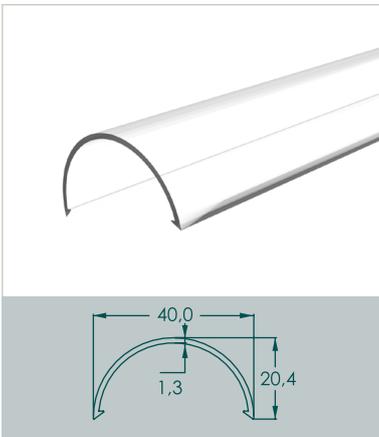
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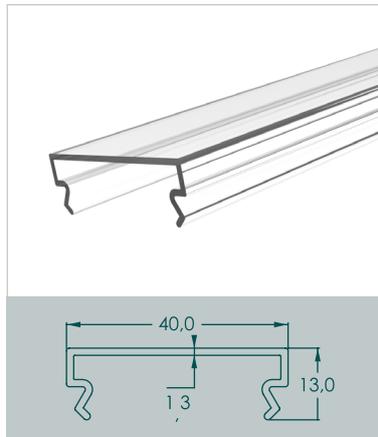
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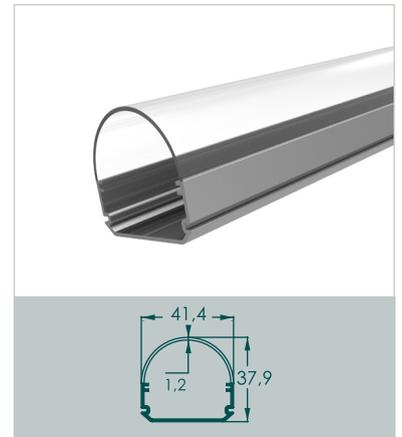
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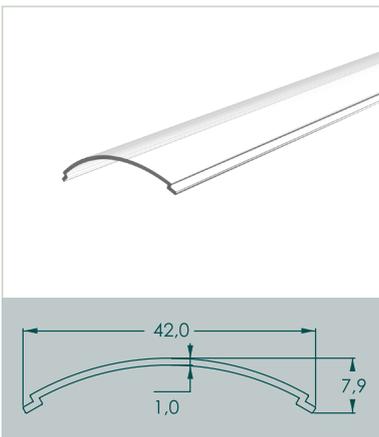
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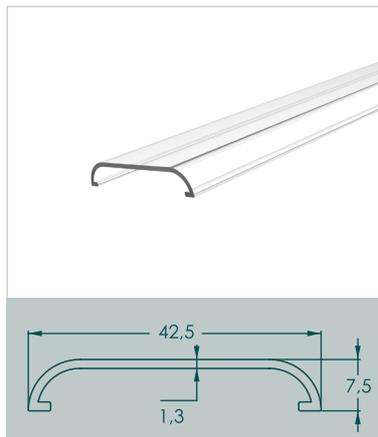
