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### 1. GENERAL CHARACTERISTICS

Linkeo wall-mounting cabinets are intended for digital infrastructures. Linkeo 19" wall-mounting cabinets are metal and provide IP20 - IK08 protection. They have a screen-printed safety glass door and are finished throughout in charcoal grey RAL 7016. Equipments (fan kit, shelves, casters, ...) complete the range.

#### ■ 1.1 Presentation

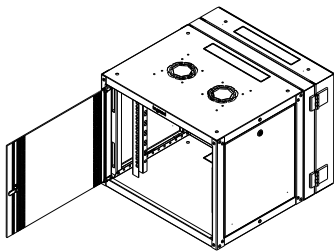
Linkeo pivoting 19" wall-mounting cabinets with removable side panels are delivered ready assembled.

The main parts of cabinets consisting of a pivoting body hinged to a monobloc back base. The body pivots to allow free access to the rear of the cabinet to facilitate installation and maintenance.

The pivoting body are:

- A screwed framework consisting of 2 end plates (top and bottom) and 4 corner uprights
- 2 side panels
- A screen-printed flat glass front door
- Two 19" uprights  
(two additional uprights possible from 12U capacity)
- A rear frame

The back base of the cabinet includes 3 precut cable entries (upper, lower and rear) which can be knocked with a mallet. Cable entries can be equipped with the brush supplied with the cabinet.



The top end plate includes 2 perforations for natural ventilation, capable of taking the fan kit cat. n° 6 462 38 (see section 5).

The door is made of a flat colourless transparent glass with screen-printing on the vertical edges and is fitted with a locking bolt. The door is removable and reversible.

The side panels are removable and fitted with a locking bolt.

### 1. GENERAL CHARACTERISTICS (continued)

The pivoting body is fitted with a locking lever bolt. Two guides allow a perfect alignment between the pivoting body and the back base after closing. The pivoting direction of the pivoting body is reversible.

The key is identical for all locks of the cabinet.

The 19" uprights have dual marking of the Us and can be adjusted in depth by 30 mm steps. The dual marking of the Us enables location in relation to the top or the bottom of the cabinet.

The 19" uprights are perforated with 9.5 x 9.5 mm square holes.

The back base allows mounting of 19" PDUs at the rear of the cabinet.

From 12U capacity, Linkeo 19" wall-mounting cabinets can be fitted with a set of 2 additional uprights at the back:

| Cat.No.  | Set of two 19" uprights |
|----------|-------------------------|
| 6 462 42 | For 12U cabinets        |
| 6 462 43 | For 15U cabinets        |
| 6 462 44 | For 18U cabinets        |
| 6 462 45 | For 21U cabinets        |

#### ■ 1.2 Standards

Linkeo 19" wall-mounting cabinets comply with the following standards:

|   |  |
|---|--|
| IEC 60529<br>EN 60529                   | (NF C 20-010) Degrees of protection provided by enclosures (IP code)   |
| IEC 62262<br>EN 62262                   | (NF EN 50102, NF C 20-015) Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) |
| IEC 60950-1<br>EN 60950-1<br>C 77-210-1 | Safety of information technology equipment   |
| EIA-310-E                               | Cabinets, racks, panels and associated equipment (ANSI/EIA/310-E-2005)   |
| IEC 60297-3-100<br>DIN 41414-7          | (NF C 20-150, NF C 20-151) Dimensions of mechanical structures of the 482.6 mm series (19 in)  |

### 1. GENERAL CHARACTERISTICS (continued)

Linkeo 19" wall-mounting cabinets can be integrated in installations complying with the following standards:

|                                  |  |
|----------------------------------|--|
| EN 50173-1                       | Information technology - Generic cabling systems   |
| EN 50174-1 & 2<br>C 90-480-1 & 2 | Information technology - Cabling installation  |
| ISO IEC 11801                    | Information technology - Generic cabling for customer premises   |
| NF C 15-100<br>Partie 4-41       | Low voltage electrical installations - recommendations   |
| IEC 60364-4-41                   | Low voltage electrical installations<br>- Protection for safety<br>- Protection against electric shock |
| UTE C90-483                      | Residential cabling for communication networks   |

