



Intex™ 4-in-1 Masonry Support System

Revolutionising masonry support

Introducing the Intex™ 4-in-1 Masonry Support system developed in partnership between ACS and Tenmat. Intex™ represents a significant advancement in construction technology, offering the construction market a solution that prioritises safety and efficiency whilst addressing the challenge of cavity congestion.

A game changer for cavity congestion

Intex™ combines masonry support, cavity tray, wall ties, and an open-state cavity fire barrier into a single, easy-to-fit unit. This integration not only simplifies installation but also reduces cavity congestion by up to 60%. Additionally, Intex™ is over 40% faster to install than traditional methods, resulting in significant labour cost savings.

Warranty provider certified

Intex™ has achieved certification from Kiwa, a globally recognised leader in Testing, Inspection, and Certification. Additionally, it has successfully passed a rigorous UL assessment, securing a comprehensive evaluation and report. The Kiwa certification not only certifies Intex™ as a safe building material but also enables Architects and Specifiers to design with confidence, knowing that their projects meet the highest safety and quality standards.



32% less deliveries and storage



60% reduction in cavity congestion



40% faster to install



60 Year Design Life



Scan the QR code to access the Intex™ Technical Data Sheet and Installation Guide to learn more.



United in fire protection

Intex™ has been developed in partnership with Tenmat having both identified an acute need for something new and innovative to help solve cavity congestion without compromising on fire safety. The Open State Cavity Fire Barrier, created from extensive research and testing, uses advanced intumescent materials. Mechanically fixed to the cavity tray, it ensures correct installation without compromise from congestion challenges.

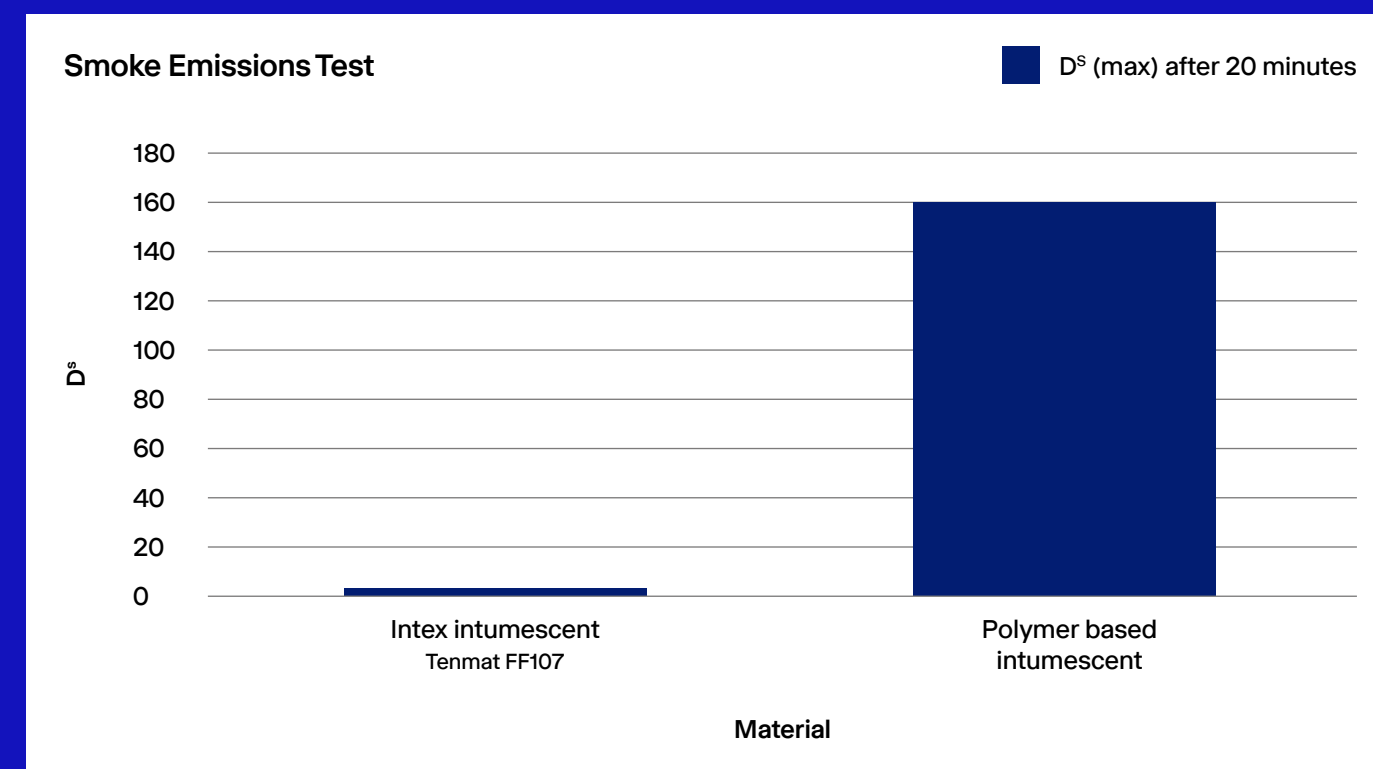
Tenmat's exceptionally powerful intumescent combines fast reaction with exceptional free expansion characteristics and durable char structure making it ideal as an Open State Cavity Fire Barrier. The Intex™ intumescent retains fast reaction and high-pressure generation characteristics whilst also offering a high level of controlled uni-directional expansion to close off the space in the cavity to stop the spread of smoke and fire.



