SBEM Specification Information

Scottish Building Regulations Section 6 Guidance Carbon Dioxide Emissions, U-Values, Air Permeability, and HVAC

Project name

Unit 1 Site B

Date: Wed Jan 14 11:14:35 2009

Administrative information

Building details

Address: Unit 1, Site B, Kintore Business Park, Carnhi

Certification tool

Calculation engine: SBEM

Calculation engine version: v3.2.b

Interface to calculation engine: DDB PartL

Interface to calculation engine version: v24.21

Compliance check version: v3.2.b

Occupier details

Name: Kintore Service Sites Ltd

Telephone number: 01467 632670

Address: Blaeriach, Clovenstone, Kintore, Information no

Agent details

Name: Jon Ponting

Telephone number: 08458 386 387

Address: Energist House, Kemble Enterprise Park-, Kemble

1- Predicted CO2 emission from proposed building

1.1	Calculated CO2 emission rate from notional building	51.9 KgCO2/m2.annum
1.2	Improvement factor	0.15
1.3	LZC benchmark	0.1
1.4	Target CO2 Emission Rate (TER)	39.6 KgCO2/m2.annum
1.5	Building CO2 Emission Rate (BER)	34.4 KgCO2/m2.annum
1.6	Are emissions from building less than or equal to the target?	BER =< TER YES

2- The performance of the building fabric and the building services systems

2.1 How do the U-values compare with Section 6 guidance?

The building follows guidance in Scottish Building Regulations

Element	Ua-Limit	Ua-Calc	Ui-Limit	Ui-Calc	Surface where this maximum value occurs*
Wall	0.3***	0.22	0.7	0.22	1.1 Wall 1
Floor	0.25	0.15	0.7	0.15	G1 Exposed Floor 1
Roof	0.25	0.22	0.35	0.22	G8 Exposed Roof 2
Windows**, roof windows, and rooflights	2.2	1.8	3.3	1.8	G1 Rooflight 1
Personnel doors	2.2	2.2	3.3	2.2	G1 Wall 2 (Personnel Door)
Vehicle access & similar large doors	1.5	1.5	1.5	1.5	G1 Wall 7 (Vehicle Access Door)

U_{a-Limit} = Limiting area-weighted average U-values [W/(m2K)]

U_{a-Calc} = Calculated area-weighted average U-values [W/(m2K)]

U_{i-Limit} = Limiting individual element U-values [W/(m2K)]

Ui-Calc = Calculated individual element U-values [W/(m2K)]

2.2 Air permeability

Air Permeability	This building's value
m3/(h.m2) at 50 Pa	10

^{*} There might be more than one surface exceeding the limiting standards.

^{**} Display windows and similar glazing are not required to meet the standard given in this table.

^{*** 0.35} for modular and portable buildings.

2.3 Are all building services standards acceptable?

2.3a-1 HVAC 2

HVAC system standard is acceptable

Efficiency check	Limiting heat source seasonal efficiency	This building
Heat source efficiency	0.84	0.96
	cy for a single or a multiple boiler system. imiting efficiency for any individual boiler is 0.80.	

2.3a-2 HVAC 1

HVAC system standard is acceptable

Efficiency check	Limiting heat source seasonal efficiency	This building
Heat source efficiency	0.84	0.96
	ncy for a single or a multiple boiler system. imiting efficiency for any individual boiler is 0.80.	

2.3b-1 Default DHW

HWS standard is acceptable

Efficiency check	Limiting HWS heat source seasonal efficiency	This building
HWS heat source efficiency	Limiting heat source efficiency not specified	1

Technical Data Sheet (Actual vs. Notional Building)

Building Global Parameters

Notional	1178	3294	GLA	10	1732.58	0.53	4.26
Actual	1178	3294	GLA	10	953.14	0.29	27.64
	Area (m2)	External area (m2)	Weather	Infiltration	W/K	W/m2K	Alpha

Building Use

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l			5
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l			
l		9	ì
l		9	0
		3	١

0.85

Primary school

Secondary school

Further education universities

Primary health care buildings

Nursing residential homes and hostels

Hospital

Hotel

Restaurant/public house

Sports centre/leisure centre

Sports ground arena

Retail

Warehouse and storage

Theatres/cinemas/music halls and auditoria

Social clubs

Community/day centre

Libraries/museums/galleries

Prisons

Emergency services

Crown and county courts

Airport terminals Bus station/train station/seaport terminal

100 Workshops/maintenance depot

Telephone exchanges Industrial process building

Launderette

Dwelling

Retail warehouses

Miscellaneous 24hr activities

HVAC Systems Performance

S	System Type Heat dem Cool dem Heat	Heat dem	Cool dem	Heat	Cool	Aux	Heat	Cool	Heat G	Cool G
Ś	adi i i ba	MJ/m2	MJ/m2	kWh/m2	kWh/m2	MJ/m2 MJ/m2 kWh/m2 kWh/m2 SSEEF	SSEEF	SSEER SEFF	SEFF	SEER
[ST	[ST] Central heating using water: floor heating, [HS] LTHW boiler, [FT] Oil	ating using	water: floc	or heating, [HS] LTHW	boiler, [FT]	Oil			
	Actual 189.7		38.1	58.4	0	2.6	6.0	0	96.0	0
	Notional 254.1	254.1	8.66	2.96	0	1.7	0.73	0		-
[ST	[ST] Central heating using water: floor heating, [HS] LTHW boiler, [FT] Oil	ating using	water: floc	or heating, [HS] LTHW	boiler, [FT]	Oil			
	Actual	Actual 357.6 161.8 110.1	161.8	110.1	0	3.6	6.0	0	96.0	0
	Notional 497.9		195.2	188	0	2.1	0.73	0		-

SBEM Data Reflection Report - Actual building Wed Jan 14 11:14:12 2009

Project Details	Parameter Value	Comments / Warnings
Name of the project:	"Unit 1 Site B"	•
Building type:	Workshops/maintenance depot	
Building address:	"Unit 1"	
:	"Site B"	
:	"Kintore Business Park"	
:	""	
City:	"Carnhill"	
Postcode:	"AB51 0YQ"	
Location description:	1111	
Building type:	Workshops/maintenance depot	
Weather (location):	GLA	
Rating with improvements [kgCO2/m2]:		
Building area [m2]:	1177.546	
Electric power factor:	>0.95	
Correction for lighting systems due to voltage reduction management scheme:	0	
Building (clockwise) rotation [degrees]:	0	
Notional Building fuel:	OIL	
CO2 Emission Factor for District Heating [kgCO2/kWh]:	0.293	

Occupier Details	Parameter Value	Comments / Warnings
Name:	"Kintore Service Sites Ltd"	
Telephone number:	"01467 632670"	
Address:	"Blaeriach, Clovenstone"	
City:	"Kintore"	
Postcode:	"Information not provided by the user"	

Qualified/Accredited Person / Agent Details	Parameter Value	Comments / Warnings
Name:	"Jon Ponting"	
Telephone number:	"08458 386 387"	
Address:	"Energist House, Kemble Enterprise Park-"	
City:	"Kemble"	
Postcode:	"GL7 6BQ"	
Registration/Membership number:	"000148"	
Accreditation scheme / Protocol organisation:	"Stroma"	
Qualifications:	NOS3	
Employer/Trading name:	"Energist Testing UK"	
Employer/Trading address:	"Kemble Enterprise Park, GL7 6BQ"	
Insurance company:	""	
Insurance policy number:	1111	
Insurance policy start date:	1111	
Insurance policy end date:	""	
Insurance policy cover limit [f]:	IIII	

Insurance policy cover limit [£]:

