Installation dossier

Ready with warnings

PROJECT	FICTIONAL PILOT DOSSIER - DO NOT SUBMIT
CLIENT	Fictional sample client
CUSTOMER CONTACT	client@pilot.invalid · +32 000 00 00 00
INSTALLATION ADDRESS	Rue Exemple 24, bte 3, 1000 Bruxelles
INSTALLER	Fictional Installations Ltd
INSTALLER DETAILS	installer@pilot.invalid · BE 0000.000.000 · PILOT-NOT-VALID…
INSPECTION BODY	Fictional inspection body - not accredited · BE 0000.000.000…
EAN	540000000000000000
INSTALLATION TYPE	Domestic

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02 Site Plan · 2 pages

03 Circuit List · 1 pages

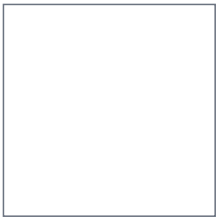
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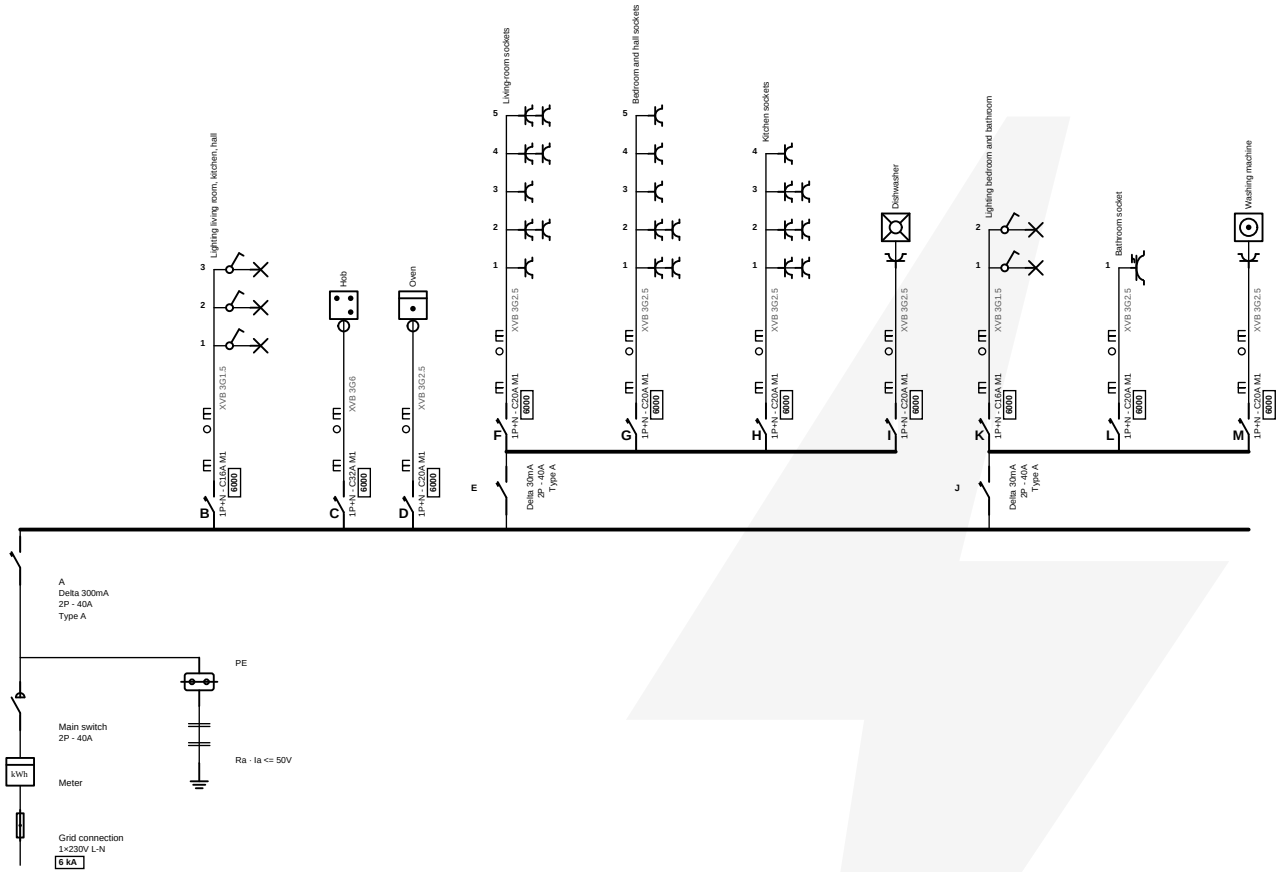
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Installation era	Current (new works)
Current type	Alternating current (AC)
Ruleset version	AREI/RGIE Book 1 · version 07 · applicable since 01/11/2026
Revision	A
Plan format	A4
Created	11/3/2026, 10:00:00 AM



This dossier documents the planning state and does not replace measurement reports or the official inspection by an approved inspection body.