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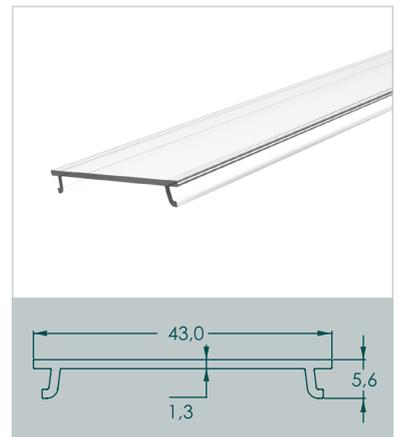
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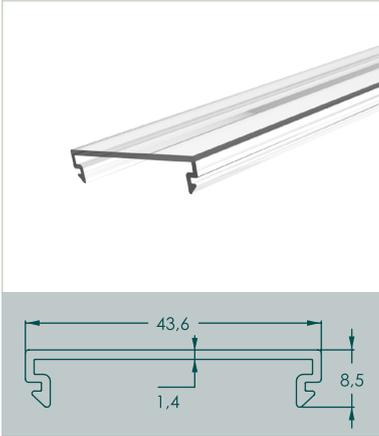
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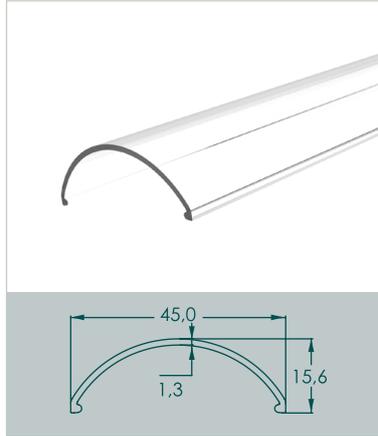
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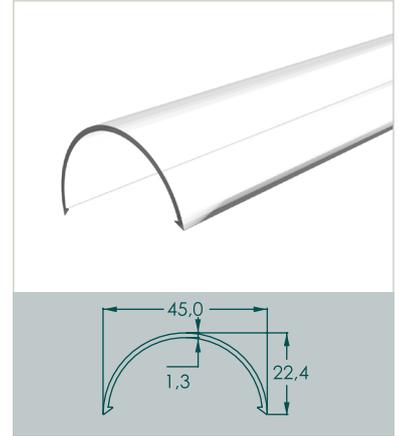
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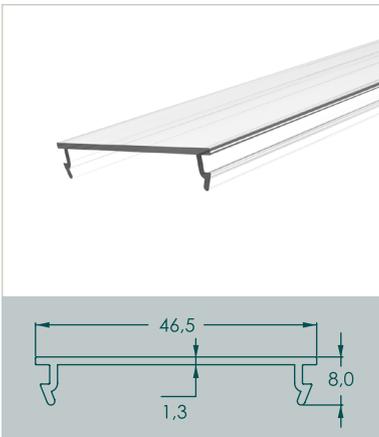