Smoke kills more people than fire

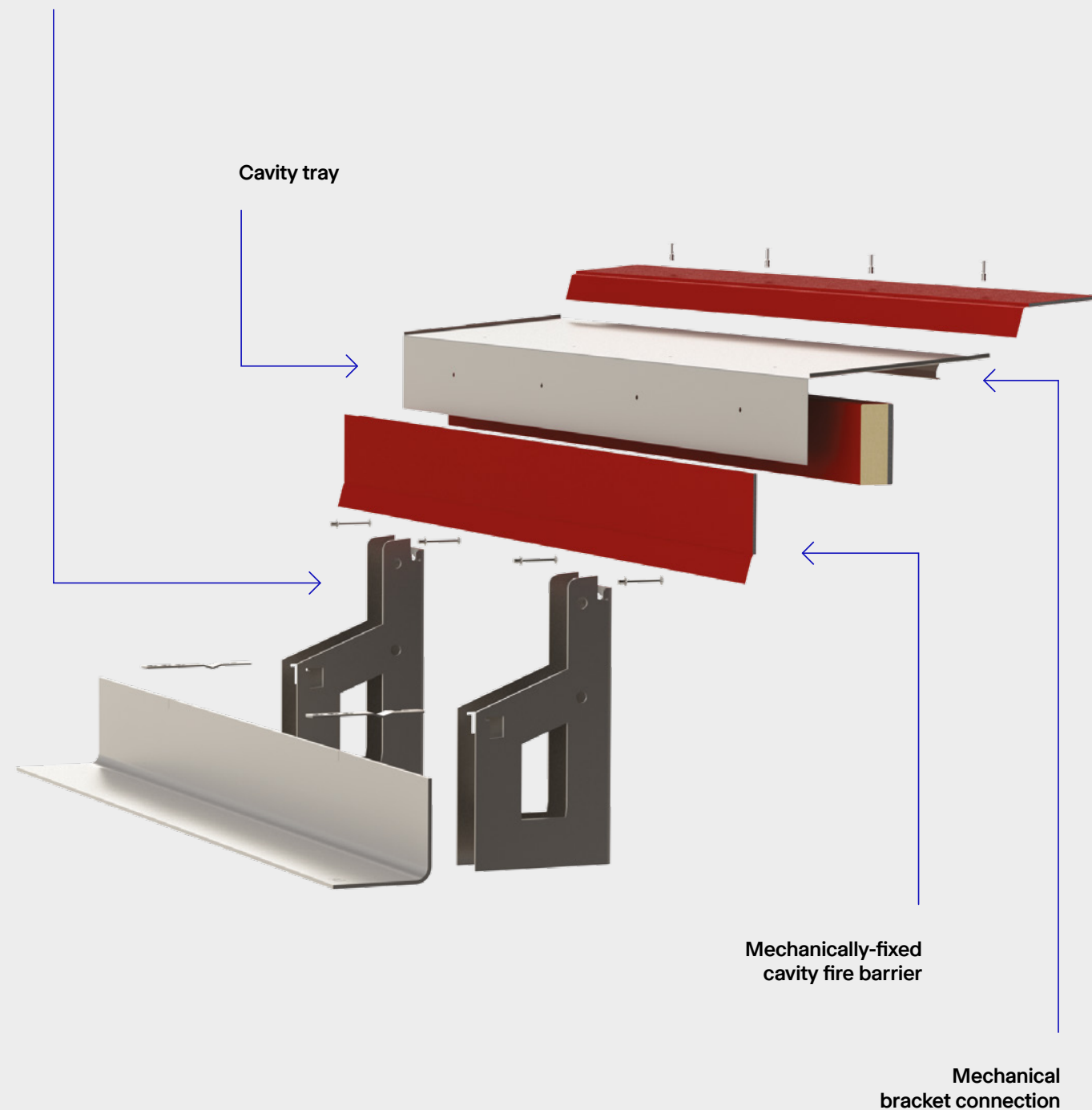
Smoke generated by halogens can be harmful or even lethal to human health. Tenmat's intumescent materials have been 3rd party tested to show that they are "Low Smoke" emitting and produce a "Zero" classification of halogens in a fire situation. They also have a minimum working life of 60-years.