Legend

Main switch-disconnector

Main earthing terminal / PE connection

Installation methods

Concealed in flexible conduit

AREI reference: AREI §5.2.2.1 e

SINGLE-LINE DIAGRAM

Plan no.: EDS-001

Rev: A | Sheet 1 | Domestic

Project: FICTIONAL PILOT DOSSIER - DO NOT SUBMIT

Address: Rue Exemple 24, bte 3, 1000 Bruxelles

Date: 03/11/26

1x230V · Alternating current (AC) · TT

Client: Fictional sample client

Contact: client@pilot.invalid · +32 000 00 00 00

Installer: Fictional Installations Ltd

Reg. no.: PILOT-NOT-VALID

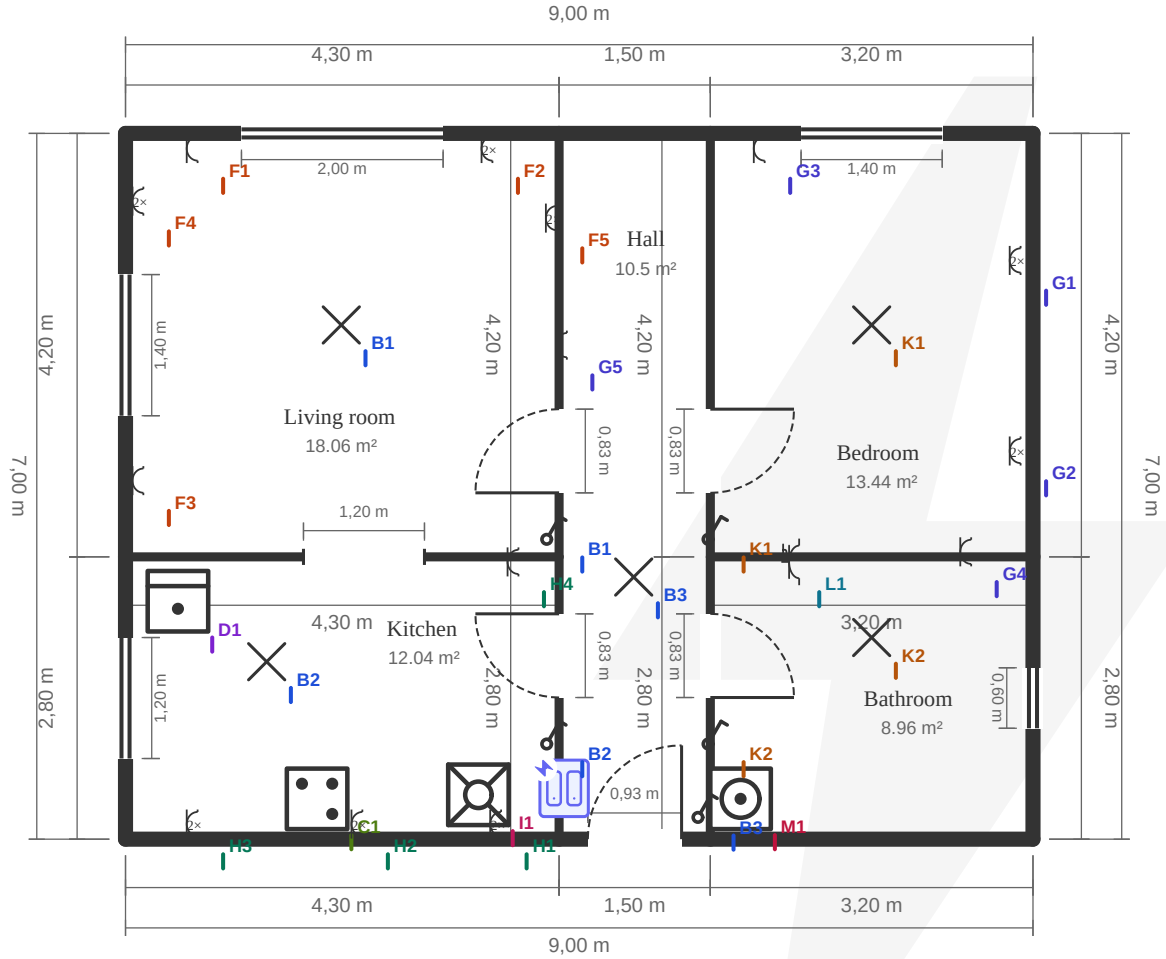
EAN: 540000000000000000

AREI/RGIE Art. 269-272

Fictional PlanElec sample. Not for inspection, ordering, or construction.