### 2. RANGE

Linkeo pivoting 19" wall-mounting cabinets can be supplied in 5 heights:

| Capacity | Width <sup>(1)</sup><br>(mm) | Depth <sup>(1)</sup><br>(mm) | Cabinet<br>Cat. No. |
|----------|------------------------------|------------------------------|---------------------|
| 9U       | 600                          | 610                          | 6 462 21            |
| 12U      |                              |                              | 6 462 22            |
| 15U      |                              |                              | 6 462 23            |
| 18U      |                              |                              | 6 462 24            |
| 21U      |                              |                              | 6 462 25            |

(1) Designated dimensions. See section 4.1 for overall dimensions.

### 3. TECHNICAL CHARACTERISTICS

#### ■ 3.1 Index of protection

- IP20 according to IEC EN 60529  
Protected against solid objects larger than 12.5 mm in diameter
- IK08 according to IEC EN 62262  
Protected against mechanical impact with an energy of 5 joules

#### ■ 3.2 Mechanical performance

- Permissible load: 3 kg/U (i.e. 63 kg for a 21U cabinet)

#### ■ 3.3 Design

- Back base and rear frame made of 2 mm thick steel + paint
- End plates made of 1 mm thick steel + paint
- Corner uprights made of 1.5 mm thick steel + paint
- Side panels made of 0.8 mm thick steel + paint
- Door made of 4 mm thick safety glass
- Hinges made of black-painted metal
- Lever bolt made of black-painted steel
- Bolts made of chrome-plated metal + 2 keys
- Legrand marking by light grey sticker
- 19" uprights made of 1.5 mm thick galvanised steel
- Black plastic brush to clip

### 3. TECHNICAL CHARACTERISTICS (continued)

#### ■ 3.4 Corrosion resistance

- Corrosive environment class:  
C2 according to EN ISO 12944-2,  
3K3 according to IEC EN 60721-3-3
- Salt spray test according to ISO 9227 (NSS test) and IEC EN 60068-2-11 (Ka test) for 168 hours:  
degree of rusting Ri1 according to ISO 4628-3,  
propagation ≤ 1 mm according to ISO 4628-8
- Sulphur dioxide (SO<sub>2</sub>) test according to EN ISO 6988 for 48 hours:  
degree of rusting Ri1 according to ISO 4628-3,  
ISO 10289 annex A class 8 type image

#### ■ 3.5 Properties of the paint coating

- Thermosetting polyester paint applied by electrostatic dusting
- Charcoal grey RAL 7016
- Textured satin appearance
- 60 to 80 µm thick
- Excellent impact and scratch resistance
- Excellent resistance to cleaning agents (excluding strong chlorinated, fluorinated and ketone solvents)  
Some products may change the appearance. It is therefore advisable to carry out a test first
- Light exposure test (xenon-arc lamp) according to ISO 4892-2 method B for 500 hours: no visible fading

#### ■ 3.6 Electrical continuity of the conductive parts

Continuity of the cabinet metal conductive parts is achieved by design except for the side panels and also the pivoting body with the back base: the equipotential link should be created with the protective conductors supplied.