SBEM Information	Parameter Value	Comments / Warnings
Calculation engine (version):	v3.2.b	
Interface to SBEM:	"DDB PartL"	
Interface to SBEM (version):	"v24.21"	

Object Summary	Total Number in Project	Total Related Area [m2]	Comments / Warnings
Envelope/Door Constructions:	11	N/A	
Window/Rooflight Constructions:	2	N/A	
HW Systems:	1	N/A	
SE Systems:	0	0	
PV Systems:	0	0	
Wind Generators:	0	N/A	
CHP Generators:	0	N/A	
HVAC Systems:	2	N/A	
Zones:	9	1177.6	_
Envelopes:	90	4807.2	
Doors:	6	110.9	•
Windows/Rooflights:	20	86.1	_
Additional Thermal Bridges:	0	N/A	

>	1/11 Envelope/Door Construction	Parameter Value	Comments / Warnings
	Name:	Containing construction	
	U-value [W/m2K]:	0.1	
	Cm [kJ/m2K]:	51	
	Contains metal cladding:	NO	

>	2/11 Envelope/Door Construction	Parameter Value	Comments / Warnings
	Name:	EXPWALL 1	
	U-value [W/m2K]:	0.22	
	Cm [kJ/m2K]:	15.0984	
	Contains metal cladding:	NO	

>	3/11 Envelope/Door Construction	Parameter Value	Comments / Warnings
	Name:	EXPROOF 1	
	U-value [W/m2K]:	0.22	
	Cm [kJ/m2K]:	12.8075	
	Contains metal cladding:	NO	

>	4/11 Envelope/Door Construction	Parameter Value	Comments / Warnings
	Name:	INTFLOOR 1	
	U-value [W/m2K]:	1.682	
	Cm [kJ/m2K]:	30.24	
	Contains metal cladding:	NO	

>	5/11 Envelope/Door Construction	Parameter Value	Comments / Warnings
	Name:	PARTITION 1	
	U-value [W/m2K]:	0.607	
	Cm [kJ/m2K]:	20.376	
	Contains metal cladding:	NO	

>	6/11 Envelope/Door Construction	Parameter Value	Comments / Warnings
		E)/D)A/ALL 0	

Name: EXPWALL 2

				_
U-value [W/m2K]: 0.22 Cm [kJ/m2K]: 11.9456	3			-
Contains metal cladding: YES	<u> </u>			-
Contains metal clauding. TES				
7/11 Envelope/Door Construction Parame	eter Value	Comments /	Warnings	.
Name: DOOR	1			_
U-value [W/m2K]: 2.2				_
Cm [kJ/m2K]: 9.75				_
Contains metal cladding: NO				-
8/11 Envelope/Door Construction Parame	eter Value	Comments /	Marnings	-
Name: DOOR		Comments /	vvarriings	-
U-value [W/m2K]: 1.5				-
				-
Cm [kJ/m2K]: 9.75				-
Contains metal cladding: NO				
9/11 Envelope/Door Construction Parame	eter Value	Comments /	Warnings	- -
Name: EXPFLO	00R 1			-
U-value [W/m2K]: 0.15				-
Cm [kJ/m2K]: 30.24				-
Contains metal cladding: NO				
10/11 Envelope/Door Construction Param	neter Value	Comments	/ Warnings	<u></u>
	/ALL 3		<u> </u>	<u> </u>
U-value [W/m2K]: 0.216				
Cm [kJ/m2K]: 17.47				
Contains metal cladding: NO				_
11/11 Envelope/Door Construction Param	neter Value	Comments	/ Warnings	_
•	neter Value	Comments	/ Warnings	<u>.</u>
Name: INTCE		Comments	/ Warnings	<u>-</u> <u>-</u>
Name: INTCE U-value [W/m2K]: 2.225	EIL 1	Comments	/ Warnings	<u>-</u>
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888	EIL 1	Comments	/ Warnings	<u>-</u> -
Name: INTCE U-value [W/m2K]: 2.225	EIL 1	Comments	/ Warnings	
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888	EIL 1	Comments	· с	omments /
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Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction	B Name	Parameter Value e: RLIGHT 1	· с	omments /
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinate	Name	Parametel Value e: RLIGHT 1]: 1.8	· с	omments /
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinate Total solar energy transmittance for norm	Name tion [W/m2K] nal incidence	Parameter Value e: RLIGHT 1]: 1.8 e: 0.826	· с	omments /
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinat Total solar energy transmittance for norm Light transmissivity for norm	Name tion [W/m2K] nal incidence	Parameter Value e: RLIGHT 1]: 1.8 e: 0.826 e: 0.81	· с	omments /
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinate Total solar energy transmittance for norm	Name tion [W/m2K] nal incidence nal incidence r all angles c	Parameter Value 2: RLIGHT 1 1: 1.8 2: 0.826 2: 0.81 3f 0.743	· с	omments /
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinat Total solar energy transmittance for norm Light transmissivity for norm Total solar energy transmittance for	Name tion [W/m2K] nal incidence nal incidence r all angles c incidence	Parameter Value 2: RLIGHT 1 1: 1.8 2: 0.826 2: 0.81 3: 0.743	· с	omments /
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinat Total solar energy transmittance for norm Light transmissivity for norm	Name tion [W/m2K] nal incidence nal incidence r all angles c incidence	Parameter Value :: RLIGHT 1]: 1.8 :: 0.826 :: 0.81 of 0.743	· с	omments /
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Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinated and the construction of the constru	Name tion [W/m2K] nal incidence nal incidence r all angles c incidence	Parameter Value 9: RLIGHT 1 9: 1.8 9: 0.826 9: 0.743 9: 0.729 Parameter Value	· C	omments / /arnings
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinat Total solar energy transmittance for norm Light transmissivity for norm Total solar energy transmittance for Light transmissivity for all angles 2/2 Window/Rooflight Construction	Name tion [W/m2K] nal incidence nal incidence r all angles of incidence of incidence	Parameter Value E: RLIGHT 1 [: 1.8 E: 0.826 E: 0.743 E: 0.729 Parameter Value E: WINDOW	· C	omments / /arnings
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinate Total solar energy transmittance for norm Light transmissivity for norm Total solar energy transmittance for Light transmissivity for all angles 2/2 Window/Rooflight Construction U-value for vertical inclinate	Name tion [W/m2K] nal incidence nal incidence incidence of incidence of incidence	Parameter Value 2: RLIGHT 1 1: 1.8 2: 0.826 2: 0.81 3: 0.743 3: 2: 0.729 Parameter Value 2: WINDOW 1: 1.8	· C	omments / /arnings
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinat Total solar energy transmittance for norm Light transmissivity for norm Total solar energy transmittance for Light transmissivity for all angles 2/2 Window/Rooflight Construction	Name tion [W/m2K] nal incidence nal incidence incidence of incidence of incidence	Parameter Value 2: RLIGHT 1 1: 1.8 2: 0.826 2: 0.81 3: 0.743 3: 2: 0.729 Parameter Value 2: WINDOW 1: 1.8	· C	omments / /arnings
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinate Total solar energy transmittance for norm Light transmissivity for norm Total solar energy transmittance for Light transmissivity for all angles 2/2 Window/Rooflight Construction U-value for vertical inclinate Total solar energy transmittance for norm Light transmissivity for norm Light transmissivity for norm	Name tion [W/m2K] nal incidence r all angles of incidence of incidence Name tion [W/m2K] nal incidence nal incidence	Parameter Value E: RLIGHT 1 1: 1.8 E: 0.826 E: 0.743 E: 0.729 Parameter Value E: WINDOW 1: 1.8 E: 0.679 E: 0.66	· C	omments / /arnings
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinat Total solar energy transmittance for norm Light transmissivity for norm Total solar energy transmittance for Light transmissivity for all angles 2/2 Window/Rooflight Construction U-value for vertical inclinat Total solar energy transmittance for norm	Name tion [W/m2K] nal incidence r all angles of incidence of incidence Name tion [W/m2K] nal incidence nal incidence r all angles of	Parameter Value E: RLIGHT 1 1: 1.8 E: 0.826 E: 0.743 E: 0.729 Parameter Value E: WINDOW 1: 1.8 E: 0.679 E: 0.66 of 0.611	· C	omments / /arnings
Name: INTCE U-value [W/m2K]: 2.225 Cm [kJ/m2K]: 46.888 Contains metal cladding: NO 1/2 Window/Rooflight Construction U-value for vertical inclinate Total solar energy transmittance for norm Light transmissivity for norm Total solar energy transmittance for Light transmissivity for all angles 2/2 Window/Rooflight Construction U-value for vertical inclinate Total solar energy transmittance for norm Light transmissivity for norm Light transmissivity for norm	Name tion [W/m2K] nal incidence r all angles of incidence of incidence tion [W/m2K] nal incidence r all angles of incidence r all angles of incidence r all angles of incidence	Parameter Value 2: RLIGHT 1 1: 1.8 2: 0.826 2: 0.743 2: 0.729 Parameter Value 2: WINDOW 1: 1.8 2: 0.679 2: 0.66 3: 0.611 3: 0.611	· C	omments / /arnings