PlanElec.be

Created with planelec.be



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0 1 2 3 4 m

1:75

SITE PLAN

Plan no.: SIT-001

Rev: A | Apartment — Sheet 1 / 2 | Domestic

Project: FICTIONAL PILOT DOSSIER - DO NOT SUBMIT

Address: Rue Exemple 24, bte 3, 1000 Bruxelles

Date: 03/11/26

1x230V · Alternating current (AC) · TT · Scale: 1:75

Client: Fictional sample client

Contact: client@pilot.invalid · +32 000 00 00 00

Installer: Fictional Installations Ltd

Reg. no.: PILOT-NOT-VALID

EAN: 540000000000000000

AREI/RGIE Art. 269-272

Fictional PlanElec sample. Not for inspection, ordering, or construction.

PlanElec.be

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This diagram MUST be verified by a qualified electrician. No guarantee of correctness or RGIE compliance.

LEGEND


Dishwasher

Distribution board


Light point


Oven

Socket


Waterproof socket


Stove


Switch


Washing machine

SITE PLAN

Plan no.: SIT-001

Rev: A | Legend — Sheet 2 / 2 | Domestic

Project: FICTIONAL PILOT DOSSIER - DO NOT SUBMIT

Address: Rue Exemple 24, bte 3, 1000 Bruxelles

Date: 03/11/26

1x230V · Alternating current (AC) · TT · Scale: N/A

Client: Fictional sample client

Contact: client@pilot.invalid · +32 000 00 00 00

Installer: Fictional Installations Ltd

Reg. no.: PILOT-NOT-VALID

EAN: 540000000000000000

AREI/RGIE Art. 269-272

Fictional PlanElec sample. Not for inspection, ordering, or construction.

PlanElec.be

Created with planelec.be

This diagram MUST be verified by a qualified electrician. No guarantee of correctness or RGIE compliance.

Circuit List

Project: FICTIONAL PILOT DOSSIER - DO NOT SUBMIT
Client: Fictional sample client
Date: 2026-11-03

No.	Description	Protection	RCD	Cable type	Cross section	Phase	Room / Zone
30 mA RCD sockets — 40A 30mA Type A							
F	Living-room sockets	C 20A M1	40A 30mA Type A	XVB 3G2.5	2.5 mm²	L1	
G	Bedroom and hall sockets	C 20A M1	40A 30mA Type A	XVB 3G2.5	2.5 mm²	L1	
H	Kitchen sockets	C 20A M1	40A 30mA Type A	XVB 3G2.5	2.5 mm²	L1	
I	Dishwasher	C 20A M1	40A 30mA Type A	XVB 3G2.5	2.5 mm²	L1	
30 mA RCD bathroom — 40A 30mA Type A							
K	Lighting bedroom and bathroom	C 16A M1	40A 30mA Type A	XVB 3G1.5	1.5 mm²	L1	
L	Bathroom socket	C 20A M1	40A 30mA Type A	XVB 3G2.5	2.5 mm²	L1	
M	Washing machine	C 20A M1	40A 30mA Type A	XVB 3G2.5	2.5 mm²	L1	
300 mA RCD — 40A 300mA Type A							
B	Lighting living room, kitchen, hall	C 16A M1	40A 300mA Type A	XVB 3G1.5	1.5 mm²	L1	
C	Hob	C 32A M1	40A 300mA Type A	XVB 3G6	6 mm²	L1	
D	Oven	C 20A M1	40A 300mA Type A	XVB 3G2.5	2.5 mm²	L1	

Self-check report

AREI/RGIE self-check

SUPPORTED CHECKS WITHOUT ERRORS

0 errors • 0 warnings • 3 notices

Checked on: 03/11/2026, 10:00

1. Installation overview

Project:	FICTIONAL PILOT DOSSIER - DO NOT SUBMIT
EAN:	540000000000000000
Address:	Rue Exemple 24, bte 3, 1000 Bruxelles
Customer:	Fictional sample client
Installer:	Fictional Installations Ltd · PILOT-NOT-VALID
Inspection body:	Fictional inspection body - not accredited · BE 0000.000.000 · Avenue Pilote 7, 1030 Schaerbeek
Installation type:	Domestic
Current type:	Alternating current (AC)
Earthing system:	TT
Voltage:	1x230V
Main equipotential bonding:	Water pipe, Heating/air conditioning
Installation era:	Current (new works)
Rooms:	5
Distribution boards:	1
Circuits:	10
Consumers:	29
Total load:	18.7 kW

2. Installation age & AREI part 8

Current (new works):	10 circuit(s)

No Part 8 deviations — current requirements apply.