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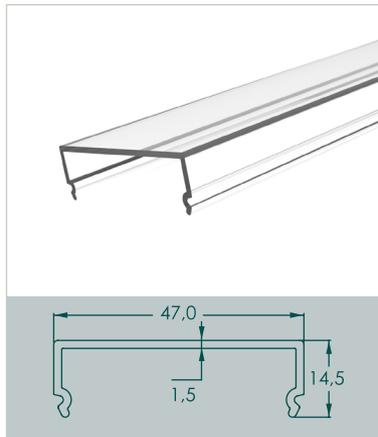
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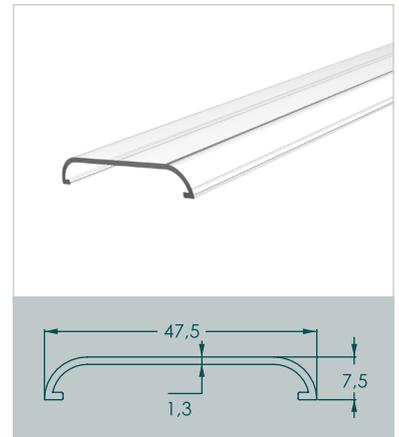
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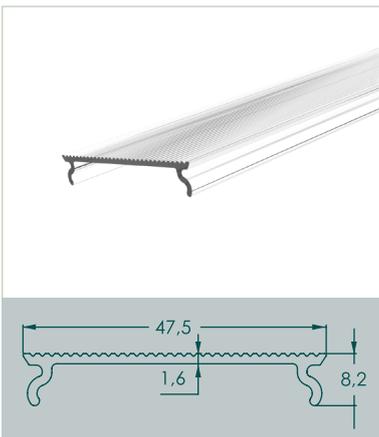
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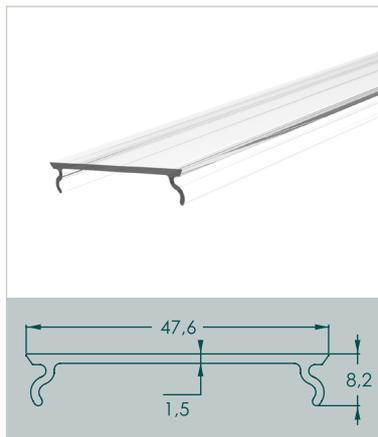
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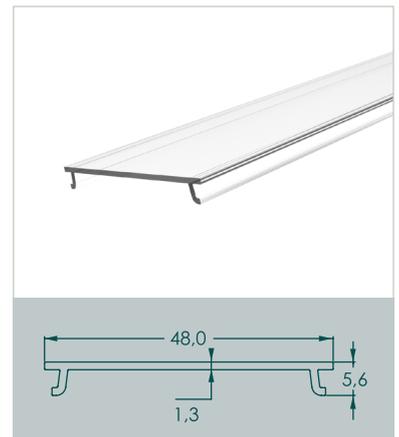
