SEALING & BONDING
SIKA FIRE PROTECTION SOLUTIONS FOR JOINTS AND PENETRATIONS
BENEFITS OF OUR SOLUTIONS

Sika provides comprehensive solutions where fire resistant construction is required such as tunnels, commercial and residential buildings and steel structures. Fire resistant mortars, intumescent coatings and specially designed sealants enable the building of safer buildings and infrastructure. Our fire rated sealants and foams comply with the latest relevant standards and can be used for inside and outside applications on various substrates.
In case of fire within buildings smoke and heat will spread through penetrations and joints endangering residents and blocking escape paths. Fire protection solutions from Sika seal penetrations and joints and help retain fire and smoke to where they occur for a certain time, allowing inhabitants to exit the building safely. Sika fire rated products and systems comply with the most relevant standards (EN, ETAG, UL, ASTM) in order to ensure the highest fire resistance.

It is important to distinguish two different types of fire testing for building materials:

- Reaction to fire: How does the product react to an open flame? The reaction to fire is described by the combustability, smoke development and dripping behaviour.
- Fire Resistance: How long can a product that is built into a fire protection system withstand the impact of fire. This is described by the resistance time during standardized fire tests.

For the fire resistance of a building only the combined resistance of the system's individual components counts. For example a fire resistant door together with the fire resistant sealant and wall can hinder the spreading of fire and smoke. Therefore fire resistant tests are much more important than the reaction of a product to a flame.

### REACTION OF BUILDING MATERIALS TO FIRE

The reaction of building materials to fire is determined by exposing the single product in its not installed state to fire and heat. For example EN 13501-1 classifies how easily materials can catch fire, how smoke develops and if dripping occurs. It does not, however, provide any information about how long the product resists fire in a system.

<table>
<thead>
<tr>
<th>Building material class according to EN 13501-1*</th>
<th>Building inspection designation</th>
<th>Test standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>non-combustible and not containing any combustible components</td>
<td>EN ISO 1182, EN ISO 1716, EN ISO 9239</td>
</tr>
<tr>
<td>A2</td>
<td>non-combustible but containing certain amounts of combustible components</td>
<td>EN ISO 1182, EN ISO 1716, EN ISO 9239</td>
</tr>
<tr>
<td>A2, B, C</td>
<td>Flame retardant</td>
<td>EN ISO 9239-1</td>
</tr>
<tr>
<td>D</td>
<td>Normally flammable</td>
<td>EN ISO 9239-1</td>
</tr>
<tr>
<td>E</td>
<td>Normally flammable</td>
<td>EN ISO 11925-1</td>
</tr>
<tr>
<td>F</td>
<td>Easily flammable</td>
<td>No test required</td>
</tr>
</tbody>
</table>

* For additional sub-classes for smoke development and occurrence of dripping see EN 13501-1.

### RESISTANCE TO FIRE OF INSTALLED BUILDING MATERIALS

There are many fire resistance testing standards for building materials or building elements. The most relevant for joint sealants and penetration sealers are:
- EN 1366: Fire-resistance tests for service installations – Part 3: Penetration seals, Part 4: Linear joint seals
- ETAG 026: Fire stopping and fire sealing products – Part 3: Linear joint and gap seals
- UL 2079: Tests for fire resistance of building joint systems
- ASTM E119: Fire tests of building construction and materials
- BS 476-20: Fire resistance test for linear joints

These tests not only include the sealant but an entire section of the building where the sealant is installed with a backing rod into a joint formed by a relevant building material – concrete in most cases.

### FIRE RESISTANCE LEVEL

The performance of building materials or elements which are fire tested according to AS 1530 Part 4 are expressed in terms of their fire resistance level (FRL). The FRL describes the maximum fire resistance of the building material or element.

The FRL is expressed in terms of three numbers, giving the time in minutes for which each of the three criteria of structural adequacy, integrity and insulation are satisfied.

Examples of FRLs are:
- 60/60/30 indicating structural adequacy 60 minutes, integrity 60 minutes, insulation 30 minutes.
- 30/-/- indicating structural adequacy 30 minutes, but no resistance level for integrity or insulation.