3. Results by category

Protection measures	3 notices

4. Detailed results

#1 300 mA RCD "300 mA RCD" (type A) is not time-delayed — no selectivity to the 30 mA RCD "30 mA RCD sockets"

Recommendation (not an AREI/RGIE violation) | Reference: IEC 60364-5-53 | Notice

As an IEC 60364-5-53 practice recommendation, PlanElec recommends both a sensitivity ratio of at least 3× and time grading of more than 40 ms for selectivity. The upstream RCD does not meet the time-grading recommendation; this is not treated as an AREI/RGIE violation.

-> Review the upstream device for a selective Type-S RCD or a documented delay greater than 40 ms.

#2 300 mA RCD "300 mA RCD" (type A) is not time-delayed — no selectivity to the 30 mA RCD "30 mA RCD bathroom"

Recommendation (not an AREI/RGIE violation) | Reference: IEC 60364-5-53 | Notice

As an IEC 60364-5-53 practice recommendation, PlanElec recommends both a sensitivity ratio of at least 3× and time grading of more than 40 ms for selectivity. The upstream RCD does not meet the time-grading recommendation; this is not treated as an AREI/RGIE violation.

-> Review the upstream device for a selective Type-S RCD or a documented delay greater than 40 ms.

#3 No surge protection (SPD) — recommended best practice

AREI AREI_4.5.1 | Notice

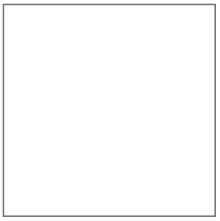
AREI 4.5.1 requires protection against overvoltages "according to the relevant rules of the trade". A surge protective device (SPD type 2) is recommended in Belgium as state of the art, but is not explicitly mandatory for domestic installations.

-> SPD type 2 recommended in the main board, especially for: exposed locations, PV installations, abundant electronics, low-voltage overhead lines or lightning protection systems (then possibly SPD type 1+2).

5. Check protocol per rule (Pass/Fail)

28 rule(s) checked • 28 passed • 0 flagged

[OK] Main RCD (AREI AREI_4.2.4.3)
[OK] Max. circuits per high-sensitivity RCD (AREI AREI_4.2.4.3_b)
[OK] Cable cross-section (AREI AREI_5.2.2)
[OK] Max. contact points per final circuit (AREI AREI_5.3.5.2b)
[OK] Complete connections
[OK] Project integrity
[OK] RCD selectivity (practice recommendation)
[OK] Minimum number of lighting circuits (AREI AREI_5.3.5.2.b)
[OK] Dedicated circuits for large appliances (AREI AREI_5.2.1.2)
[OK] 30 mA RCD for socket circuits (AREI AREI_4.2.4.3_b)
[OK] Surge protection (SPD) (AREI AREI_4.5.1)
[OK] Main equipotential bonding (AREI AREI_4.2.3.2)
[OK] Earth electrode (ring earth/earth rod) (AREI AREI_4.2.3)
[OK] Earthing and supply plausibility
[OK] Main switch min. 40 A (AREI AREI_5.3.5.1.b)
[OK] Main RCD min. 40 A (AREI AREI_5.3.5.3.a)
[OK] Bathroom zones 0/1/2: permitted equipment (AREI AREI_7.1.5.2)
[OK] Voltage drop (Delta U) (AREI AREI_5.2.5)
[OK] CPR cable fire-performance class (AREI AREI_5.2.7.2)
[OK] Distribution-board layout
[OK] Installation dossier (AREI 9.1.2)
[OK] Smoke-detector coverage (recommendation)
[OK] Consumers placed on the situation plan
[OK] Unlinked electrical floor-plan symbols
[OK] Pole configuration in residential installations (AREI AREI_4.4.4.2)
[OK] Trip characteristic versus load type
[OK] Switch-control group plausibility
[OK] Breaking capacity versus prospective short-circuit current (AREI AREI_5.3.5.5)



6. Data gaps (not checked)

No data gaps within the supported rules.

Check coverage

This report evaluates only the currently supported rules that can be checked from the recorded project data. It does not replace professional review or an official inspection.