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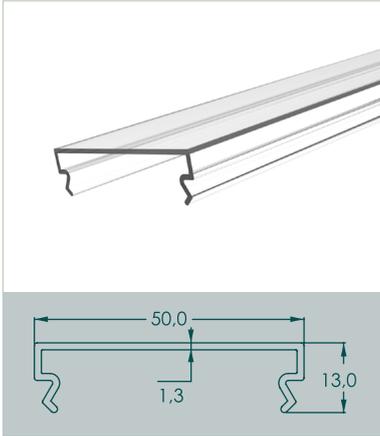
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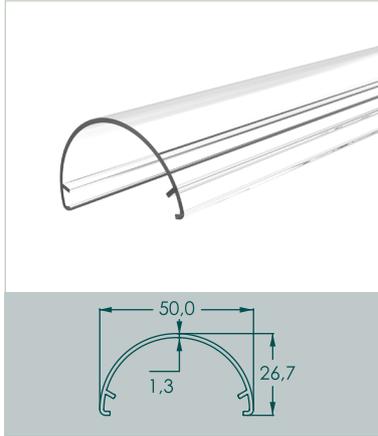
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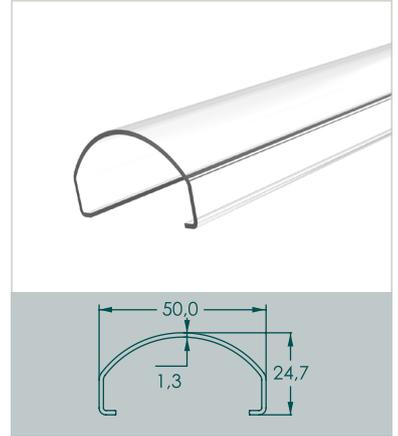
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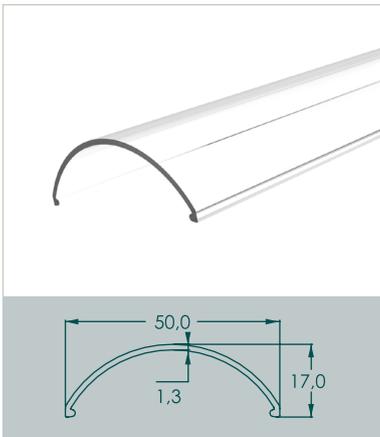
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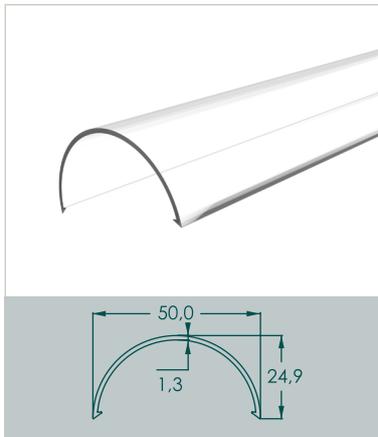