Generator Type:	Instantaneous hot water only
Fuel type:	Grid Supplied Electricity
Effective heat generating seasonal efficiency:	1
Storage system:	NO

fective heat generating seasonal efficier Storage syst			
Storage syst	GIII. INO		
2 HVAC System	Parameter Value		Comments / Warnings
eneral	10400		
Name:	HVAC 2		
Type:	Central heating usir heating	ng water: floor	
	neating		
eating			
Heat source:	LTHW boiler		
Fuel type:	Oil		
Effective heat generating seasonal	0.96		
efficiency:	NO		
System also uses CHP:	NO		
entilation			
Heat recovery system:	No heat recovery		
Heat recovery efficiency:	0		
ystem Controls			
Central time control:	YES		
Optimum stop/start control:	NO		
Local time control:	NO		
Local temperature control:	YES		
Weather compensation control:	NO		
1/2 Zone		Parameter	Comments
		Value	Warnings
General			
	Name:	1.1	
	Multiplier:	1 Warahayaa	
	Activity:	Warehouse storage	
	Area [m2]:	258.202	
	Height [m]:	5.78	
Air permeabilit	ty at 50pa [m3/hm2]:	10	
P	, , ,1.		
HVAC and HWS			
		"Default DLIVA!"	
	HWS Generator:	"Default DHW"	
	HWS Generator: Deadleg length [m]:	0	
Ventilation and Exhaust			
Ventilation and Exhaust	Deadleg length [m]:	0	
Zo	Deadleg length [m]:	0 Natural Supply	
Z	Deadleg length [m]: onal ventilation type: Mechanical exhaust:	0 Natural Supply NO	
Z	Deadleg length [m]: onal ventilation type: Mechanical exhaust: Destratification fans:	Natural Supply NO NO	
Z	Deadleg length [m]: onal ventilation type: Mechanical exhaust: Destratification fans:	0 Natural Supply NO	
Activity requires high pressur Lighting (General)	Deadleg length [m]: onal ventilation type: Mechanical exhaust: Destratification fans: e drop air treatment:	Natural Supply NO NO NO	
Activity requires high pressur Lighting (General)	Deadleg length [m]: onal ventilation type: Mechanical exhaust: Destratification fans: e drop air treatment: Lighting information:	Natural Supply NO NO	

Lamp type: I-T05-F-T-H

	E	Efficient lamps for display lighting:	NO
<u>.i</u>	ghting (Controls)		
		Light controls:	MANUAL
		Automatic daylight zoning:	YES
		Occupancy sensing:	NONE
	ı	ime switching for display lighting:	NONE
ر دا	lobal Bei Values (W/m	K] for Junctions Involving	
	etal Cladding	K] for Junctions involving	
	otal Gladallig	Roof-Wall:	0.6
		Wall-Ground floor:	1.15
		Wall-Wall (corner):	0.25
		Wall-Floor (not ground floor):	0.07
		Lintel above window or door:	1.27
		Sill below window:	1.27
		Jamb at window or door:	1.27
		K] for Junctions Not Involving	
Νİ	etal Cladding	Df/M II	0.40
_		Roof-Wall:	0.12 0.16
		Wall-Ground floor:	
		Wall-Wall (corner): Wall-Floor (not ground floor):	0.09
_		Lintel above window or door:	0.07
_		Sill below window:	0.04
_		Jamb at window or door:	0.04
		carris at wiridow of door.	5.00
>	1/7 Envelope	Parameter Value Comments	/ Warnings
	Name:	1.1 Wall 1	
	Multiplier:	1	
	Type of envelope:	Wall	
	Connects space to:	Exterior	
	Construction:	"EXPWALL 1"	
	Envelope area [m2]:	57.25237	
	Orientation:	North	
>	2/7 Envelope	Parameter Value Comments	/ Warnings
	Name:	1.1 Wall 2	
	Multiplier:	1	
	Type of envelope:	Wall	
	Connects space to:	Exterior	
	Construction:	"EXPWALL 1"	
	Envelope area [m2]:	58.2399	
	Orientation:	South	
>	3/7 Envelope	Parameter Value Comments	/ Warnings
	Name:	1.1 Wall 3	
	Multiplier:	1	
	Type of envelope:	Wall	
	Connects space to:	Exterior	
	Construction:	"EXPWALL 1"	
	Envelope area [m2]:	125.7381	
	Orientation:	West	