7. Conclusion

No errors were found in the checks currently supported.

This report is a software-assisted self-check of the currently supported rules that can be evaluated from the recorded project data. The integrated full rule text is Book 1, Version 07; the product logic covers it only partially. This report does not replace professional review or an official inspection by an accredited inspection body.

Material List / Bill of Materials

Project: FICTIONAL PILOT DOSSIER - DO NOT SUBMIT
Date: 2026-11-03
26 positions

Detailed, manufacturer-neutral model list with transparent base assumptions — verify professionally before quoting or ordering; not approved for purchase.

Material derivation assumptions

- Wiring accessories: manufacturer-neutral white standard range; inserts, covers and frames are listed separately. Boxes follow an explicitly linked wall; otherwise hollow-wall boxes are assumed for rooms containing hollow walls, and flush boxes elsewhere.
- Fixed appliances include a connection box, terminal and strain relief; appliance-specific accessories are not included.
- Cable lengths are net lengths from the model; waste and installation allowances are not included.
- PV DC string cables count positive and negative conductors at twice the stored one-way route length. Only an explicitly carried PE/equipotential conductor is counted separately at one-way length; no module-frame PE is added.
- Distribution enclosures and busbars follow the modeled row and module count; in this pilot, each active row assumes two end caps and one feed terminal regardless of separate RCD sections.
- All positions are manufacturer-neutral and must later be mapped to specific product references.

Pos	Cat.	Description	Qty	Unit	Circuit
Equipment and inserts					
1	Equipment and inserts	IP44 splash-resistant socket insert	1	pcs	L
2	Equipment and inserts	Meter	1	pcs	
3	Equipment and inserts	Single switch insert	5	pcs	B, K
4	Equipment and inserts	Socket insert 2P+E, 16 A	24	pcs	F, G, H, I, M
Covers and frames					
5	Covers and frames	1-gang cover frame	13	pcs	B, F, G, H, I, K, M
6	Covers and frames	1-gang IP44 cover frame with sealing gasket	1	pcs	L
7	Covers and frames	2-gang cover frame	8	pcs	F, G, H
8	Covers and frames	Hinged cover for IP44 splash-resistant socket	1	pcs	L
9	Covers and frames	Single rocker	5	pcs	B, K
10	Covers and frames	Socket outlet cover plate	24	pcs	F, G, H, I, M
Installation material					
11	Installation material	Ceiling outlet box	5	pcs	B, K
12	Installation material	Fixed-appliance connection box	2	pcs	C, D
13	Installation material	Fixed-appliance connection terminal	2	pcs	C, D
14	Installation material	Flush-mounting device box	30	pcs	B, F, G, H, I, K, L, M
15	Installation material	Lighting connection terminal	5	pcs	B, K
16	Installation material	Strain relief	2	pcs	C, D
Protection devices					
17	Protection devices	Miniature circuit breaker (MCB) 1P+N C16A M1 230V 6kA	2	pcs	B, K

Pos	Cat.	Description	Qty	Unit	Circuit
18	**Protection devices**	**Miniature circuit breaker (MCB) 1P+N C20A M1 230V 6kA**	**7**	**pcs**	**D, F, G, H, I, L, M**
19	Protection devices	Miniature circuit breaker (MCB) 1P+N C32A M1 230V 6kA	1	pcs	C
20	Protection devices	Residual-current device (RCD) 2P 40A 300mA Type A 230V	1	pcs	
21	Protection devices	Residual-current device (RCD) 2P 40A 30mA Type A 230V	2	pcs	
Distribution					
22	Distribution	Distribution enclosure, 3 rows of 18 modules (54 modules)	1	pcs	
23	Distribution	Main switch 2P 40A 230V	1	pcs	
Cables					
24	Cables	XVB 3G1.5 · CPR Cca · F1 not specified	64.6	m	B, K
25	Cables	XVB 3G2.5 · CPR Cca · F1 not specified	122.3	m	D, F, G, H, I, L, M
26	Cables	XVB 3G6 · CPR Cca · F1 not specified	4.1	m	C

Cable quantities

Quantity planning from the connection and route model, not electrical sizing. A sheathed cable counts once, not per conductor; reserve conductors do not lengthen the cable.

Reserve: no project rule, per-cable values only.

