vektron ceiling solutions specification sheet

product name	vektron rytmi ceiling system

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vektron quality standard	
	vektron metal ceilings are manufactured to the highest international quality standards and must be installed, maintained and cleaned in accordance to our **Operation and maintenance manual**.
	vektron metal ceilings can be expected to remain durable for over 30 years.
	All vektron ceiling systems comply with the standard EN 13964.

vektron tiles	
	vektron tiles are manufactured from hot-dipped galvanised steel with a variety of perforations and colours. vektron ceiling tiles are clipped into a concealed suspension system, in accordance with European and TAIM standards.

tile specifications	
material	0,5-0,7mm hot-dipped galvanised steel with a minimum zinc coating of 50 g/m².
size	vektron rytmi standard tile width: 98mm cassette panel. Other sizes are available on request and are manufactured with a thickness depending on the dimensions of the vektron tile.
edge	vektron rytmi tiles don't have a shadow gap.
perforation pattern	The standard perforation has a hole diameter of 2.5mm with a square pitch and an open area of 16.5%. Other perforations are available. (see annex A)
finish	Electrostatically applied polyester powder coating with a paint thickness of minimum 60μm.
colour	8 standard colours available. (see annex B) Other RAL colours on request.
gloss rate	≤5% - ≤20% depending on colour. (see annex B)
light reflection	>80%
access to ceiling void	All tiles to be removable.

vektron rytmi tile

lamella	
material	Lamella made of natural or black anodised aluminium, with a thickness of 2mm.
access to ceiling void	All lamellas to be removable.
suspension	With cross connector in clip-in carrier.
standard installation pitch	100mm (other pitches on demand)

suspension system	
	Components are manufactured from cold rolled, bended or punched galvanised steel.
clip-in carrier	The clip-in carriers are roll formed double-walled T-shaped profiles (H 25mm x flange width 18mm) out of 0,5mm hot-dipped galvanised steel (DX51D+Z140MA), used as primary profile. Primary clip-in carrier to be suspended from structural load-bearing ceiling with lower part support hanger.
carrier splice	Carrier splice made of galvanised steel for connection of clip-in carriers.
support hanger	Hanger made out of galvanised steel with variable system for wire hooks diameter 4mm.
nonius hanger & locking clip	Hanger made of galvanised steel and fully perforated for suspension of ceiling systems. The upper and lower part nonius hanger are connected with a clip, made of galvanised steel.
cross connector	Cross connector made of galvanised steel for connection of primary and secondary clip-in carriers. Available in 2 sizes: H0 = 0mm between lamella and clip-in carrier H25 = 25mm between lamella and clip-in carrier

vektron rytmi cross section

vektron ceiling solutions
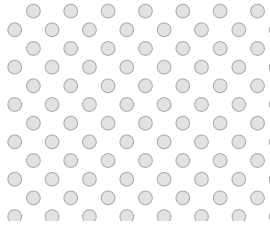# specification sheet

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luminaries and integrated techniques

The metal ceiling system is compatible with multiple vektron luminaries, vektron integrated techniques and other luminaries and techniques.

reaction to fire

Reaction to fire: vektron rytmi ceiling systems are tested in accordance with DIN 4102 part 1, the vektron rytmi ceiling system achieves the class A2-s2,d0.

manufacturing tolerances

vektron cassette panels and all corresponding subconstruction parts are manufactured in accordance with international quality standard for metal ceilings TAIM (Technical Association of Industrial Metal Ceiling Manufacturers) and EN 13964.

installation & maintenance

The installation and maintenance has to be executed in accordance with the **Operation and maintenance manual**.