The tested Sika system consists of:

- **Integrity Function**
  - Integrity is the capability of a building element, when exposed to fire on one side, to prevent the passage of flames, smoke and hot gases to the unexposed side. There is no temperature limit on the non-fire side.

- **Insulating Function**
  - Thermal insulation is the capability of a building element to maintain its required thermal insulation separating function in case of fire (with a max. 180 °C temperature rise on the non-fire side).

Fire rated sealant (yellow) combined with a standard PE backing rod.

Fire retardant foam (yellow).

*Smoke, flame and heat*

Max. +180 °C

**Hot gas and heat**
Many parameters have an influence on the fire resistance of a sealant in the applied and cured state in a joint. Therefore it is crucial to know the details of the joint. Without the joint details the fire protection information integrity and insulation cannot be derived from the classification charts and the correct product chosen.

**JOINT INFORMATION**

Information needed to choose the best fire rated joint sealing solution

**INFORMATION NEEDED:**

1. Substrates e.g. Concrete/Steel
2. Wall joint or floor joint
3. Wall thickness
4. Joint width
5. Single or double sided applied fire rated sealant

**EXAMPLE OF FIRE RATED SEALANT APPLICATION**

1. Precast concrete elements
2. Fire protection door
3. Sika fire protection sealant: Sikaflex®-400 Fire
4. Sika fire protection coating: Sika® Unitherm Platinum

In the image above a possible application of fire rated sealants and protective coatings is illustrated. A big distribution centre and warehouse is divided into several sections. To avoid the spread of fire and smoke between the sections several fire protection measures are taken. The walls are made of precast concrete elements that are sealed to each other with Sikaflex®-400 Fire. This combination unifies efficient installation, best sealing properties and highest fire protection. Choose Sika fire protection solutions for best performance.

**SIKA FIRE RATED PRODUCTS**

**Sikaflex®-400 Fire**

1-part, fire rated moisture curing elastic joint sealant

**Key Advantages & Benefits**

- Up to 4 hours fire resistance according to AS 1530.4
- Up to 4 hours fire resistance according to EN 1366-4
- Movement capability of ± 35% (ASTM C719)
- Easy to smooth and very good workability
- Good adhesion to many different substrates
- Long open time

**Approvals/Standards**

- AS1530.4 FRL
- EN 1366-4
- ASTM C920 class 25
- ISO 11600 class 25 LM
- EN ISO 11925-1:2011 EN-EXT INT CC

**Use**

Sikaflex®-400 Fire is designed for fire rated movement and connection joints on porous and non-porous substrates. It is suitable for interior and exterior applications.

**Sika® Firerate**

1-part, intumescent fire rated acrylic sealant

**Key Advantages & Benefits**

- Safe to use - water based, contains no asbestos or fibres
- Good adhesion to concrete and masonry substrates
- One component, ready to use
- Overpaintable when tack free
- Cost effective - minimal waste

**Approvals/Standards**

- AS 1530 Part 4

**Sika Boom®-FR**

1-part, high yield, fire rated polyurethane foam which can be applied by application gun

**Key Advantages & Benefits**

- High yield
- Easy application with application gun
- Very good temperature insulation
- Effective sound dampening
- HFC-free

**Approvals/Standards**

- DIN 4102: B1 fire rating class
- BS 476 Part 20: fire rated up to 5 hours fire protection
## FIRE RESISTANCE OF JOINTS WITH Sikaflex®-400 Fire