29 cables · 191.0 m including 0.0 m reserve · 0 without a derivable length (missing from the total)

Totals by cable type and cross-section

Cable type	Qty	Length (m)	Reserve (m)	Source
XVB 3G1.5	10	64.6	0.0	10 calculated (route)
XVB 3G2.5	18	122.3	0.0	18 calculated (route)
XVB 3G6	1	4.1	0.0	1 calculated (route)
Total	**29**	**191.0**	**0.0**	**29 calculated (route)**

Totals by room (target area)

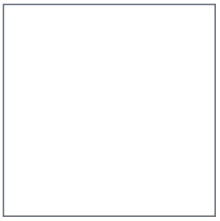
Cable type	Qty	Length (m)	Reserve (m)	Source
No room · 29 · 191.0 m				
XVB 3G1.5	10	64.6	0.0	10 calculated (route)
XVB 3G2.5	18	122.3	0.0	18 calculated (route)
XVB 3G6	1	4.1	0.0	1 calculated (route)

Totals by system

Cable type	Qty	Length (m)	Reserve (m)	Source
Power · 29 · 191.0 m				
XVB 3G1.5	10	64.6	0.0	10 calculated (route)
XVB 3G2.5	18	122.3	0.0	18 calculated (route)
XVB 3G6	1	4.1	0.0	1 calculated (route)

Positions with rule

No.	Cable type	From -> To	Length (m)	Source	Rule
C01	XVB 3G1.5	Lighting living room, kitchen, hall -> Switch Living room	4.7	calculated (route)	Horizontal 2.7 + vertical 2.0 + transition 0.0 + reserve 0.0 m (no reserve)
C02	XVB 3G1.5	Lighting living room, kitchen, hall -> Ceiling light Living room	10.3	calculated (route)	Horizontal 6.8 + vertical 3.5 + transition 0.0 + reserve 0.0 m (no reserve)
C03	XVB 3G1.5	Lighting living room, kitchen, hall -> Switch Kitchen	2.7	calculated (route)	Horizontal 0.7 + vertical 2.0 + transition 0.0 + reserve 0.0 m (no reserve)
C04	XVB 3G1.5	Lighting living room, kitchen, hall -> Ceiling light Kitchen	7.7	calculated (route)	Horizontal 4.2 + vertical 3.5 + transition 0.0 + reserve 0.0 m (no reserve)
C05	XVB 3G1.5	Lighting living room, kitchen, hall -> Switch Hall	3.6	calculated (route)	Horizontal 1.6 + vertical 2.0 + transition 0.0 + reserve 0.0 m (no reserve)
C06	XVB 3G1.5	Lighting living room, kitchen, hall -> Ceiling light Hall	6.3	calculated (route)	Horizontal 2.8 + vertical 3.5 + transition 0.0 + reserve 0.0 m (no reserve)
C07	XVB 3G6	Hob -> Hob	4.1	calculated (route)	Horizontal 2.6 + vertical 1.5 + transition 0.0 + reserve 0.0 m (no reserve)
C08	XVB 3G2.5	Oven -> Oven	7.2	calculated (route)	Horizontal 5.7 + vertical 1.5 + transition 0.0 + reserve 0.0 m (no reserve)
C09	XVB 3G2.5	Living-room sockets -> Socket Living room 1	11.2	calculated (route)	Horizontal 10.0 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)



