halumm STEEPLE partition system

Redefining Your Space

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halumm international GmbH grew out of Hannover Aluminium, which has a history of over 60 years in research and application of high performance aluminum products. halumm international GmbH is located in Gelsenkirchen, Germany, a famous new energy city in north-west Germany. With a strong industrial design capability and precision manufacturing technology, halumm has achieved excellent results in architectural decoration systems, and demountable partition systems.

Today, halumm is dedicated to research and application for energy conservation, environmental protection, acoustics and new energy, trying to create a secure, comfortable, healthy and eco-friendly living environment for all of the end users. The future is in multi-functional partition walls with e.g. heating, light, electronic blinds, air purification, and room control systems.
State-of-the-art imported machinery and highly educated operators allow halumm to manufacture steel elements and partitions that achieve the highest standard and fire ratings level.
Halumm partition walls have several key features that distinguish them against conventional office partition walls. Long-term benefits like faster re-decoration time and high reusability combined with strong fire rating make it a superior choice for modern class-A office solutions.

- **Installation time**: 3 times faster than regular partitions
- **Versatile design**
- **Fire proof with strong acoustic insulation**
- **Easy set up & change**
- **Faster set up than regular partition**
- **Less waste, 100% reusable**
- **Eco-friendly, green raw material**
- **Versatile design**
Large corporations undergo frequent re-organisations which make it necessary to adjust the office layout. With conventional partition walls, such a redecoration will produce much waste, loss of assets and disturbance of the workflow. No regular wall can be re-used because of damage. Ceiling and flooring are heavily affected and require renovation after dismantling.

halumm walls with their steel structure and standardized elements allow a much higher rate of re-use of up to 100%. This saves time, cost and is better for the environment. The TCO (Total Cost of Ownership) of this system will be 50% of a conventional system over a period of 5 years.

- Spring pillar for the ceiling: easy to remove and non-destructive.
- Flooring is not damaged and walls can be removed without renovating floor.
- less waste
halumm Partition System
Stainless Steel Office Partition
Regular Partition System
Aluminum Office Partitions
Gypsum Board Office Wall

Plan office layout
Measure and mark positions on ceiling and floor
Cut ceiling rails on-site
Cut pillar to target dimension on-site and add connector element
Compare set-up
Paint, dry, sand, paint, dry, sand, paint

SET-UP TIME
100 sqm/day*
REUSEABILITY
up to 100%

SET-UP TIME
30-40 sqm/day*
REUSEABILITY
50%

SET-UP TIME
15 sqm/day*
REUSEABILITY
0%

Measure and mark positions on ceiling and floor
Cut floor and install ceiling rail on walls
Cut floor and install metal floor rail with screws
Cut pillar to target dimension on-site and add connector element
Cut pillar and fix pillar with screws
Hang prefabricated panels into frame

Paint, dry, sand, paint, dry, sand, paint

Measure and mark positions on ceiling and floor
Put gypsum board front and back
Apply filler front and back
Sand surfaces front and back

Paint, dry, sand, paint, dry, sand, paint

Paint, dry, sand, paint, dry, sand, paint

Paint, dry, sand, paint, dry, sand, paint

SET-UP TIME
30-40 sqm/day*
REUSEABILITY
50%

SET-UP TIME
100 sqm/day*
REUSEABILITY
up to 100%

SET-UP TIME
15 sqm/day*
REUSEABILITY
0%

12 13 14

[1] team of 4 workers

compare set-up
Bored from looking at the same old wall all the time? Changing the look and feel of your office has never been easier: see how quickly you can exchange whole partition wall standard panels or even change the layout.

Have a look at how advanced partition system compares to regular partition wall and gypsum wall set-up regarding to set-up speed and re-usability.
With a few standard components, halumm office partitions can cover all requirements for a modern class-A office space. Concealed cabling, acoustic and thermal insulation, or highest fire rating can be achieved.

Any combination of steel panels, wood or tempered glass can be installed along with a selection of doors.
construction features

- Ceiling element with steel panel and insulation
- Hook structure on wall panels allows easy set-up
- Corner suicide appearance
- Floor element with insulation
- Receptor openings on frame structure
- Easy-to-reach concealed cabling within a panel
Wall Cladding (S-W)

Wall Cladding system uses a modular structural system with different finished surface to decorate the rough walls or increase practical functions. There are two options: one is Pre-roll coating and other one is steel panel with PVC film. (such as sound absorption, sound insulation, fire proof, radiation proof as well as hidden lockers, etc.)
Steel panel “Pure” (S-P)

Highest fire ratings can only be achieved with steel panels. They are available in a large selection of colors and decorative patterns and can be customized to match any architectural needs.
Steel panel “Verso” (S-V)

Verso wood appearance is manufactured either with pre-coated panels (Verso-I) or PVC decoration foil (Verso-II). Compliance with the highest fire-rating standards can also be achieved with the pre-coated Verso-I system in wood pattern.
glass panel with thin frame
glass panel frameless
Doors system come in many design options with visible wood texture, smooth surface or glass. Wooden doors use the German Sauerland extruded tubular or solid particle board. Sauerland boards meet the requirements for doors in residential and commercial buildings with respect to sound insulation, fire resistance, burglar-proofness and dimensional stability in different climates.

Any standard door handles can be used for halumm partition system.
halumm advanced partition is available for partition walls as well as wall cladding. Standard steel panels achieve the best fire rating as required by many public space projects in China and abroad.

Fire rating: 90 minutes endurance

Fire rating: 121 minutes endurance
For an ergonomic office workplace noise-reducing measures are of great importance. halumm partition system can be equipped with strong acousting insulation for more relaxing atmosphere within a large office space. Acoustic insulation is achieved by adding stone wool filling between the panels that can also increase fire resistance ratings.
G20 Hangzhou, China
53,000m²
Audi R&D Center
18,000m$^2$
Audi R&D Center
18,000m²
Mercedes-Benz
24,000m²
CSBC, Melbourne, Australia
6,000m²
Hamad Newport
Doha, Qatar
5,000m²
HUawei, Addax Tower  Bahrain
2,000m²

Projects
Ethiopia Airline  Addis Ababa, Ethiopia
19,000m²
Metro Control Center, Hangzhou
15,000m²
Great Wall Motor
26,000m²
Hangzhou Citizen Center
240,000m²
Shanghai Tower
52,000m²

projects
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<th>Parameter</th>
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<tr>
<td>Fire resistance: panels</td>
<td>EN 13501-1/GB8624 A1</td>
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<td>Fire resistance: structure</td>
<td>EN13501/GB8624 A1</td>
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<tr>
<td>Fire resistance: whole system</td>
<td>ISO3009/GB12513 120 (min)</td>
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<td>Acoustic insulation</td>
<td>ISO717/1/GB/T50121 45 dB / 53 dB with insulator</td>
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<td>Entity panel system for fire</td>
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<td>resistance performance</td>
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<td>Flexural behavior of steel frame</td>
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<tr>
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<tr>
<td>Total thickness of the partition</td>
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<td>Thickness panels</td>
<td>Steel panels</td>
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<tr>
<td>Structure width</td>
<td>Wood panels 29.6 kg</td>
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<td>Height regulation</td>
<td>Mineral wool 50 kg/m², thickness 50 mm</td>
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<tr>
<td>Approximate weight per m</td>
<td>Aluminium frame 915×2375 mm</td>
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<tr>
<td>Glass thickness</td>
<td>Tempered glass 6 mm/8 mm</td>
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### Module Standard

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