### FIRE RESISTANCE OF Sikaflex®-400 Fire TESTED ACCORDING TO AS 1530 Part 4

<table>
<thead>
<tr>
<th>Sikaflex®-400 Fire</th>
<th>Substrates</th>
<th>Element type</th>
<th>Minimum element thickness</th>
<th>Joint width</th>
<th>Width/depth ratio</th>
<th>Fire resistance rating to AS 1530 Part 4</th>
<th>Kind of sealing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete/Concrete</td>
<td>Wall</td>
<td>150 mm</td>
<td>20 mm</td>
<td>2:1</td>
<td>-/240/180</td>
<td>Double seal</td>
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<tr>
<td>Autoclaved aerated concrete / Autoclaved aerated concrete</td>
<td>Wall</td>
<td>150 mm</td>
<td>12 mm</td>
<td>2:1</td>
<td>-/240/240</td>
<td>Double seal</td>
<td></td>
</tr>
<tr>
<td>Autoclaved aerated concrete / Autoclaved aerated concrete</td>
<td>Wall</td>
<td>150 mm</td>
<td>40 mm</td>
<td>2:1</td>
<td>-/180/120</td>
<td>Double seal</td>
<td></td>
</tr>
<tr>
<td>Concrete/Concrete</td>
<td>Wall</td>
<td>150 mm</td>
<td>20 mm</td>
<td>2:1</td>
<td>-/240/120</td>
<td>Single seal on non-fire side</td>
<td></td>
</tr>
<tr>
<td>Autoclaved aerated concrete / Autoclaved aerated concrete</td>
<td>Wall</td>
<td>150 mm</td>
<td>12 mm</td>
<td>2:1</td>
<td>-/240/120</td>
<td>Single seal on non-fire side</td>
<td></td>
</tr>
<tr>
<td>Autoclaved aerated concrete / Autoclaved aerated concrete</td>
<td>Wall</td>
<td>150 mm</td>
<td>40 mm</td>
<td>2:1</td>
<td>-/120/120</td>
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<td>12-40 mm</td>
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<td>-/240/240</td>
<td>Double seal</td>
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<tr>
<td>Autoclaved aerated concrete / Autoclaved aerated concrete</td>
<td>Floor</td>
<td>150 mm</td>
<td>12 mm</td>
<td>2:1</td>
<td>-/180/120</td>
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</tr>
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<td>40 mm</td>
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<td>-/120/120</td>
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<tr>
<td>Sika® Firerate</td>
<td>Substrates</td>
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<td>Joint width</td>
<td>Width/depth ratio</td>
<td>Resistance class according to EN 13501-2</td>
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<tr>
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<tr>
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</tr>
<tr>
<td></td>
<td></td>
<td>Wall</td>
<td>150 mm</td>
<td>30 mm</td>
<td>2:1</td>
<td>-/180/180</td>
<td>Single seal on fire side or double seal</td>
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<tr>
<td></td>
<td></td>
<td>Wall</td>
<td>150 mm</td>
<td>40 mm</td>
<td>2:1</td>
<td>-/180/180</td>
<td>Single seal on fire side or double seal</td>
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<tr>
<td></td>
<td></td>
<td>Wall</td>
<td>150 mm</td>
<td>50 mm</td>
<td>2.5:1</td>
<td>-/180/180</td>
<td>Single seal on fire side or double seal</td>
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<tr>
<td></td>
<td></td>
<td>Wall</td>
<td>170 mm</td>
<td>20 mm</td>
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<td>-/240/240</td>
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<tr>
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<tr>
<td></td>
<td></td>
<td>Wall</td>
<td>170 mm</td>
<td>40 mm</td>
<td>2:1</td>
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<tr>
<td></td>
<td></td>
<td>Wall</td>
<td>170 mm</td>
<td>50 mm</td>
<td>2.5:1</td>
<td>-/240/240</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Floor</td>
<td>120 mm</td>
<td>20 mm</td>
<td>2:1</td>
<td>-/120/120</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td>Solid normal weight/light-weight concrete floors (FRL 120/120/120)</td>
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<td>Floor</td>
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<td>1.5:1</td>
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<td>Floor</td>
<td>120 mm</td>
<td>40 mm</td>
<td>2:1</td>
<td>-/120/120</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td></td>
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<td>Floor</td>
<td>120 mm</td>
<td>50 mm</td>
<td>2.5:1</td>
<td>-/120/120</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor</td>
<td>150 mm</td>
<td>20 mm</td>
<td>2:1</td>
<td>-/180/180</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td>Solid normal weight/light-weight concrete floors (FRL 180/180/180)</td>
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<td>30 mm</td>
<td>1.5:1</td>
<td>-/180/180</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor</td>
<td>150 mm</td>
<td>40 mm</td>
<td>2:1</td>
<td>-/180/180</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor</td>
<td>150 mm</td>
<td>50 mm</td>
<td>2.5:1</td>
<td>-/180/180</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor</td>
<td>170 mm</td>
<td>20 mm</td>
<td>2:1</td>
<td>-/240/240</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td>Solid normal weight/light-weight concrete floors (FRL 240/240/240)</td>
<td></td>
<td>Floor</td>
<td>170 mm</td>
<td>30 mm</td>
<td>1.5:1</td>
<td>-/240/240</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor</td>
<td>170 mm</td>
<td>40 mm</td>
<td>2:1</td>
<td>-/240/240</td>
<td>Single seal on fire side or double seal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor</td>
<td>170 mm</td>
<td>50 mm</td>
<td>2.5:1</td>
<td>-/240/240</td>
<td>Single seal on fire side or double seal</td>
</tr>
</tbody>
</table>
FIRE RESISTANCE OF JOINTS WITH Sika® Boom-FR