≥ ≥ > 4/7 Envelope

Parameter Value

Comments / Warnings

		Namai	1.1 Eypood Doof 1			
	٠.	Name:	1.1 Exposed Roof 1			
•	٠.	Multiplier: Type of envelope:	1 Roof			
	٠.	Flat roof:	NO			
	٠.					
•	٠.	Connects space to:	Exterior "EXPROOF 4"			
	٠.	Construction:	"EXPROOF 1"			
	٠.	Envelope area [m2]: Orientation:	129.825 South			
•	•	Orientation.	South			
<u>></u>	>	5/7 Envelope	Parameter Value Comn	nent	s / Warnings	
		Name:	1.1 Exposed Roof 2			
	٠.	Multiplier:	1			
		Type of envelope:	Roof			
		Flat roof:	NO			
		Connects space to:	Exterior			
		Construction:	"EXPROOF 1"			
	. '	Envelope area [m2]:	132.363			
		Orientation:	North			
<u>></u>	> .	6/7 Envelope	Parameter Value	C	omments / Warning	<u></u>
_		Name:	1.1 Internal Floor 1		Jionico / Tranning	_
	. •	Multiplier:	1			
	. •	Type of envelope:	Floor or Ceiling			
		Connects space to:	Conditioned adjoining space			
	. •	Construction:	"INTFLOOR 1"			
	. •	Envelope area [m2]:	258.202			
		Orientation:	Horizontal			
>	> .	7/7 Envelope	Parameter Value	Cr	omments / Warning	_
<u> </u>	٠.	Name:	1.1 Partition 1		Jillinents / Warning	<u> </u>
	•	Multiplier:	1			
	٠.	Type of envelope:	Wall			_
•	•	Connects space to:	Conditioned adjoining space			_
•	•	Construction:	"PARTITION 1"			_
•	•	Envelope area [m2]:	125.8034			_
	٠.	Envolope area [me].	120.0001			
		Orientation:	East			
		Orientation:	East		Devenueten	Commental
· >	2/2		East		Parameter Value	Comments / Warnings
l		Orientation: 2 Zone	East			Comments / Warnings
l		Orientation:		ne.	Value	
l		Orientation: 2 Zone	Nar		Value G1	
l		Orientation: 2 Zone	Nar Multipl	ier:	G1	
l		Orientation: 2 Zone	Nar	ier:	G1 1 Warehouse	
_		Orientation: 2 Zone	Nar Multipl Activ	ier: ⁄ity:	G1	
l		Orientation: 2 Zone	Nar Multipl Activ Area [n	ier: vity: n2]:	G1 1 Warehouse storage	
_		Orientation: 2 Zone eneral	Nar Multipl Activ	ier: vity: n2]: m]:	G1 1 Warehouse storage 653.858	
_	Ge	Orientation: 2 Zone eneral	Nar Multipl Activ Area [n Height [ier: vity: n2]: m]:	G1 1 Warehouse storage 653.858 8.17	
>	Ge	Orientation: 2 Zone eneral	Nar Multipl Activ Area [n Height [ir permeability at 50pa [m3/hn	ier: vity: n2]: m]: n2]:	G1 1 Warehouse storage 653.858 8.17	
_	Ge	Orientation: 2 Zone eneral	Nar Multipl Activ Area [n Height] ir permeability at 50pa [m3/hn	ier: vity: n2]: m]: n2]:	G1 1 Warehouse storage 653.858 8.17 10	
_	Ge	Orientation: 2 Zone eneral	Nar Multipl Activ Area [n Height [ir permeability at 50pa [m3/hn	ier: vity: n2]: m]: n2]:	G1 1 Warehouse storage 653.858 8.17	
l	Ge	Orientation: 2 Zone eneral	Nar Multipl Activ Area [n Height [ir permeability at 50pa [m3/hn HWS Genera Deadleg length [ier: vity: n2]: m]: n2]: tor:	G1 1 Warehouse storage 653.858 8.17 10 "Default DHW" 0	
_	Ge	Orientation: 2 Zone eneral A /AC and HWS	Nar Multipl Activ Area [n Height [ir permeability at 50pa [m3/hn HWS Genera Deadleg length [ier: vity: n2]: m]: n2]: tor: m]:	G1 1 Warehouse storage 653.858 8.17 10	

		Destratific	cation fans:	IXIC)	
	Activity requires	high pressure drop air		NO NO	
		J.: p: 1000.0 010p 011			
Lig	ghting (General)				
		Lighting ir	nformation:	UNKNOWN	
			Lamp type:	I-T05-F-T-H	
	E	fficient lamps for displ	ay lighting:	NO	
<u>Liç</u>	ghting (Controls)	1.1		B 4 A B 11 1 A 1	
			ht controls:	MANUAL	
		Automatic daylig		YES NONE	
		ime switching for displ	cy sensing:	NONE	
	'	ine switching for displa	ay lightilig.	NONE	
GI	obal Psi Values [W/m	K1 for Junctions Invo	lvina		
	etal Cladding	A TO CAMORONO MAC	aving		
			Roof-Wall:	0.6	
		Wall-Gr	ound floor:	1.15	
			all (corner):	0.25	
		Wall-Floor (not gro		0.07	
		Lintel above windo		1.27	
			w window:	1.27	
		Jamb at windo	ow or door:	1.27	
				0.40	
			Roof-Wall:	0.12	
		Wall-Gr	ound floor:	0.16	
		Wall-Gr Wall-Wa	round floor: all (corner):	0.16 0.09	
		Wall-Gr	ound floor: all (corner): ound floor):	0.16	
		Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo	ound floor: all (corner): ound floor):	0.16 0.09 0.07	
		Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo	round floor: all (corner): bund floor): bw or door: bw window:	0.16 0.09 0.07 0.3	
		Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
>	1/23 Envelope	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
> .	Name:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value C G1 Wall 1	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
>	Name: Multiplier:	Wall-Gr Wall-Wall-Wall-Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value C G1 Wall 1	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
>	Name: Multiplier: Type of envelope:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value C G1 Wall 1	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
>	Name: Multiplier: Type of envelope: Connects space to:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
> · · · · · · · · · · · · · · · · · · ·	Name: Multiplier: Type of envelope: Connects space to: Construction:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2"	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
>	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
>	Name: Multiplier: Type of envelope: Connects space to: Construction:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2"	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North	ound floor: all (corner): bund floor): bw or door: bw window: bw or door: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
>	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value C	ound floor: all (corner): bund floor): bw or door: bw window: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2	ound floor: all (corner): bund floor): bw or door: bw window: bw or door: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1	ound floor: all (corner): bund floor): bw or door: bw window: bw or door: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier: Type of envelope:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1 Wall	ound floor: all (corner): bund floor): bw or door: bw window: bw or door: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier: Type of envelope: Connects space to:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1 Wall Exterior	ound floor: all (corner): bund floor): bw or door: bw window: bw or door: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1 Wall Exterior "EXPWALL 2" The state of the stat	ound floor: all (corner): bund floor): bw or door: bw window: bw or door: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1 Wall Exterior "EXPWALL 2" 6.77236	ound floor: all (corner): bund floor): bw or door: bw window: bw or door: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1 Wall Exterior "EXPWALL 2" The state of the stat	ound floor: all (corner): bund floor): bw or door: bw window: bw or door: bw or door:	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1 Wall Exterior "EXPWALL 2" 6.77236	cound floor: all (corner): bund floor): bund floor): bw or door: bw window: bw or door: Comments /	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
· · · · · · · · · · · · · · · · · · ·	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1 Wall Exterior "EXPWALL 2" 6.77236 North	cound floor: all (corner): bund floor): bund floor): bw or door: bw window: bw or door: Comments /	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	
· · · · · · · · · · · · · · · · · · ·	Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 2/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	Wall-Gr Wall-Wa Wall-Floor (not gro Lintel above windo Sill belo Jamb at windo Parameter Value G1 Wall 1 1 Wall Exterior "EXPWALL 2" 208.1662 North Parameter Value G1 Wall 2 1 Wall Exterior "EXPWALL 2" 6.77236 North	cound floor: all (corner): bund floor): bund floor): bw or door: bw window: bw or door: Comments /	0.16 0.09 0.07 0.3 0.04 0.05 Warnings	