Tenmat Intumescent Technology vs. Polymer Based Intumescent



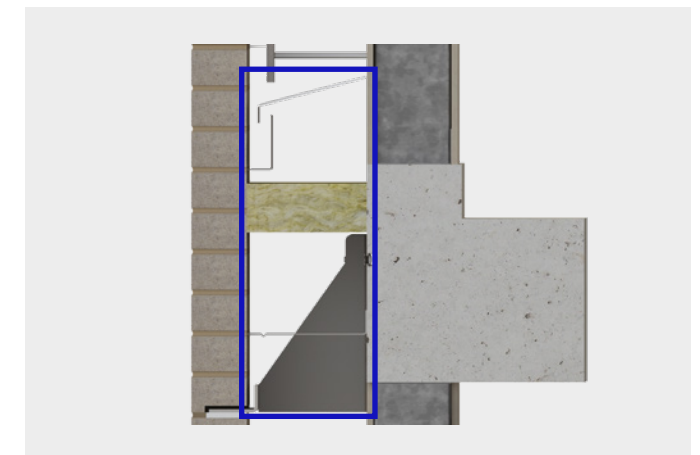
- D^s (max) is the measurement of specific optical density.
- Tenmat's primary materials have extremely low organic contents and offer low smoke emissions.
- Current legislation is working towards ever lower smoke emissions to save the lives of residents and fire fighters.
- Low smoke – Exova Lab Tested according to BS EN45545-2.