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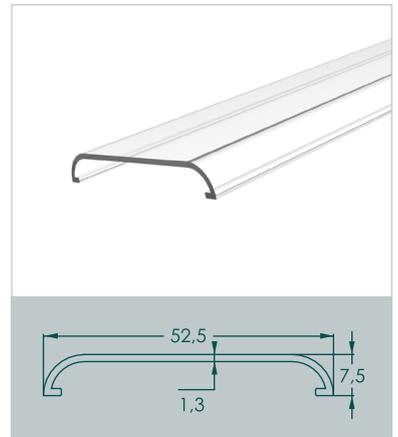
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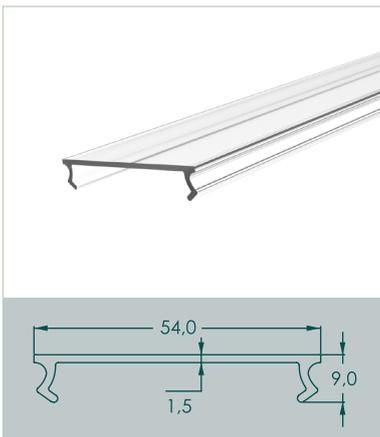
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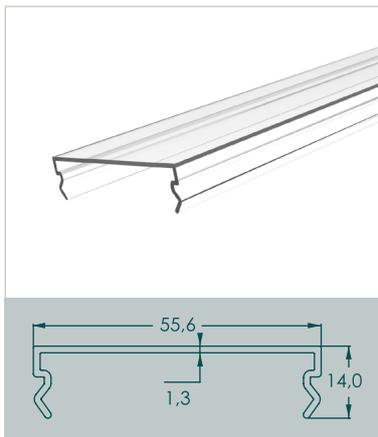
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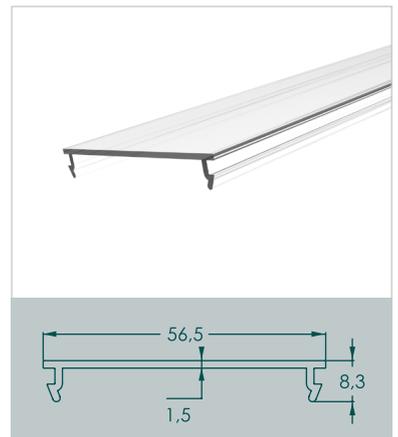
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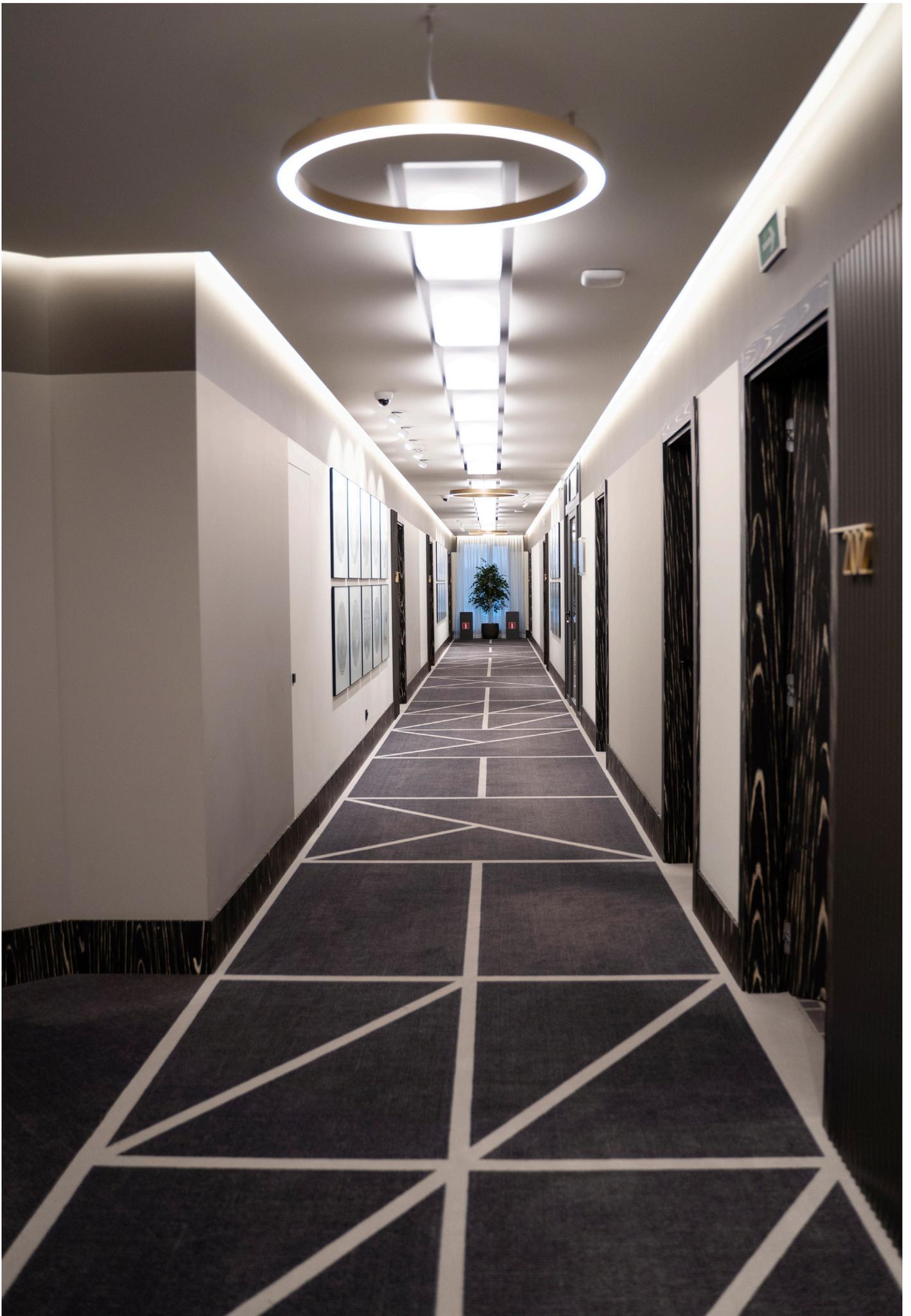