#### ■ 3.7 Weight

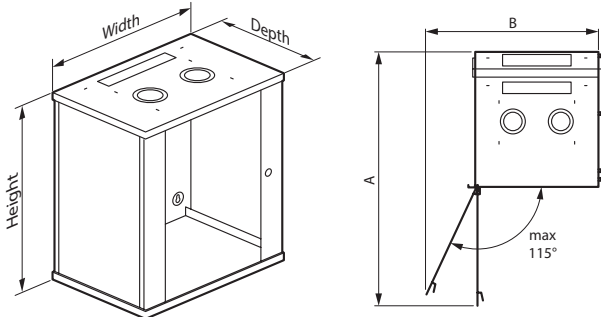
Weight excluding packaging.

| Cat. No. | Weight (kg) |
|----------|-------------|
| 6 462 21 | 31          |
| 6 462 22 | 36          |
| 6 462 23 | 40.5        |
| 6 462 24 | 45          |
| 6 462 25 | 50          |

#### 4. DIMENSIONS

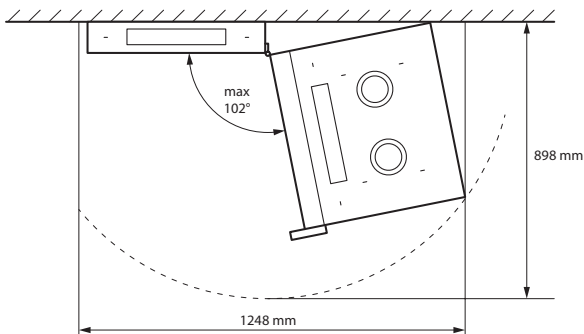
All dimensions are in mm.

##### 4.1 Overall dimensions

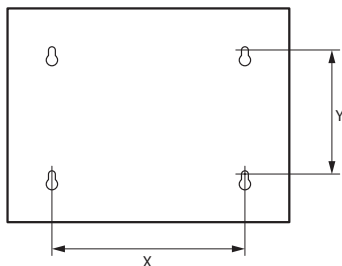


| Cat. No. | Capacity | Overall dimensions |                      |       | A    | B   |
|----------|----------|--------------------|----------------------|-------|------|-----|
|          |          | Height             | Width <sup>(1)</sup> | Depth |      |     |
| 6 462 21 | 9U       | 492                | 642                  | 615   | 1141 | 809 |
| 6 462 22 | 12U      | 625                |                      |       |      |     |
| 6 462 23 | 15U      | 759                |                      |       |      |     |
| 6 462 24 | 18U      | 892                |                      |       |      |     |
| 6 462 25 | 21U      | 1025               |                      |       |      |     |

<sup>(1)</sup> Add 100 mm for the displacement of the lever bolt



##### 4.2 Fixing dimensions



| Cat. No. | x   | y   |
|----------|-----|-----|
| 6 462 21 | 400 | 390 |
| 6 462 22 |     | 523 |
| 6 462 23 |     | 657 |
| 6 462 24 |     | 790 |
| 6 462 25 |     | 923 |

#### 4. DIMENSIONS (continued)

##### 4.3 Usable dimensions

###### Usable area

|     | In front side | Between 19" uprights | 19" uprights external side <sup>(1)</sup> |
|-----|---------------|----------------------|---|
| 9U  | 422 x 527     | 450                  | 41  |
| 12U | 555 x 527     |                      |   |
| 15U | 688 x 527     |                      |   |
| 18U | 821 x 527     |                      |   |
| 21U | 955 x 527     |                      |   |

<sup>(1)</sup> On both 19" uprights sides

###### Usable depth

|                    | Below door <sup>(1) (4)</sup> | Behind 19" upright <sup>(4)</sup> | Total |
|--------------------|-------------------------------|-----------------------------------|-------|
| Pivoting body only | 109 (19 min.)                 | 409 (499 max.) <sup>(2)</sup>     | 518   |
| Complete cabinet   |                               | 488 (578 max.) <sup>(3)</sup>     | 597   |

<sup>(1)</sup> Between 19" uprights front face and back face of the door

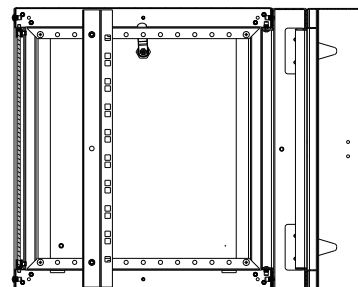
<sup>(2)</sup> Between 19" uprights front face and front 19" face of the back base

<sup>(3)</sup> Between 19" uprights front face and the bottom of the back base

<sup>(4)</sup> Can be adjusted in 30 mm steps

The back base can accept 19 inch PDUs with a maximum depth of 78 mm over the entire height of the cabinet (fixing centre: 516 mm).