**FIRE RESISTANCE OF Sika Boom®-FR, TESTED ACCORDING TO BS 476:20 1987 & ASSESSED IN COMPLIANCE WITH AS 1530.4 - 2005**

<table>
<thead>
<tr>
<th>Substrates</th>
<th>Sika Boom®-FR</th>
<th>Element type</th>
<th>Minimum element thickness</th>
<th>Joint width</th>
<th>Joint depth</th>
<th>Resistance class according to BS 476:20 1987/AS 1530.4 2005</th>
<th>Kind of sealing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoclaved Aerated Concrete Walls 670 kg/m³</td>
<td></td>
<td>Wall A</td>
<td>250 mm</td>
<td>15 mm</td>
<td>250 mm</td>
<td>-/240/240</td>
<td>Double seal (no backing material)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wall B</td>
<td>250 mm</td>
<td>20 mm</td>
<td>180 mm</td>
<td>-/180/180</td>
<td>Single seal on fire side (no backing material)</td>
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<tr>
<td></td>
<td></td>
<td>Wall C</td>
<td>250 mm</td>
<td>45 mm</td>
<td>60 mm</td>
<td>-/240/240</td>
<td>Double seal (with backing material)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wall D</td>
<td>250 mm</td>
<td>30 mm</td>
<td>80 mm</td>
<td>-/240/240</td>
<td>Double seal (with backing material)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wall E</td>
<td>250 mm</td>
<td>15 mm</td>
<td>150 mm</td>
<td>-/120/120</td>
<td>Single seal on fire side (no backing material)</td>
</tr>
<tr>
<td>Autoclaved Aerated Concrete Floors 670 kg/m³</td>
<td></td>
<td>Floor F</td>
<td>250 mm</td>
<td>15 mm</td>
<td>250 mm</td>
<td>-/240/240</td>
<td>Double seal (no backing material)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor G</td>
<td>250 mm</td>
<td>30 mm</td>
<td>200 mm</td>
<td>-/240/240</td>
<td>Single seal non-fire side (with backing material)</td>
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<tr>
<td></td>
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<td>Floor H</td>
<td>250 mm</td>
<td>45 mm</td>
<td>150 mm</td>
<td>-/240/240</td>
<td>Single seal non-fire side (with backing material)</td>
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<td></td>
<td>Floor I</td>
<td>250 mm</td>
<td>20 mm</td>
<td>140 mm</td>
<td>-/60/60</td>
<td>Single seal on fire side (no backing material)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Floor J</td>
<td>250 mm</td>
<td>15 mm</td>
<td>100 mm</td>
<td>-/90/30</td>
<td>Single seal on fire side (no backing material)</td>
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</tbody>
</table>

**KEY**
1. Sika Boom®-FR
2. Backing material - Rockwool RPB-12 Mineral rock fibre (110 kg/m³)
3. Autoclaved aerated concrete wall/floor (670 kg/m³)

Section through wall specimen

Section through floor specimen
FIRE PROTECTIVE COATINGS FOR LOAD BEARING STRUCTURES

Sika® Unitherm Platinum: intumescent and fire resistant

Sika® Unitherm® and Sika® Pyroplast® are fire protection coatings that are applied on building materials like steel, wood, concrete and cables. Under the impact of heat the surface of the coating softens and the coating swells to form a foam. The originally millimetre-thin coating converts into a centimetre-thick, micro-porous foam that insulates the substrate against heat.