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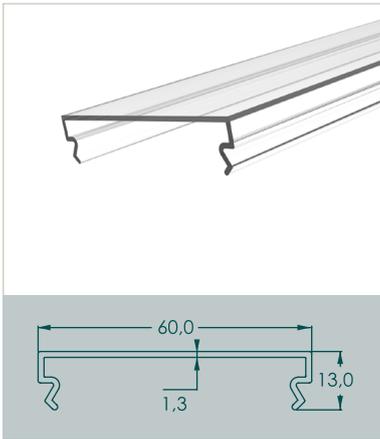


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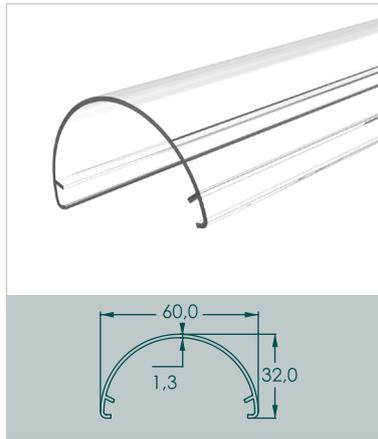




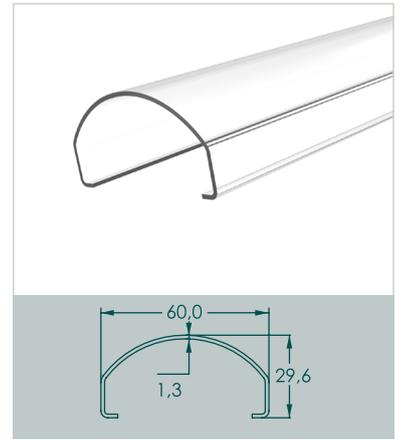
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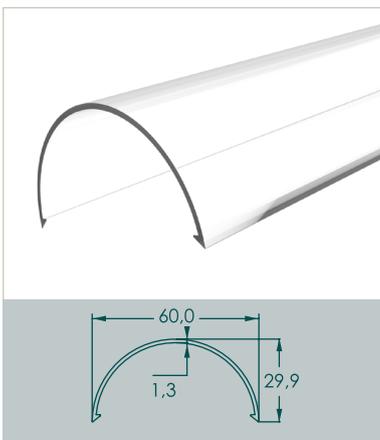
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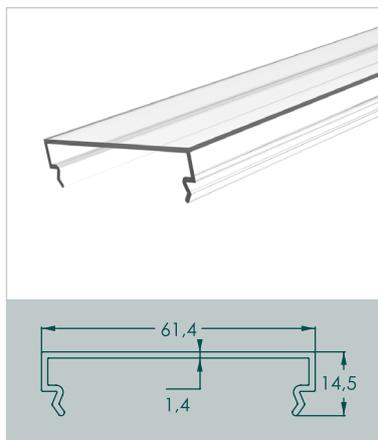
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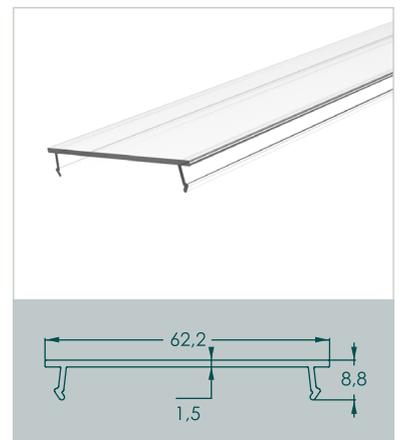
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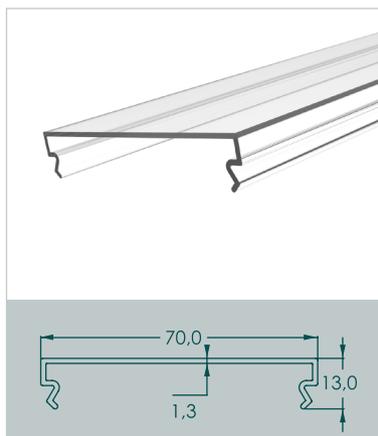
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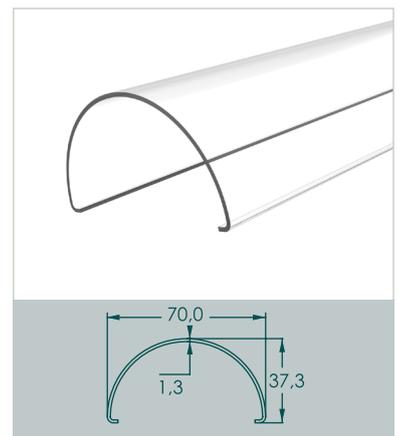
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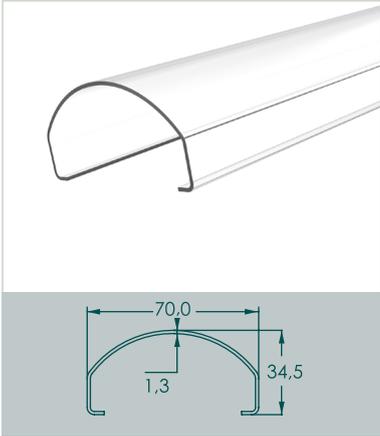