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RD1821
diameter: 1,8mm
diagonal pitch: 2,47mm
% open area / perfofield: 21%
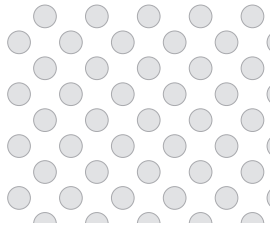
RD3028
diameter: 3,0mm
diagonal pitch: 3,43mm
% open area / perfofield: 30,1%

RS0802
diameter: 0,8mm
square pitch: 5,0mm
% open area / perfofield: 1,5%
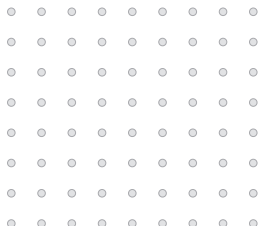
RS1005
diameter: 1,0mm
square pitch: 4mm
% open area / perfofield: 5%

RS1810
diameter: 1,8mm
square pitch: 2,47mm
% open area / perfofield: 10%
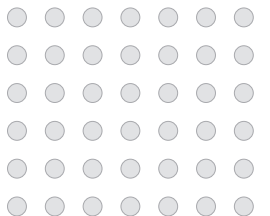
RS2516
diameter: 2,5mm
square pitch: 5,5mm
% open area / perfofield: 16,5%
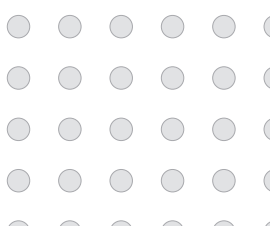
RS3015
diameter: 3,0mm
square pitch: 6,86mm
% open area / perfofield: 15%

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annex A   **perforations**
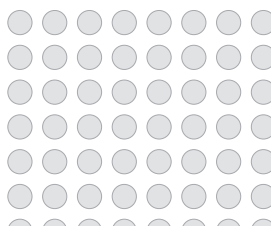
RS3238
diameter: 3,2mm
square pitch: 4,6mm
% open area / perfofield: 38,3%
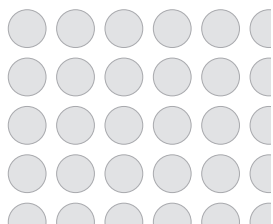
RS5048
diameter: 5mm
square pitch: 6,4mm
% open area / perfofield: 48,2%
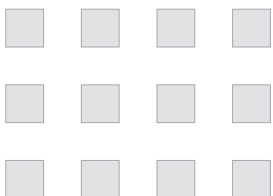
perforation S5
diameter: 5mm
square pitch: 10mm
% open area / perfofield: 25,6%
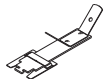
perforation S8
diameter: 8mm
square pitch: 12,5mm
% open area / perfofield: 41,9%

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annex B	colours and gloss rate
	vektron grey, gloss ≤ 10%
	vektron white, gloss ≤ 6%
	RAL9006, gloss ≤ 20%
	RAL7035, gloss ≤ 5%
	RAL7044, gloss ≤ 3%
	RAL9010, gloss ≥ 20%
	RAL9016, gloss ≤ 5%
	RAL9004, gloss ≤ 3%

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annex C   **components subconstruction**

|			
VK**770033**	clip-in carrier	VK**770126**	clip-in locking part
VK**770123**	cross connector H0	VK**7770185/1**	low nonius hanger 45mm lower part
VK**770125**	end cross connector H0	VK**770185/2**	low nonius hanger 75mm lower part
VK**770133**	cross connector H25	VK**770186/1**	low nonius hanger 45mm upper part
VK**770135**	end cross connector H25	VK**770186/2**	low nonius hanger 75mm upper part
VK**770163**	carrier splice + t-connection	VK**770184**	nonius hanger lower part
VK**770164**	t-connection	VKX**770184xxx**	nonius hanger upper part
VKX**770033016**	clip-in carrier mounting corner	VK**710113**	nonius locking clip
VK**770120**	profile wall anchor	VK**770183**	support hanger lower part
VK**770174**	flat mounting bracket	VKX**770183xxx**	support hanger ø 4mm upper part
VK**770182**	threaded support hanger H20	VK**760133**	c-wall profile clip
VK**770181**	threaded support hanger H100		