			. Construction: "DOC	OR 1"		
			. Area [m2]: 1.969			
>	>	>	3/23 Envelope Pa	arameter Value	Comments / Warnings	
_	_			1 Wall 4		
			Multiplier: 1			
			Type of envelope: W	all		
				cterior		
			·	XPWALL 2"		
				27.9318		
				ast		
>	>	>	4/23 Envelope Pa	arameter Value	Comments / Warnings	
_	_		-	1 Wall 7		
·			Multiplier: 1			
·			Type of envelope: W	all		
				cterior		
•	•	•		XPWALL 2"		
•	•	•		.58665	-	
•	•	•		ast		
•	•	•	onomation. Et			
>	>	>	> 1/1 Door Parai	meter Value	Comments /	Warnings
_	_	_		/all 7 (Vehicle Acc		- ruiiiigo
			. Multiplier: 1			
•	•	•		ele Access Doors		
•	•	•	. Construction: "DOC			
•	•	•	. Area [m2]: 34.97			
•	•	•	. Alca [III2]. 04.01	7		
>	>	>	5/23 Envelope Pa	arameter Value	Comments / Warnings	
_	_			1 Wall 9	Commonto, Harmigo	
•	•	•		1 VVali 0		
•			Millitiplier 1			
	•		Multiplier: 1	all		
			Type of envelope: W			
	· ·		Type of envelope: W Connects space to: Ex	kterior		
			Type of envelope: W Connects space to: Ex Construction: "E	kterior XPWALL 2"		
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12	cterior EXPWALL 2" 24.663		
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12	kterior XPWALL 2"		
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc	xterior XPWALL 2" 24.663 outh	Comments / Warnings	
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa	exterior EXPWALL 2" 24.663 Bouth Example 1	Comments / Warnings	
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G	xterior XPWALL 2" 24.663 outh	Comments / Warnings	
	· · · · · · · · · · · · · · · · · · ·		Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G Multiplier: 1	xterior XPWALL 2" 24.663 buth arameter Value 1 Wall 12	Comments / Warnings	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G Multiplier: 1 Type of envelope: W	xterior XPWALL 2" 24.663 buth arameter Value 1 Wall 12	Comments / Warnings	
	· · · · · · · · · · · · · · · · · · ·		Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex	cterior CXPWALL 2" 24.663 Duth CARRETT Value 1 Wall 12 Call Cterior	Comments / Warnings	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E	exterior EXPWALL 2" 24.663 Bouth Example of Value 1 Wall 12 Example of Value 2 State of Value 2 State of Value 3 State of Value 4 State of Value 4 State of Value 5 State of Value 6 State of Value 7 State of Value 7 State of Value 8 State of Val	Comments / Warnings	
	· · · · · · · · · · · · · · · · · · ·		Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42	ckterior CXPWALL 2" 24.663 Duth Arameter Value 1 Wall 12 all Ckterior CXPWALL 2" 2.42784	Comments / Warnings	
	· · · · · · · · · · · · · · · · · · ·		Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42	exterior EXPWALL 2" 24.663 Bouth Example of Value 1 Wall 12 Example of Value 2 State of Value 2 State of Value 3 State of Value 4 State of Value 4 State of Value 5 State of Value 6 State of Value 7 State of Value 7 State of Value 8 State of Val	Comments / Warnings	
· · · · · ≥ · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42 Orientation: Sc	cterior CXPWALL 2" 24.663 Duth CARRETT Value 1 Wall 12 CALL 2" CALL		
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: Gr Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42 Orientation: Sc > 1/1 Door Paral	cterior CXPWALL 2" 24.663 Duth CARRETT Value 1 Wall 12 CARRETT VALUE 1 WALL 2" 2.42784 Duth CARRETT VALUE	Comments	/ Warnings
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42 Orientation: Sc > 1/1 Door Parameters	cterior CXPWALL 2" 24.663 Duth CARRETT Value 1 Wall 12 CALL 2" CALL	Comments	/ Warnings
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Pa Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42 Orientation: Sc > 1/1 Door Param Name: G1 W Multiplier: 1	Acterior ACXPWALL 2" Acterior Acterior Acterior Acterior Acterior ACXPWALL 2" Acterior ACXPWALL 2" Acterior Act	Comments	/ Warnings
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42 Orientation: Sc > 1/1 Door Paramana Multiplier: 1 . Name: G1 W . Multiplier: 1 . Type: Vehice	Atterior EXPWALL 2" 24.663 Duth Arameter Value 1 Wall 12 all Atterior EXPWALL 2" 2.42784 Duth The meter Value Vall 12 (Vehicle Active Access Doors	Comments	/ Warnings
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42 Orientation: Sc > 1/1 Door Paraman Scale	cterior CXPWALL 2" 24.663 Duth CARRET Value 1 Wall 12 CALCAR CONTROL 2" CALCAR CON	Comments	/ Warnings
			Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: Sc 6/23 Envelope Name: G Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42 Orientation: Sc > 1/1 Door Paramana Multiplier: 1 . Name: G1 W . Multiplier: 1 . Type: Vehice	cterior CXPWALL 2" 24.663 Duth CARRET Value 1 Wall 12 CALCAR CONTROL 2" CALCAR CON	Comments	/ Warnings
		· · · · · · · · · · · · · · · · · · ·	Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 12 Orientation: So 6/23 Envelope Pa Name: Gr Multiplier: 1 Type of envelope: W Connects space to: Ex Construction: "E Envelope area [m2]: 42 Orientation: So > 1/1 Door Paral Name: G1 W Multiplier: 1 Type: Vehic Construction: "DOO Area [m2]: 34.96	cterior CXPWALL 2" 24.663 Duth CARRET Value 1 Wall 12 CALCAR CONTROL 2" CALCAR CON	Comments	/ Warnings

			Multiplion	4
	٠	٠	Multiplier:	1
		•	Type of envelope:	Wall
	٠	٠	Connects space to:	Exterior
	٠	٠	Construction:	"EXPWALL 2"
		•	Envelope area [m2]:	7.28
•		•	Orientation:	South
>	>	>	> 1/1 Door Pa	arameter Value Comments / Warnings
-	-	_		1 Wall 15 (Personnel Door)
			. Multiplier: 1	,
				ersonnel Doors
				000R 1"
			. Area [m2]: 2.	
>	>	>	8/23 Envelope	Parameter Value Comments / Warnings
_	_		Name:	G1 Wall 17
			Multiplier:	1
			Type of envelope:	Wall
			Connects space to:	Exterior
			Construction:	"EXPWALL 2"
			Envelope area [m2]:	42.43512
	Ċ		Orientation:	South
	•	•		
>	>	>	> 1/1 Door Pa	arameter Value Comments / Warnings
_	_	_		1 Wall 17 (Vehicle Access Door)
			. Multiplier: 1	
				ehicle Access Doors
			. Construction: "D	000R 2"
				0 <u>00R 2"</u> I.974
>	>	>	. Area [m2]: 34	1.974
<u>></u>	<u>></u>	· · >		1.974
>	>	>	9/23 Envelope	Parameter Value Comments / Warnings
>			9/23 Envelope Name:	Parameter Value Comments / Warnings G1 Wall 19
	>	· · · · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall
			9/23 Envelope Name: Multiplier:	Parameter Value Comments / Warnings G1 Wall 19 1
· · · > · · · · · · · · · · · · · · · ·			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope: Connects space to:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2"
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408
· · > · · · · · >	^	· · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408
>			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West
			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings
			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1
>			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1
			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof
>			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO
			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior
			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1"
			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 297.191
			9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 297.191
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 297.191 South
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 297.191 South Parameter Value Comments / Warnings
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 297.191 South Parameter Value Comments / Warnings G1 Exposed Roof 2
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 11/23 Envelope Name: Multiplier: Multiplier:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 297.191 South Parameter Value Comments / Warnings G1 Exposed Roof 2 1
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	9/23 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 10/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 11/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Parameter Value Comments / Warnings G1 Wall 19 1 Wall Exterior "EXPWALL 2" 3.840408 West Parameter Value Comments / Warnings G1 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 297.191 South Parameter Value Comments / Warnings G1 Exposed Roof 2 1 Roof