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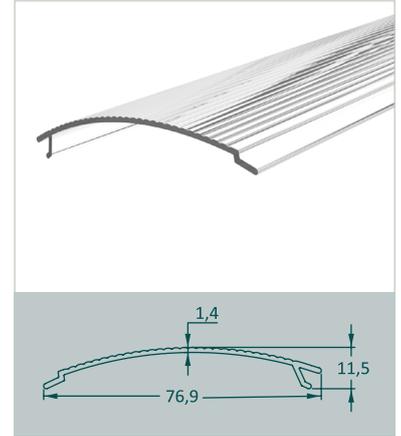
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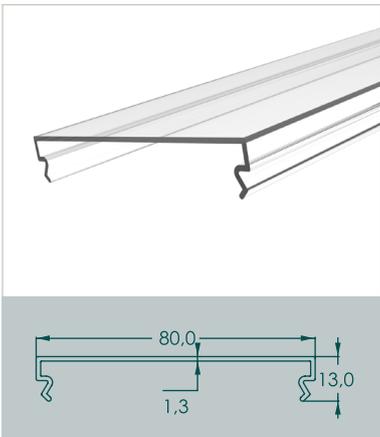
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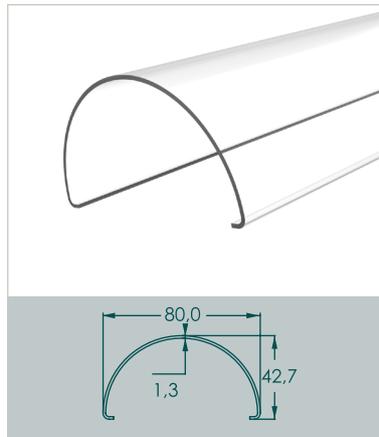
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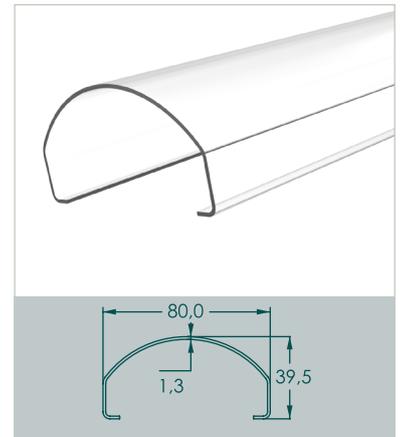
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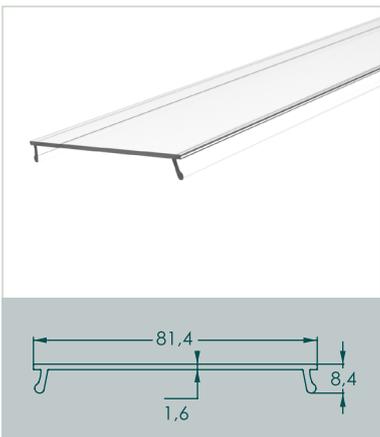
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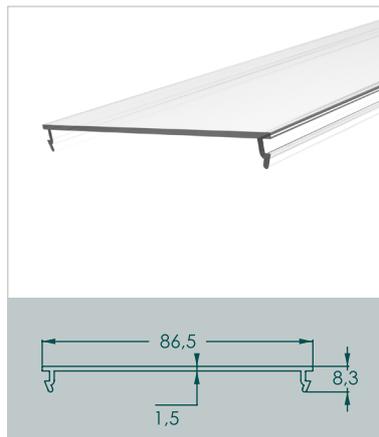
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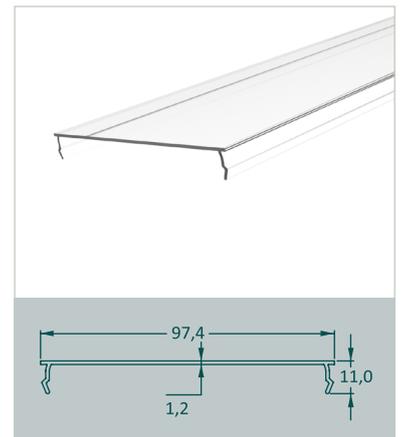
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**LA0008**