For a safe evacuation of the building in case of fire, fire protection regulations require that the structural construction elements of a building are effectively protected from losing their load-bearing stability for a certain time.

STEEL

Steel structures do not burn but can lose their load-bearing capability and static stability under the impact of fire and heat within a few minutes. The activated fire protection coating delays when the steel structure reaches the critical temperature of 500°C.

- Sika has several products for steel protection coatings in various colours.
- Sika® Unitherm® Platinum: Two component epoxy coating for exterior and interior steel structures

WOOD

Wood is a natural building material with a multitude of uses in construction. However, wood is flammable and especially when used in public buildings needs to be protected for the case of fire. Sika® Pyroplast® inhibits or delays inflammation of the wood surface and hinders the spreading of fire by limiting the access to oxygen. Sika fire protection coatings combine highest protection with aesthetic advantages and do not affect the natural beauty of the wood.

In the case of fire in a tunnel, the concrete can be exposed to extreme temperatures within a very short time. This heat causes high vapour pressure within the concrete that fractures and destroys it from the inside. Sikacrete®-213 F is a spray-applied mortar providing an insulating layer, which protects the load-bearing structural concrete from high temperatures.

Sikacrete®-213 F: Sprayed fire protection mortar for concrete

This pre-batched mortar is classed as a passive fire protection system and is applied by the wet-spray process. Sikacrete®-213 F is a fire protection mortar with exceptional heat insulation properties, applied in thin layers to provide reliable fire protection for concrete structures. The material is straightforward and easy to apply, with effective insulation being achieved with relatively low quantities and thickness of the material.

- High compressive strength and durability. This mortar is also designed to be frost resistant and is used in tunnels with high exposure stresses - such as lower temperatures, damp environments and abrasion from frequent cleaning.
- Thin-layer system
- High insulation
- Ready-to-use mortar
- Easy and fast application
- Low material consumption
- Tested according to RWS, ISO 8134 and HCinc
- High durability
- Coatable with Sikagard-Wallcoat

Sika® Unitherm Platinum

Sika® Unitherm Platinum revolutionized the fire protection market as it brings enormous advantages for the whole planning and realisation of a project. Sika® Unitherm Platinum is a solvent-free, epoxy resin based fire protection coating (R 30 - R 120) for steel for interior and exterior areas. The two component coating is applied on the steel structural elements in the workshop and the parts can be transported and installed after only 24 hours. The coating is highly resistant to mechanical impact and atmospheric conditions simplifying and accelerating the construction process compared to traditional products that have to be applied on site due to their sensitivity.

Advantages
- Independent fire testing according to EN 13381-8 & CE-Certification
- Classified according to ETAG 018-2: 2006 Type X & ISO 12944 C5M/I
- Fire protection performance: Classification B-s1, d0
- EN 13501-1
- 100% total solid content. Wet film thickness = dry film thickness
- In-shop application under controlled climatic conditions
- Short application and drying times. Ready for transport and handling only after 24 hours
- Can be applied with or without a primer
- No top coat needed
- Excellent corrosion protection
- High mechanical impact, shock and abrasion-resistant, minimizing transportation damages
- Resistant against any atmospheric conditions
- Simplifies and accelerates construction process and reduces project costs
- Cleaning of the coated surface is possible with high-pressure water jet

Sikacrete®-213 F: Sprayed fire protection mortar for concrete

Sikacrete®-213 F is a fire protection mortar with high compressive strength and durability. This mortar is also designed to be frost resistant and is used in tunnels with high exposure stresses - such as lower temperatures, damp environments and abrasion from frequent cleaning.

Advantages
- Thin-layer system
- High insulation
- Ready-to-use mortar
- Easy and fast application
- Low material consumption
- Tested according to RWS, ISO 8134 and HCinc
- High durability
- Coatable with Sikagard-Wallcoat

SEALING & BONDING
SIKA FIRE PROTECTION SOLUTIONS
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SIKA FIRE PROTECTION SOLUTIONS
WE ARE SIKA
Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika’s product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply.
Please consult the Data Sheet prior to any use and processing.

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