			Construction:	"EXPROOF	1"			
•	•	•	Envelope area [m2]:	306.998	<u> </u>			
	•	•	Orientation:	North				
•	•	•	Officiation.	North				
>	>	>	12/23 Envelope		Parameter V	alue	Comments	/ Warnings
_	_			Name:	G1 Exposed I			<u> </u>
				Multiplier:	1			
			Type	of envelope:	Floor or Ceilir	ng		
				cts space to:	Underground			
			U-value for ground flo		0.15			
				Construction:	"EXPFLOOR	1"		
			Envelop	e area [m2]:	653.858			
			·	Orientation:	Horizontal			
>	>	>	13/23 Envelope	Parameter \	Value	Com	ments / Wa	rnings
	-		Name:	G1 Partition				
			Multiplier:	1				
			Type of envelope:	Wall				
			Connects space to:	Conditioned	adjoining space	e		
			Construction:	"PARTITION				
			Envelope area [m2]:	175.7003				
			Orientation:	West				
>	>	>	14/23 Envelope	Parameter \	Value	Comme	nts / Warni	ngs
			Name:	G1 Roofligh	t container 1			
			Multiplier:	1				
			Type of envelope:	Roof				
			Flat roof:	NO				
			Connects space to:	Exterior				
			Construction:	"Containing	construction"			
			Envelope area [m2]:	6.01				
			Orientation:	North				
<u>></u>	<u>></u>	>	> 1/1 Window/Roo	flight			eter Value	Comments / Warnings
					Name:		oflight 1	
					Multiplier:			
					Glazing Type:		<u> IT 1"</u>	
			. U-value for	window inclin	ation [W/m2K]:	2		
			. <u> </u>		Area [m2]:			
			. Ratio between de					
٠	•	•			isplay window:			
٠	•	•			nading system:		er cases	
			•	irans	mission factor:	1		
			45/00 Envelope	Danamatan	Value	0		
2	2	>	15/23 Envelope	Parameter \		Comme	nts / Warni	ngs
٠		•	Name:		t container 2			
٠		•	Multiplier:	1 Doof				
٠	•	•	Type of envelope: Flat roof:	Roof NO				
•								
•			Connects space to: Construction:	Exterior "Containing	construction"			
				Containing	CONSTRUCTION			
			Envelope area [m2]:	6.01				
			Envelope area [m2]:	6.01 North		Daram	eter Value	Comments / Warnings

					Name	O4 Daafliaht 0	
	٠				Name:	G1 Rooflight 2	
	٠				Multiplier:	1	
				I I wales fam.	Glazing Type:	"RLIGHT 1"	
	٠			U-value for	window inclination [W/m2K]:	2	
	•	٠		Datie batasas de	Area [m2]:	6.01	
		٠		Ratio between de	veloped and projected area:	1	
	•	٠			Display window:	NO	
	٠				Shading system:	All other cases	
	•	٠			Transmission factor:	1	
			- 40	/00 F	- · · · · · ·	0 (() ()	
2	2	>	16	/23 Envelope	Parameter Value	Comments / Warnir	<u>igs</u>
		٠		Name:	G1 Rooflight container 3		
	•			Multiplier:	1		
				Type of envelope:	Roof		
			_	Flat roof:	NO		
			С	onnects space to:	Exterior		
			_	Construction:	"Containing construction"		
			En	velope area [m2]:	6.01		
				Orientation:	North		
<u>></u>	<u>></u>	>	>	1/1 Window/Roo		Parameter Value	Comments / Warnings
					Name:	G1 Rooflight 3	
					Multiplier:	1	
					Glazing Type:	"RLIGHT 1"	
				U-value for	window inclination [W/m2K]:	2	
					Area [m2]:	6.01	
				Ratio between de	veloped and projected area:	1	
					Display window:	NO	
					Shading system:	All other cases	
				V00 F	Shading system: Transmission factor:	All other cases	
<u>></u>	<u>></u>			/23 Envelope	Shading system: Transmission factor: Parameter Value	All other cases	ngs
<u>></u>			17	Name:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4	All other cases	ngs
		>		Name: Multiplier:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1	All other cases	ngs
				Name: Multiplier: Type of envelope:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof	All other cases	ngs
				Name: Multiplier: Type of envelope: Flat roof:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO	All other cases	ngs
				Name: Multiplier: Type of envelope: Flat roof: connects space to:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior	All other cases	ngs
≥ . 	· · · · · · · · · · · · · · · ·		C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction"	All other cases	ngs
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01	All other cases	ngs
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction"	All other cases	ngs
· · · <u>></u> · · · · · · · ·			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North	All other cases 1 Comments / Warnin	
		· · · · · · · · · · · · · · · · · · ·	C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North	All other cases 1 Comments / Warnin Parameter Value	Comments / Warnings
			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4	
			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation:	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1	
			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1"	
			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2	
			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2 6.01	
			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2 6.01 1	
			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2 6.01 1 NO	
			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2 6.01 1 NO All other cases	
$\ldots \qquad			C	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2 6.01 1 NO	
			>	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo U-value for	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	Comments / Warnings
$\dots \wedge \wedge \wedge \dots \wedge \wedge \wedge \wedge \wedge $	$\ldots \qquad		>	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo U-value for Ratio between de	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2 6.01 1 NO All other cases	Comments / Warnings
	· · · · · · ·		>	Name: Multiplier: Type of envelope: Flat roof: connects space to: Construction: nvelope area [m2]: Orientation: 1/1 Window/Roo U-value for	Shading system: Transmission factor: Parameter Value G1 Rooflight container 4 1 Roof NO Exterior "Containing construction" 6.01 North flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor:	All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 4 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	Comments / Warnings

		_	Type of envelope:	Roof		
	Ċ	_	Flat roof:	NO		
		_	Connects space to:	Exterior		
		_	Construction:	"Containing construction"		
		_	Envelope area [m2]:	6.01		
			Orientation:	North		
_	_		> 1/1 Window/Roo	flight	Parameter Value	Comments / Warnings
_	>	_	1/1 WIIIdow/Roo	Name:	G1 Rooflight 5	Comments / warmings
•	•			Multiplier:	1	
٠	•	•		Glazing Type:	"RLIGHT 1"	
•	•		LI-value for	window inclination [W/m2K]:	2	
•	•	•	O value for	Area [m2]:	6.01	
•	•	•	Ratio hetween de	veloped and projected area:	1	
•	•		Natio between de	Display window:	NO	
•	•	•		Shading system:	All other cases	
				Transmission factor:	1	
_	>	_	19/23 Envelope	Parameter Value	Comments / Warnir	nge
2		_	Name:	G1 Rooflight container 6	Comments / warm	195
•	•	_	Multiplier:	1		
•	•	-	Type of envelope:	Roof		
•	•	-	Flat roof:	NO		
•	•	_	Connects space to:	Exterior		
•	•	_	Construction:	"Containing construction"		
	•	_		6.01		
		_	Envelope area [m2]:			
			Orientation:	South		
>			Orientation:	South	Parameter Value	Comments / Warnings
<u>></u>	<u>></u>		Orientation:	South	Parameter Value G1 Rooflight 6	Comments / Warnings
			Orientation:	South		Comments / Warnings
>			Orientation:	South flight Name:	G1 Rooflight 6	Comments / Warnings
	· · · ·		Orientation: 1/1 Window/Roo	South flight Name: Multiplier:	G1 Rooflight 6 1	Comments / Warnings
· · · · · · · · · · · · · · · · · · ·	> >		Orientation: 1/1 Window/Roo	South flight Name: Multiplier: Glazing Type:	G1 Rooflight 6 1 "RLIGHT 1"	Comments / Warnings
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Orientation: 1/1 Window/Roo U-value for	South flight Name: Multiplier: Glazing Type: window inclination [W/m2K]:	G1 Rooflight 6 1 "RLIGHT 1" 2	Comments / Warnings
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Orientation: 1/1 Window/Roo U-value for	South flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]:	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01	Comments / Warnings
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Orientation: 1/1 Window/Roo U-value for	Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window:	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01	Comments / Warnings
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Orientation: 1/1 Window/Roo U-value for	Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area:	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO	Comments / Warnings
	· · · · · · · · · · · · · · · · · · ·		Orientation: 1/1 Window/Roo U-value for	South Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor:	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases	
· · · · · · · · · · · · · · · · · · ·			Orientation: 1/1 Window/Roo U-value for Ratio between de	South Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor:	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	
· · · · · · · · · · · · · · · · · · ·			Orientation: 1/1 Window/Roo U-value for Ratio between de	South Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value Parameter	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	
· · · · · · · · · · · · · · · · · · ·			Orientation: 1/1 Window/Roo U-value for Ratio between de 20/23 Envelope Name: Multiplier:	South flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value G1 Rooflight container 7	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	
· · · · · · · · · · · · · · · · · · ·			Orientation: 1/1 Window/Roo U-value for Ratio between de	South Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	
· · · · · · · · · · · · · · · · · · ·			Orientation: 1/1 Window/Roo U-value for Ratio between de 20/23 Envelope Name: Multiplier: Type of envelope: Flat roof:	Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value G1 Rooflight container 7 1 Roof	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	
<u>\lambda</u> \lambda			Orientation: 1/1 Window/Roo U-value for Ratio between de 20/23 Envelope Name: Multiplier: Type of envelope:	Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value G1 Rooflight container 7 1 Roof NO	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	
· · · · · · · · · · · · · · · · · · ·			Orientation: 1/1 Window/Roo U-value for Ratio between de 20/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction:	Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value G1 Rooflight container 7 1 Roof NO Exterior "Containing construction"	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	
· · · · · · · · · · · · · · · · · · ·			Orientation: 1/1 Window/Roo U-value for Ratio between de 20/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to:	Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value G1 Rooflight container 7 1 Roof NO Exterior	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1	
			Orientation: 1/1 Window/Roo U-value for Ratio between de 20/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value G1 Rooflight container 7 1 Roof NO Exterior "Containing construction" 6.01 South	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1 Comments / Warning	ngs
			U-value for Ratio between de Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	South South South	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1 Comments / Warnin	
			Orientation: 1/1 Window/Roo U-value for Ratio between de 20/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	South South	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 7	ngs
			Orientation: 1/1 Window/Roo U-value for Ratio between de 20/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	South flight Name: Multiplier: Glazing Type: window inclination [W/m2K]: Area [m2]: veloped and projected area: Display window: Shading system: Transmission factor: Parameter Value G1 Rooflight container 7 1 Roof NO Exterior "Containing construction" 6.01 South flight Name: Multiplier:	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 7 1	ngs
			U-value for Ratio between de 20/23 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	South South	G1 Rooflight 6 1 "RLIGHT 1" 2 6.01 1 NO All other cases 1 Comments / Warnin Parameter Value G1 Rooflight 7	ngs