No.	Cable type	From -> To	Length (m)	Source	Rule
C10	XVB 3G2.5	Living-room sockets -> Double socket Living room 2	8.3	calculated (route)	Horizontal 7.1 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C11	XVB 3G2.5	Living-room sockets -> Socket Living room 3	8.5	calculated (route)	Horizontal 7.3 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C12	XVB 3G2.5	Living-room sockets -> Double socket Living room 4	11.2	calculated (route)	Horizontal 10.0 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C13	XVB 3G2.5	Living-room sockets -> Double socket Living room 5	7.0	calculated (route)	Horizontal 5.8 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C14	XVB 3G2.5	Bedroom and hall sockets -> Double socket Bedroom 1	10.9	calculated (route)	Horizontal 9.7 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C15	XVB 3G2.5	Bedroom and hall sockets -> Double socket Bedroom 2	9.0	calculated (route)	Horizontal 7.8 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C16	XVB 3G2.5	Bedroom and hall sockets -> Socket Bedroom 3	9.5	calculated (route)	Horizontal 8.3 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C17	XVB 3G2.5	Bedroom and hall sockets -> Socket Bedroom 4	7.6	calculated (route)	Horizontal 6.4 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C18	XVB 3G2.5	Bedroom and hall sockets -> Socket Hall 1	5.6	calculated (route)	Horizontal 4.4 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C19	XVB 3G2.5	Kitchen sockets -> Double socket Kitchen 1	2.2	calculated (route)	Horizontal 1.0 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C20	XVB 3G2.5	Kitchen sockets -> Double socket Kitchen 2	3.6	calculated (route)	Horizontal 2.4 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C21	XVB 3G2.5	Kitchen sockets -> Double socket Kitchen 3	5.2	calculated (route)	Horizontal 4.0 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C22	XVB 3G2.5	Kitchen sockets -> Fridge socket	3.9	calculated (route)	Horizontal 2.7 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C23	XVB 3G2.5	Dishwasher -> Dishwasher	2.4	calculated (route)	Horizontal 0.9 + vertical 1.5 + transition 0.0 + reserve 0.0 m (no reserve)
C24	XVB 3G1.5	Lighting bedroom and bathroom -> Switch Bedroom	6.1	calculated (route)	Horizontal 4.1 + vertical 2.0 + transition 0.0 + reserve 0.0 m (no reserve)
C25	XVB 3G1.5	Lighting bedroom and bathroom -> Ceiling light Bedroom	11.1	calculated (route)	Horizontal 7.6 + vertical 3.5 + transition 0.0 + reserve 0.0 m (no reserve)
C26	XVB 3G1.5	Lighting bedroom and bathroom -> Switch Bathroom	4.1	calculated (route)	Horizontal 2.1 + vertical 2.0 + transition 0.0 + reserve 0.0 m (no reserve)
C27	XVB 3G1.5	Lighting bedroom and bathroom -> Ceiling light Bathroom	8.0	calculated (route)	Horizontal 4.5 + vertical 3.5 + transition 0.0 + reserve 0.0 m (no reserve)
C28	XVB 3G2.5	Bathroom socket -> Socket Bathroom 1	5.7	calculated (route)	Horizontal 4.5 + vertical 1.2 + transition 0.0 + reserve 0.0 m (no reserve)
C29	XVB 3G2.5	Washing machine -> Washing machine	3.4	calculated (route)	Horizontal 1.9 + vertical 1.5 + transition 0.0 + reserve 0.0 m (no reserve)

Check list

No findings.

Source: “calculated” follows the route, “estimated” is a legacy value without a route, “manual” survives every recalculation. The model holds no measured or approved lengths.

Cable list

Project: FICTIONAL PILOT DOSSIER - DO NOT SUBMIT
Client: Fictional sample client
Date: 2026-11-03

No.	Cable type	Connection type	Device	Socket	Conductor size	Installation method	Length (m)	From	To	Terminal	Current (A)	Delta U (%)	End voltage (V)	Circuit	Status
C01	XVB				1.5 mm²	Concealed in flexible conduit 4.5 m Concealed in flexible conduit 1.5 m	4.7	Lighting…	Switch L…		12.80	0.58	228.67	B	OK
C02	XVB				1.5 mm²	Concealed in flexible conduit 6.5 m Concealed in flexible conduit 3.5 m	10.3	Lighting…	Ceiling li…		12.80	1.27	227.08	B	OK
C03	XVB				1.5 mm²	Concealed in flexible conduit 2.5 m Concealed in flexible conduit 1.5 m	2.7	Lighting…	Switch…		12.80	0.33	229.25	B	OK
C04	XVB				1.5 mm²	Concealed in flexible conduit 3.0 m Concealed in flexible conduit 4.5 m	7.7	Lighting…	Ceiling li…		12.80	0.95	227.81	B	OK
C05	XVB				1.5 mm²	Concealed in flexible conduit 2.0 m Concealed in flexible conduit 3.0 m	3.6	Lighting…	Switch…		12.80	0.44	228.99	B	OK
C06	XVB				1.5 mm²	Concealed in flexible conduit 4.0 m Concealed in flexible conduit 2.0 m	6.3	Lighting…	Ceiling li…		12.80	0.78	228.22	B	OK
C07	XVB				6 mm²	Concealed in flexible conduit 2.0 m Concealed in flexible conduit 4.0 m	4.1	Hob	Hob		25.60	0.25	229.42	C	OK
C08	XVB				2.5 mm²	Concealed in flexible conduit 3.5 m Concealed in flexible conduit 5.5 m	7.2	Oven	Oven		16.00	0.66	228.47	D	OK
C09	XVB				2.5 mm²	Concealed in flexible conduit 8.0 m Concealed in flexible conduit 5.5 m	11.2	Living-r…	Socket…		16.00	1.04	227.61	F	OK