Masonry support with vertical slot allowing for connection with tie



Intex™ features and benefits

- Reduce cavity congestion by up to 60%
- 60-year design life of the whole system including open state cavity barrier
- Kiwa certification and UL assessment
- A1 non-combustible**
- Increase build speeds by up to 40%*
- Single sign-off on drawings
- Structural elements fully concurrent with Eurocode design
- Indirect savings on admin, site visits, deliveries, inductions and labour
- Fewer deliveries and reduced site storage space by 32%
- Improve site safety, reduce deliveries and vehicle movements
- Made from 90% recycled material and 100% recyclable**
- Suitable for most brick façade buildings

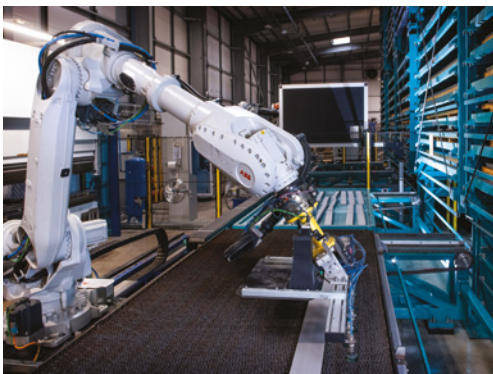


Standard masonry support (top) compared to Intex 4-in-1 Masonry Support system (bottom). Reduces cavity congestion by up to 60%.

* compared to traditional masonry support
 ** stainless steel elements

Cost comparison: Traditional masonry support vs. Intex™ 4-in-1 Masonry Support

Traditional masonry support systems involves separate components which can complicate installation due to cavity congestion, increase material and labour costs, and require individual drawings and sign-offs for each individual component. In contrast, the Intex™ 4-in-1 Masonry Support system integrates all necessary components into one easy-to-use system, reducing the need for multiple deliveries and minimising on-site storage requirements, resulting in significant savings in both material and labour costs.



- Financial benefits of Intex™**
- **Reduced material costs:** Depending on the building design, Intex™ eliminates the need for separate purchases of masonry supports, trays, ties, and cavity fire barriers, resulting in lower overall material costs.
 - **Lower labour costs:** The easy-to-fit design of Intex™ means it can be installed over 40%* faster than traditional systems, reducing labour expenses significantly.
 - **Increased efficiency:** By addressing the challenges of cavity congestion, Intex™ ensures a smoother and quicker installation process, leading to project time savings and fewer logistical complications, plus reduces the likelihood of future remedial costs.
 - **Administrative and design time savings:** Working with a single company for all components simplifies procurement and coordination, reducing administrative and design time that would otherwise be spent managing up to four different suppliers.

Cost comparison: Intex™ saves 29% on labour

Example project in Greater Manchester for 72m
– saves 4% overall and 29% on labour costs

Component	Traditional System	Intex™ 4-in-1 System
Masonry support	£20,258	£28,013
Cavity tray	£5,292	Included
Wall ties	£228	Included
Fire barrier	£1,730	Included
Total material costs	£27,508	£28,013

Fitting / labour		
Masonry support	£3,220	Included
Cavity tray	£1,431	Included
Fire barrier	£1,145	Included
First row of ties	£715	Included
Total labour costs	£6,511	£4,651
Total Including fitting	£34,019	£32,664
Saving overall		£1,355 (4%)
Labour saving		29%

Not all projects are the same, but in most cases, switching to the Intex™ 4-in-1 Masonry Support system not only streamlines the construction process but also results in substantial material and labour cost savings.

How and where Intex™ can be used

The Intex™ 4-in-1 Masonry Support system is versatile and effective in various construction settings:

Brickwork façades: Ideal for buildings with a concrete primary structure.

Internal structures: Compatible with both Steel Framing Systems (SFS) and blockwork.

Cavity sizes: Suitable for cavities between 150mm and 350mm.

Bracket heights: Minimum bracket height required is 180mm.

Insulation requirements: Must be used with mineral wool insulation with a minimum density of 60kg/m³.

In its standard format, featuring a maximum 15mm front gap and/or a maximum 34.5mm rear gap, Intex™ has been assessed by UL to achieve:

- 120 minutes integrity
- 90 minutes insulation

This makes Intex™ a reliable and efficient choice for modern building projects.

