**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion LD.0065 (VV-L-1.3501)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile LD.0065 in extruded aluminium: 30 x 6.5 mm
* Minimum moment of inertia Iy = 261 mm4
* Blade supports are pre-assembled onto support profile LD.0065.
* Support profile mounted directly onto the underlying support structure
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile LD.0065 : mounted directly onto underlying support structure
* **System depth:**
* Blade L.066IM1 and support profile LD.0065 : 63,5 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)

**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion LD.0195 (VV-L-1.3502)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile LD.0195 in extruded aluminium: 36 x 17.5 mm
* Minimum moment of inertia Iy = 5.931 mm4
* Blade supports are pre-assembled onto support profile LD.0195.
* Support profile mounted using brackets LZ.4211, LZ.4209 or LZ.4206
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile LD.0195 : 604 mm
* **System depth:**
* Blade L.066IM1 and support profile LD.0195 : 74,5 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)

**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion LD.0460 (VV-L-1.3503)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile LD.0460 in extruded aluminium: 36 x 44,0 mm
* Minimum moment of inertia Iy = 83.348 mm4
* Blade supports are pre-assembled onto support profile LD.0460.
* Support profile mounted using brackets LZ.4211, LZ.4209 or LZ.4206
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile LD.0460 : 1.458 mm
* **System depth:**
* Blade L.066IM1 and support profile LD.0460 : 101 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)

**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion LD.0995 (VV-L-1.3504)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile LD.0995 in extruded aluminium: 36 x 97,5 mm
* Minimum moment of inertia Iy = 625.740 mm4
* Blade supports are pre-assembled onto support profile LD.0995.
* Support profile mounted using brackets LZ.4211, LZ.4209 or LZ.4206
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile LD.0995 : 2.839 mm
* **System depth:**
* Blade L.066IM1 and support profile LD.0995 : 154.5 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)

**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion SD.014 (VV-L-1.3505)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile SD.014 + LD.108 in extruded aluminium: 40 x 14,5 mm
* Minimum moment of inertia Iy = 37,137 . 10³ mm4
* Blade supports are pre-assembled onto support profile SD.014
* Support profile mounted directly onto the underlying support structure
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile SD.014 : mounted directly onto underlying support structure
* **System depth:**
* Blade L.066IM1 and support profile SD.014 : 71,5 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)

**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion SD.054 (VV-L-1.3506)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile SD.054 + LD.108 in extruded aluminium: 40 x 54 mm
* Minimum moment of inertia Iy = 208,672.10³ mm4
* Blade supports are pre-assembled onto support profile SD.054
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile SD.054 : 1.979
* **System depth:**
* Blade L.066IM1 and support profile SD.054 : 111 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)

**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion SD.100 (VV-L-1.3507)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile SD.100 in extruded aluminium: 40 x 100 mm
* Minimum moment of inertia Iy = 1.248,414.10³ mm4
* Blade supports are pre-assembled onto support profile SD.100
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile SD.100 : 3.593 mm
* **System depth:**
* Blade L.066IM1 and support profile SD.100 : 157 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)

**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion LD.0440 (VV-L-1.3508)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile LD.0440 in extruded aluminium: 36 x 44 mm
* Minimum moment of inertia Iy = 83.228 mm4
* Blade supports are pre-assembled onto support profile LD.440
* Support profile mounted using brackets LZ.4211, LZ.4209 or LZ.4206
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile LD.0440 : 1.457 mm
* **System depth:**
* Blade L.066IM1 and support profile LD.0440 : 101 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)

**LINIUS SPECIFICATION®**

**Product : RENSON LINIUS®**

**Type : L.066IM1 with mullion LD.1250 (VV-L-1.3509)**

**Description:**

RENSON LINIUS® CLS L.066IM1 consists of sections of extruded ALMgSi 0.5 aluminium with a surface treatment specified by the architect. The system consists of mutually connected blades for simple and invisible assembly by clipping the blades into the blade supports included in the system. Each blade has an integrated mesh at its backside to allow airflow while avoiding infiltration of insects. Using blades type L.033IM1 makes the application of an additional mesh useless.

**Standards:**

* Aluminium alloy: AlMgSi 0.5 (F25)
* Standard: EN AW-6063
* Annealing: T66
* Aluminium pre-treatment:
* as per DIN 50021 SS
* Strength calculations based on the following standards:
* ENV 1999-1-1: Calculation for aluminium structures
* NBN B-03-002-2: Wind load – Dynamic effects
* EN 1991-1-4: Wind load

**Surface treatment:**

* Anodised in natural colour F1 (20 micron): pre-treated and anodised
* Polyester powder coating in RAL or Syntha Pulvin® colours (60-80µ / 40µ(UK)): aluminium profiles pre-treated for corrosion resistance (DIN 5002155) to guarantee a firm powder coating, then heat-coated.

**System design:**

* **Blades:**
* Mutually connected blades L.066IM1 with integrated mesh, extruded aluminium
* Dimensions :
  + - Height : 76,5 mm
    - Depth : 55 mm
    - Pitch : 66 mm (15 blades per 1 metre height)
* Minimum moments of inertia Iy = 126.455 mm4 (strong axial line) ; Iz = 25.468 mm4, with minimum material thickness of 1,1 mm
* Invisible assembly by clipping the blades into the corresponding blade supports L.066.11 and L.066.12 (for joins)
* Visual free area : 70%
* Physical free area : 32%
* Perforation :
  + - dimensions: sleaves Ø 3,0 x 33 mm
    - centre distances : 4,7mm
* **Support structure:**
* Support profile LD.1250 in extruded aluminium: 36 x 125,0 mm
* Minimum moment of inertia Iy = 1.219.444 mm4
* Blade supports are pre-assembled onto support profile LD.1250
* Support profile mounted using brackets LZ.4211, LZ.4209 or LZ.4206
* Brackets in corrosion-resistant material
* **Span:**
* Maximum unsupported span of the system described at wind load qb = 800 Pa:
  + - Blade L.066IM1 : 2.233 mm
    - Support profile LD.1250 : 3.516 mm
* **System depth:**
* Blade L.066IM1 and support profile LD.1250 : 182 mm
* **Optional accessories:**
* Sill LZ.4140 and fixing bracket LZ.4201
* Premounted pivoting ventilation doors with continuous linear blades (see separate description)