			. Ratio between dev	veloped and projected area:	1	
				Display window:	NO	
				Shading system:	All other cases	
				Transmission factor:	1	
>	>	>	21/23 Envelope	Parameter Value	Comments / Warning	S
			Name:	G1 Rooflight container 8		
			Multiplier:	1		
			Type of envelope:	Roof		
			Flat roof:	NO		
			Connects space to:	Exterior		
			Construction:	"Containing construction"		
			Envelope area [m2]:	6.01		<u> </u>
			Orientation:	South		
>	>	>	> 1/1 Window/Roof	ight	Parameter Value (Comments / Warnings
				Name:	G1 Rooflight 8	
				Multiplier:	1	
				Glazing Type:	"RLIGHT 1"	
			. U-value for v	window inclination [W/m2K]:	2	
				Area [m2]:	6.01	
			. Ratio between dev	veloped and projected area:	1	
				Display window:	NO	
				Shading system:	All other cases	
				Transmission factor:	1	
>	>	>	22/23 Envelope	Parameter Value	Comments / Warning	<u></u>
-	_		Name:	G1 Rooflight container 9		
			Multiplier:	1		
			Type of envelope:	Roof		
			Flat roof:	NO		
			Connects space to:	Exterior		
			Construction:	"Containing construction"		
			Envelope area [m2]:	6.01		
			Orientation:	South		_
>	>	>	> 1/1 Window/Roof	light	Parameter Value (Comments / Warnings
				Name:	G1 Rooflight 9	
				Multiplier:	1	
				Glazing Type:	"RLIGHT 1"	
			. U-value for v	window inclination [W/m2K]:	2	
				Area [m2]:	6.01	
			. Ratio between dev	veloped and projected area:	1	
				Display window:	NO	
				Shading system:	All other cases	
				Transmission factor:	1	
>	>	>	23/23 Envelope	Parameter Value	Comments / Warning	ıs
			Name:	G1 Rooflight container 10	•	
			Multiplier:	1		
			Type of envelope:	Roof		
			Flat roof:	NO		
			Connects space to:	Exterior		
			Construction:	"Containing construction"		
			Envelope area [m2]:	6.01		

				Orientation: South			
>	>	>	>	1/1 Window/Rooflight		Parameter Value	Comments / Warnings
					Name:	G1 Rooflight 10	
					Multiplier:	1	
				_	Glazing Type:	"RLIGHT 1"	

U-value for window inclination [W/m2K]: 2Area [m2]: 6.01

Ratio between developed and projected area: 1

. . Display window: NO

Shading system: All other cases

Transmission factor: 1

	Irans	smission factor: 1	
2/2 HVAC System		Parameter Value	Comments / Warnings
General			
N	ame:	HVAC 1	
٦	Гуре:	Central heating using water: floor heating	
Heating			
Heat so	urce:	LTHW boiler	
Fuel	type:	Oil	
Effective heat generating seas	sonal ency:	0.96	
System also uses (CHP:	NO	
Ventilation			
Heat recovery sys	stem:	No heat recovery	
Heat recovery efficie	ency:	0	
System Controls			
Central time co	ntrol:	YES	
Optimum stop/start co	ntrol:	NO	

	Central time control:	YES
	Optimum stop/start control:	NO
. [Local time control:	NO
. [Local temperature control:	YES
	Weather compensation control:	NO

<u>></u>	>	1/7 Zone	Parameter Value	Comments / Warnings
		General		
		Name:	G2	
		Multiplier:	1	
		Activity:	Toilet	
		Area [m2]:	29.802	
		Height [m]:	7.59924	
		Air permeability at 50pa [m3/hm2]:	10	
		HVAC and HWS		
		HWS Generator:	"Default DHW"	
		Deadleg length [m]:	0	

Ventilation and Exhaust

Zonal ventilation type: Natural Supply

			Mechanical exhaust:	YES
•		Rate of me	chanical exhaust [l/sm2]:	0.84
			r for mechanical exhaust	1.5
			[W/(l/s)]:	
			Scope of extract system:	Extract system serving
				multiple spaces
			Destratification fans:	NO
	A	ctivity requires high pre	ssure drop air treatment:	NO
	Li	ghting (General)		
			Lighting information:	UNKNOWN
			Lamp type:	C-T05-F-T-H
		Efficient l	amps for display lighting:	NO
		abtion (Controls)		
	<u> </u>	ghting (Controls)	Light controls:	MANUAL
•	_	Λ.		YES
•	_	A	utomatic daylight zoning: Occupancy sensing:	NONE
•	_	Time cwit	ching for display lighting:	NONE
•		Time Swit	criling for display lighting.	NONE
	GI	lobal Psi Values [W/m	K1 for lunctions	
•		volving Metal Claddin		
		vorving motal olddani	Roof-Wall:	0.6
•	_		Wall-Ground floor:	1.15
•	_		Wall-Wall (corner):	0.25
•	_	Wall	-Floor (not ground floor):	0.07
•	_		el above window or door:	1.27
•	_	Link	Sill below window:	1.27
•			Jamb at window or door:	1.27
•			damb at willaow of addi.	1.21
	GI	lobal Psi Values [W/m	K1 for Junctions Not	
		volving Metal Claddin		
			Roof-Wall:	0.12
			Wall-Ground floor:	0.16
			Wall-Wall (corner):	0.09
		Wall	-Floor (not ground floor):	0.07
		Linte	el above window or door:	0.3
			Sill below window:	0.04
			Jamb at window or door:	0.05
>	>	1/7 Envelope	Parameter Value Con	nments / Warnings
		Name:	G2 Wall 1	<u> </u>
		Multiplier:	1	
		Type of envelope:	Wall	
		Connects space to:	Exterior	
		Construction:	"EXPWALL 2"	
		Envelope area [m2]:	0.31944	
		Orientation:	West	
	>	2/7 Envelope	Parameter Value Con	nments / Warnings
>			G2 Wall 2	<u>.</u>
<u>></u>		Name.	(JZ VVAII Z	
<u>></u>		Name:		
<u>></u>		Multiplier:	1	
<u>></u>		Multiplier: Type of envelope:	1 Wall	
<u>></u>		Multiplier: Type of envelope: Connects space to:	1 Wall Exterior	
<u>></u>		Multiplier: Type of envelope:	1 Wall	