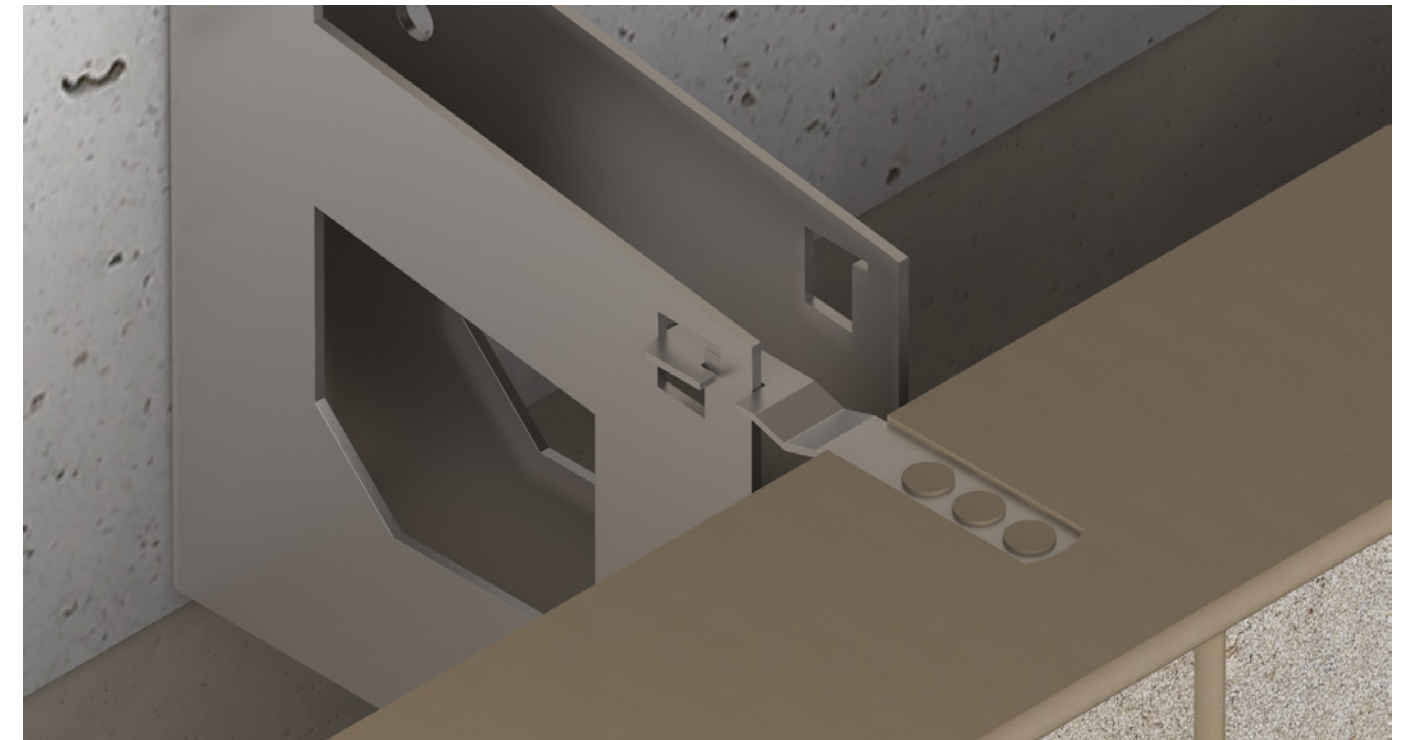
Comparing methods

Previously with a wall tie, this would need to be fixed back to the primary concrete structure utilising a drill and mix methodology. These ties would also need to be installed prior to placing insulation, as you will need access to the slab edge to allow for fixing. In turn, this means installing the ties prior to laying brickwork and estimating where the tie will need to be located. With the Intex™ system, ties are now simply clipped into the bracket leg allowing for an increase in speed whilst also giving a rigid connection against wind loading.

