

Office

Shimizu Corporation – Nagoya

ACOUSTIC DIVIDER VARIO – Flexible acoustic solution for modern working environments.



Starting Point

The new Shimizu Corporation branch in Nagoya was designed as a «Communication HUB» – a place that connects people and promotes dialogue. The open atrium, the modern multi-display wall and flexible work areas characterise the architecture. A data-based management system was also integrated to optimise work processes. Particular attention was paid to the acoustic design, as both open communication areas and meeting rooms have different sound requirements.

Solution

To ensure optimum acoustics, textile solutions with sound-absorbing and sound-insulating properties are used. The SILENT acoustic curtain creates targeted quiet zones that enable a focussed working atmosphere. In glass meeting rooms and conference areas, customised curtains ensure flexible adaptation to the respective requirements. They can be opened or closed as required to provide both acoustic and visual screening. CRAFT, NOLIN and NAXOS fabrics are used here, which provide both privacy and a pleasant lighting effect with varying degrees of transparency. For the atrium, where events with microphones also take place, a four-layer ACOUSTIC DIVIDER VARIO acoustic curtain system with ARNO acoustic fabric is integrated. This not only enables effective sound insulation, but also a flexible design, as the front and rear sides can be fitted with different fabrics. Specific simulations are used to analyse the reverberation time in order to create an optimum balance between openness and acoustic comfort. The

Object

Shimizu Corporation, Nagoya, Japan
[shimz.co.jp](https://www.shimizu.co.jp)

Concept

SHIMIZU CORPORATION; FIELD FOUR DESIGN
OFFICE | Lighting M Inc.

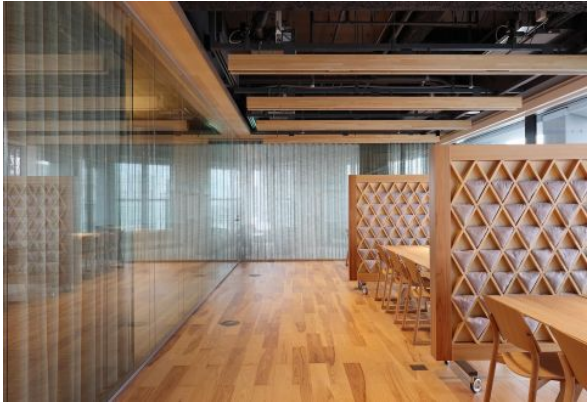
Photo

Kai Nakamura

result is a textile solution that combines functionality with design.

ACOUSTIC DIVIDER VARIO





Textiles Used



ARNO

Article-Number: 0101295

Use: Upholstery fabric for contract use

Number of colors: 34

Material: 100% Flame retardant (Trevira CS)

Fabric width: 140 cm/55 inch/1.53 yard

Weight: 381 g/m²

Sound absorption: α_w 0.90

Abrasion resistance: 40'000 Martindale

Pilling: 4-5

Light fastness: 4-5



SILENT

Article-Number: 0101695

Use: Dense curtain fabric

Number of colors: 12

Material: 100% Flame retardant (Trevira CS)

Fabric width: 300 cm/118 inch/3.28 yard

Weight: 320 g/m²

Sound absorption: α_w 0.80

Light fastness: 6-7



NOLIN

Article-Number: 0102220

Use: Transparent/semi-transparent curtain fabric

Number of colors: 16

Material: 100% Flame retardant (Trevira CS Eco)

Fabric width: 320 cm/126 inch/3.50 yard

Weight: 153 g/m²

Light fastness: 4-5



CRAFT

Article-Number: 0102225

Use: Transparent/semi-transparent curtain fabric

Number of colors: 11

Material: 100% Polyester

Fabric width: 290 cm/114 inch/3.17 yard

Weight: 205 g/m²

Light fastness: 5-6



NAXOS IV

Article-Number: 0100395
Use: Transparent/semi-transparent curtain fabric
Number of colors: 38
Material: 100% Flame retardant (Trevira CS)
Fabric width: 300 cm/118 inch/3.28 yard
Weight: 67 g/m²
Light fastness: 6-7



FOCUS

Article-Number: 0101690
Use: Dense curtain fabric
Number of colors: 50
Material: 100% Flame retardant (Trevira CS)
Fabric width: 300 cm/118 inch/3.28 yard
Weight: 324 g/m²
Sound absorption: α_w 0.60
Light fastness: 5-6