##### Cross-section view (Cat. No. 6 462 21) :



##### Cables entries (back base)

Usable area of 300 x 50 mm

Centered in width.

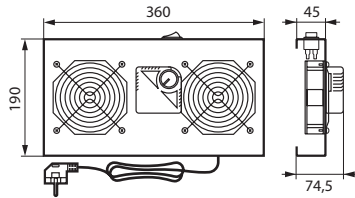
Upper and lower entries, in depth, center axis positioned to 51 mm of the back of the cabinet.

Rear entry, center axis positioned to 321 mm (9U) / 388 mm (12U) / 454 mm (15U) / 521 mm (18U) / 588 mm (21U) of the bottom of the cabinet.

## 5. FAN KIT

Linkeo 19" wall-mounting cabinets can take a fan kit installed at the top.

| Cat. No. | No. of fans | Output (m <sup>3</sup> /hr) |
|----------|-------------|-----------------------------|
| 6 462 38 | 2           | 160                         |



### Characteristics:

- IPXXB
- 230 V~ - 50/60 Hz power supply
- ON/OFF light switch
- Current: 0.25 A
- Power: 44 W
- Integrated thermostat, adjustable from -10 °C to +80 °C
- Equipped with 3 x 0.75 mm<sup>2</sup> flexible power supply cord, 2.3 m long with standard 2P+E French/German plug
- Base made of steel + paint (same as cabinets)
- Fixing screws supplied
- Charcoal grey RAL 7016

## 6. CASTERS

Linkeo 19" wall-mounting cabinets can be equipped with a set of 4 pivoting casters Cat. No. 6 462 48.

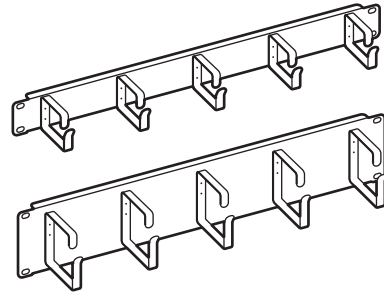
### Characteristics:

- Set of 4 pivoting casters, 2 of which have brakes
- Total load on the 4 casters: 115 kg max.
- Raise cabinet by 72 mm
- Plastic wheel (white and grey)
- Wheel dimensions: diameter 50 mm and width 20 mm
- Supplied with fixing screws

## 7. 19" EQUIPMENT

### 7.1 Linkeo management panels with 1 axe

- Metal panels with horizontal feedthrough



| Cat. No. | Height | Depth (mm) | Ring usable cross-section (mm <sup>2</sup> ) |
|----------|--------|------------|--|
| 6 465 20 | 1U     | 68         | 39 x 45                                      |
| 6 465 21 | 2U     | 77         | 65 x 55                                      |

- Panels made of 1 mm thick steel
- Rings made of 2.5 mm thick steel
- Supplied with screws and cage nuts with pins
- Black RAL 9005

### 7.2 Linkeo fixed shelves

- Projecting fixing by screwing onto 2 x 19" uprights



| Cat. No. | Depth (mm) | Usable width (mm) |
|----------|------------|-------------------|
| 6 465 01 | 200        | 435               |
| 6 465 02 | 360        | 435               |

- Height 2U
- Max. load: 15 kg
- 50 x 7 mm oblong perforations (possibility of clamping using cable ties)
- Supplied with screws and cage nuts with pins
- 0.8 mm thick steel
- Black RAL 9005