**LA0097**





## Aydınlatma sektörünün hızlı büyüyen plastik profil üreticisi HAF Plastik

Türkiye aydınlatma sektöründe lider, **uluslararası arenada tercih edilen** teknik plastik profil üreticisi olma yolunda ilerliyoruz. İstikrarlı hizmet ve ürün kalitemizle, müşterilerimizin öncelikli tercihi olmanın sürekliliğini sağlamak için de sürekli araştırıyor ve çalışıyoruz.

## The fast-growing innovative plastic profile manufacturer in the lighting industry: HAF Plastik

We are progressing towards becoming a preferred plastic profile manufacturer for the lighting industry on the international stage. With our consistent service and product quality, we are committed to maintaining our position as our customers' top choice. We continuously research and strive to ensure the sustainability of this preference.



## Referanslar References

Siemens

EAE Lighting

Kalyon. PV

Strip's

Volkswagen

Fiberli

Fagerhult

Arlight

MAN

Siegenia

Metalfrío

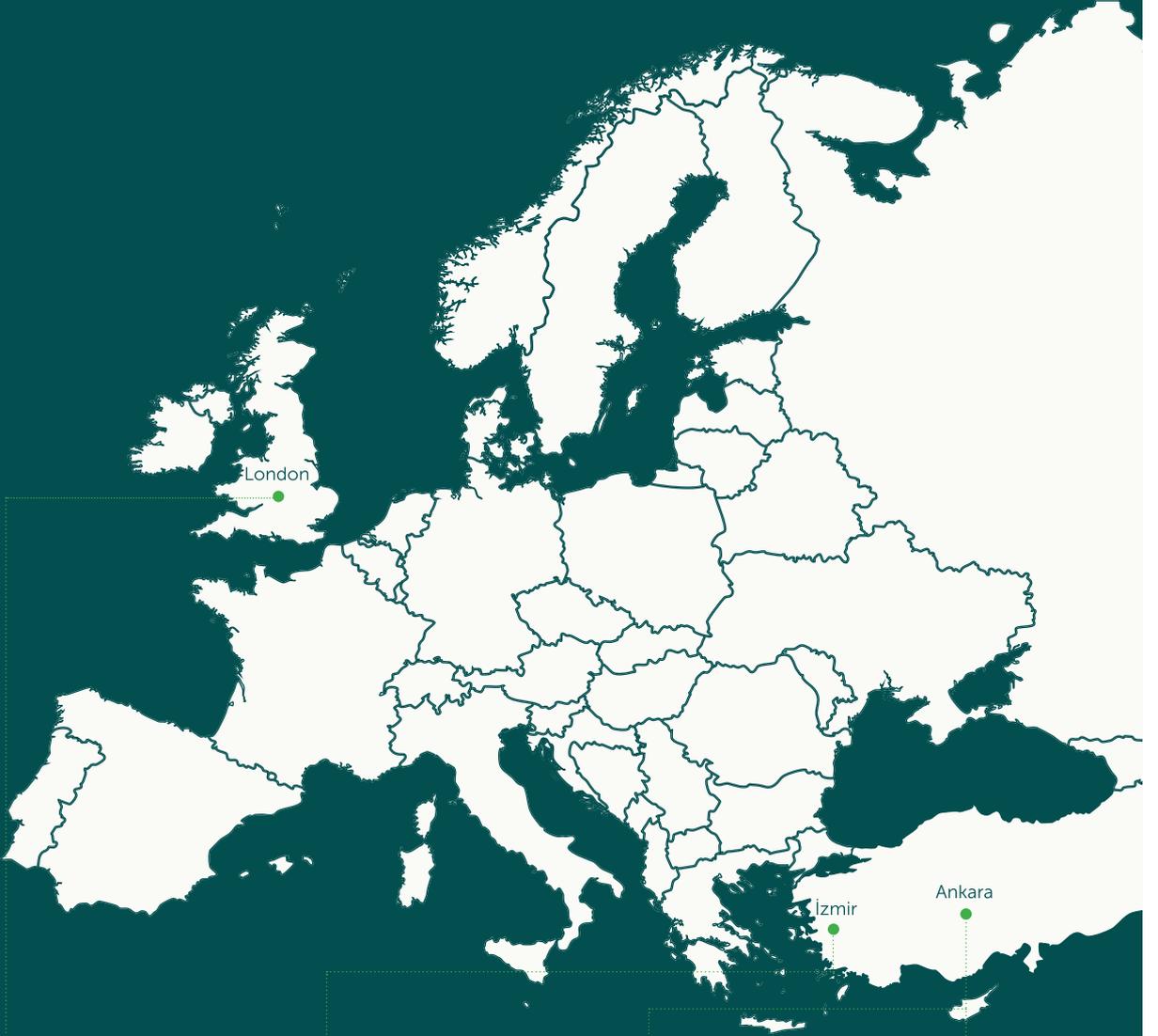
Scattolini

Farhym

Akuart

İkizler Aydınlatma

Pelsan



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● **Arge | R&D**

● **Satış | Sales**



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