With traditional cavity fire barriers in masonry façades, these tend to be full fill compression fit mineral wool barriers. Often these barriers need to be cut on-site to ensure they fit within the cavity between the concrete substrate and the brickwork façade. To cater for allowable brickwork tolerances as well as the required compression of the barrier, this requires specific cuts completed on-site which can be difficult to complete. To add to this complexity, when brickwork is laid the mortar is 'green' until it has achieved sufficient strength. If you push a compression fit barrier between the concrete and brickwork at this stage, the brickwork can be pushed outwards, reducing the amount of compression on the barrier. With the Intex™ barrier, this utilises an open state design which allows for brickwork tolerances. Under a fire scenario, the intumescent material will expand and close all gaps, creating an impenetrable barrier against fire.

Durability

The system shall have a service life durability equivalent to that of the building into which it is incorporated. The expected lifespan of the building should be at least 60 years. The aging performance of the barrier has been approved for 60 years for normal temperatures in the range -5°C to +30°C or intermittent extremes in the range -20°C to +50°C.



Among our key Building Alliance tenets is a commitment to articulating the benefits of the masonry building envelope, so I am delighted to see an organisation like ACS investing in R&D to give the industry a fantastic new masonry tool. Intex™ is a pioneering product that will help us build safer futures.

Mike Leonard
Chief Executive at Building Alliance



Right: Intumescent strip installed within a brickwork cavity in its normal state (top).

Activated intumescent strip expanding during a fire, effectively sealing the cavity to prevent the spread of flames and smoke (bottom).

About ACS

ACS is the UK's largest and most innovative manufacturer of structural building components. With over 40 years of industry experience, we understand the challenges of every building project.

From early design to full installation, we advise and support with our market-leading products. Starting as a small family business, we've grown into industry leaders, partnering with the UK's biggest developers and top architectural practices.

We design and supply masonry support, brick-slip systems, wall ties, cavity trays, and more for modern buildings. Innovation drives us, with our skilled teams continually advancing at our carbon-neutral facility in Leeds to produce the highest quality, safest and most sustainable products.

Benefits of working with ACS

- In-house design team for research and development, and product development
- Comprehensive technical support
- Expert project management
- Installation training programs
- Access to a product technical library as well as CAD and Revit resources
- Knowledge sharing through our free certified CPD program (Continuing Professional Development)



Passion



Integrity



Teamwork



Service excellence



Innovation



Sustainability

Leading the way in construction

At ACS we are committed to building a greener future through sustainable practices. Our purpose-built, carbon-neutral facility features energy-efficient technology, including 249.98Kw solar panels and fully electric vehicles.

We've achieved approved Science Based Targets for reducing our carbon footprint and are dedicated to reporting on our progress annually.

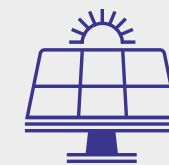
All our stainless steel raw materials are made from over 90% recycled content, and zero waste goes to landfill. By reinvesting profits into sustainable innovations, we aim to exceed industry standards and lead by example in the construction sector.



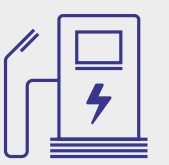
Carbon neutral



Energy efficient lighting



Renewable energy



EV charging points



Fully recyclable



Scan for more





Get Intex™ on your next projects

Want to find out how the Intex™ 4-in-1 Masonry Support system can benefit your specific projects? Contact us to discuss its suitability and discover how it can streamline your construction process, reduce cavity congestion, and reduce costs.

For detailed information, scan the QR code or visit acsstainless.co.uk/intex to access our product overview and see why Intex™ is the future of masonry support.

Alternatively call 0113 3918200 to discuss your project with our expert team.

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Discover more about Intex™

Interested in learning more about the Intex™ 4-in-1 Masonry Support system and how it can revolutionise your projects? Join our certified CPD program to gain in-depth knowledge about the product and its benefits.

For more information or to book a CPD session scan the QR code, visit our website or contact us at CPD@acsstainless.co.uk



Scan to book





Get in touch to learn more
about how Intex™ can help
you deliver your next project.

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