No.	Cable type	Connection type	Device	Socket	Conductor size	Installation method	Length (m)	From	To	Terminal	Current (A)	Delta U (%)	End voltage (V)	Circuit	Status
C10	XVB				2.5 mm²	Concealed in flexible conduit 8.0 m Concealed in flexible conduit 2.5 m	8.3	Living-r…	Double…		16.00	0.77	228.24	F	OK
C11	XVB				2.5 mm²	Concealed in flexible conduit 5.0 m Concealed in flexible conduit 5.5 m	8.5	Living-r…	Socket…		16.00	0.78	228.20	F	OK
C12	XVB				2.5 mm²	Concealed in flexible conduit 7.5 m Concealed in flexible conduit 6.0 m	11.2	Living-r…	Double…		16.00	1.04	227.61	F	OK
C13	XVB				2.5 mm²	Concealed in flexible conduit 7.5 m Concealed in flexible conduit 1.5 m	7.0	Living-r…	Double…		16.00	0.64	228.52	F	OK
C14	XVB				2.5 mm²	Concealed in flexible conduit 7.0 m Concealed in flexible conduit 6.0 m	10.9	Bedroo…	Double…		16.00	1.01	227.67	G	OK
C15	XVB				2.5 mm²	Concealed in flexible conduit 5.0 m Concealed in flexible conduit 6.0 m	9.0	Bedroo…	Double…		16.00	0.84	228.08	G	OK
C16	XVB				2.5 mm²	Concealed in flexible conduit 8.0 m Concealed in flexible conduit 3.5 m	9.5	Bedroo…	Socket…		16.00	0.88	227.98	G	OK
C17	XVB				2.5 mm²	Concealed in flexible conduit 4.0 m Concealed in flexible conduit 5.5 m	7.6	Bedroo…	Socket…		16.00	0.70	228.39	G	OK
C18	XVB				2.5 mm²	Concealed in flexible conduit 6.0 m Concealed in flexible conduit 1.5 m	5.6	Bedroo…	Socket…		16.00	0.52	228.81	G	OK
C19	XVB				2.5 mm²	Concealed in flexible conduit 2.0 m Concealed in flexible conduit 2.5 m	2.2	Kitchen…	Double…		16.00	0.20	229.53	H	OK

No.	Cable type	Connection type	Device	Socket	Conductor size	Installation method	Length (m)	From	To	Terminal	Current (A)	Delta U (%)	End voltage (V)	Circuit	Status
C20	XVB				2.5 mm²	Concealed in flexible conduit 2.0 m Concealed in flexible conduit 3.5 m	3.6	Kitchen…	Double…		16.00	0.33	229.24	H	OK
C21	XVB				2.5 mm²	Concealed in flexible conduit 2.0 m Concealed in flexible conduit 5.5 m	5.2	Kitchen…	Double…		16.00	0.48	228.89	H	OK
C22	XVB				2.5 mm²	Concealed in flexible conduit 4.0 m Concealed in flexible conduit 2.0 m	3.9	Kitchen…	Fridge s…		16.00	0.36	229.16	H	OK
C23	XVB				2.5 mm²	Concealed in flexible conduit 2.0 m Concealed in flexible conduit 2.0 m	2.4	Dishwas…	Dishwas…		16.00	0.22	229.49	I	OK
C24	XVB				1.5 mm²	Concealed in flexible conduit 4.5 m Concealed in flexible conduit 3.0 m	6.1	Lighting…	Switch…		12.80	0.75	228.27	K	OK
C25	XVB				1.5 mm²	Concealed in flexible conduit 6.5 m Concealed in flexible conduit 4.5 m	11.1	Lighting…	Ceiling li…		12.80	1.37	226.84	K	OK
C26	XVB				1.5 mm²	Concealed in flexible conduit 2.5 m Concealed in flexible conduit 3.0 m	4.1	Lighting…	Switch…		12.80	0.50	228.85	K	OK
C27	XVB				1.5 mm²	Concealed in flexible conduit 3.0 m Concealed in flexible conduit 5.0 m	8.0	Lighting…	Ceiling li…		12.80	0.99	227.72	K	OK
C28	XVB				2.5 mm²	Concealed in flexible conduit 4.0 m Concealed in flexible conduit 3.5 m	5.7	Bathroo…	Socket…		16.00	0.53	228.79	L	OK
C29	XVB				2.5 mm²	Concealed in flexible conduit 2.0 m Concealed in flexible conduit 3.0 m	3.4	Washin…	Washin…		16.00	0.31	229.29	M	OK

Delta U limits for DC extra-low-voltage/SELV circuits are best-practice recommendations (3% lighting / 5% other), not an AREI requirement.

HV — Distribution board

18 TE · 1 TE = 17,5 mm