•	٠	Orientation:	North
> >	>	3/7 Envelope	Parameter Value Comments / Warnings
_		Name:	G2 Exposed Roof 1
		Multiplier:	1
		Type of envelope:	Roof
		Flat roof:	NO
		Connects space to:	Exterior
		Construction:	"EXPROOF 1"
		Envelope area [m2]:	30.222
		Orientation:	North
>	>	4/7 Envelope	Parameter Value Comments / Warnings
_			Name: G2 Exposed Floor 1
			Multiplier: 1
		Type	of envelope: Floor or Ceiling
			cts space to: Underground
		U-value for ground flo	
			Construction: "EXPFLOOR 1"
		Envelop	pe area [m2]: 29.802
			Orientation: Horizontal
>	>	5/7 Envelope	Parameter Value Comments / Warnings
_		Name:	G2 Partition 1
		Multiplier:	1
-		Type of envelope:	Wall
		Connects space to:	Conditioned adjoining space
		Connects space to: Construction:	Conditioned adjoining space "PARTITION 1"
		Construction:	"PARTITION 1"
		Construction: Envelope area [m2]: Orientation:	"PARTITION 1" 51.30379 South
·		Construction: Envelope area [m2]:	"PARTITION 1" 51.30379 South
·		Construction: Envelope area [m2]: Orientation: 6/7 Envelope	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings
· · · · · · · · · · · · · · · · · · ·		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1
· · · · · · · · · · · · · · · · · · ·		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall
	· · · · · · · · · · · · · · · · · · ·	Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1"
· · · · · · · · · · · · · · · · · · ·		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East
· · · · · · · · · · · · · · · · · · ·		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East
		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings
· · · · · · · · · · · · · · · · · · ·		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3
		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier: Type of envelope:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3 1 Wall
		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3 1
		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3 1 Wall Conditioned adjoining space "PARTITION 1"
		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier: Type of envelope: Connects space to:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3 1 Wall Conditioned adjoining space
		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3 1 Wall Conditioned adjoining space "PARTITION 1" 34.87324 West
· · · · · · · · · · · · · · · · · · ·		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3 1 Wall Conditioned adjoining space "PARTITION 1" 34.87324
\(\(\\ \\		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3 1 Wall Conditioned adjoining space "PARTITION 1" 34.87324 West Parameter Value Comments / Warnings Comments /
		Construction: Envelope area [m2]: Orientation: 6/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation: 7/7 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction: Envelope area [m2]: Orientation:	"PARTITION 1" 51.30379 South Parameter Value Comments / Warnings G2 Partition 2 1 Wall Conditioned adjoining space "PARTITION 1" 35.1956 East Parameter Value Comments / Warnings G2 Partition 3 1 Wall Conditioned adjoining space "PARTITION 1" 34.87324 West Parameter Value Comments / Warnings Comments /

Activity:	Tea making
Area [m2]:	25.546
Height [m]:	7.6
Air permeability at 50pa [m3/hm2]:	10
VAC and HWS	
HWS Generator:	"Default DHW"
Deadleg length [m]:	0
entilation and Exhaust	
Zonal ventilation type:	Natural Supply
Mechanical exhaust:	YES
Rate of mechanical exhaust [l/sm2]:	1.22
Specific fan power for mechanical exhaust [W/(l/s)]:	1.5
Scope of extract system:	Extract system serving a single room
Destratification fans:	NO
Activity requires high pressure drop air treatment:	NO
ighting (General)	
Lighting (General) Lighting information:	UNKNOWN
Lamp type:	C-T05-F-T-H
Efficient lamps for display lighting:	NO
Emoioni lampo for display lighting.	110
ighting (Controls)	
Light controls:	MANUAL
Automatic daylight zoning:	YES
Occupancy sensing:	NONE
Time switching for display lighting:	NONE
Global Psi Values [W/mK] for Junctions nvolving Metal Cladding	
Global Psi Values [W/mK] for Junctions nvolving Metal Cladding Roof-Wall:	0.6
Global Psi Values [W/mK] for Junctions nvolving Metal Cladding Roof-Wall: Wall-Ground floor:	0.6 1.15
Global Psi Values [W/mK] for Junctions nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner):	0.6 1.15 0.25
Blobal Psi Values [W/mK] for Junctions nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor):	0.6 1.15 0.25 0.07
Blobal Psi Values [W/mK] for Junctions nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door:	0.6 1.15 0.25 0.07 1.27
Global Psi Values [W/mK] for Junctions nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window:	0.6 1.15 0.25 0.07 1.27
Roof-Wall: Wall-Ground floor: Wall-Floor (not ground floor: Lintel above window or door:	0.6 1.15 0.25 0.07 1.27
Blobal Psi Values [W/mK] for Junctions Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Blobal Psi Values [W/mK] for Junctions Not	0.6 1.15 0.25 0.07 1.27
Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor: Lintel above window or door: Sill below window: Jamb at window or door: Global Psi Values [W/mK] for Junctions Not	0.6 1.15 0.25 0.07 1.27
Blobal Psi Values [W/mK] for Junctions Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Blobal Psi Values [W/mK] for Junctions Not nvolving Metal Cladding	0.6 1.15 0.25 0.07 1.27 1.27
Roof-Wall: Wall-Ground floor: Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Global Psi Values [W/mK] for Junctions Not evolving Metal Cladding Roof-Wall:	0.6 1.15 0.25 0.07 1.27 1.27 1.27
Roof-Wall: Wall-Ground floor: Wall-Floor (not ground or: Sill below window: Jamb at window or door: Jamb at window or door: Wall-Ground floor: Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Wall-Ground floor: Wall-Ground floor: Wall-Floor (not ground floor): Wall-Floor (not ground floor):	0.6 1.15 0.25 0.07 1.27 1.27 1.27
Blobal Psi Values [W/mK] for Junctions Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Blobal Psi Values [W/mK] for Junctions Not and the properties of	0.6 1.15 0.25 0.07 1.27 1.27 1.27 1.27
Global Psi Values [W/mK] for Junctions Noof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Global Psi Values [W/mK] for Junctions Not envolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor):	0.6 1.15 0.25 0.07 1.27 1.27 1.27 1.27
Global Psi Values [W/mK] for Junctions nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Global Psi Values [W/mK] for Junctions Not nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door:	0.6 1.15 0.25 0.07 1.27 1.27 1.27 1.27 0.12 0.16 0.09 0.07
Roof-Wall: Wall-Ground floor: Wall-Wall (corner): United above window or door: Sill below window: Jamb at window or door: Wall-Ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Wall-Ground floor: Wall-Ground floor: Wall-Floor (not ground floor): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door:	0.6 1.15 0.25 0.07 1.27 1.27 1.27 0.12 0.16 0.09 0.07 0.3 0.04
Global Psi Values [W/mK] for Junctions nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: Global Psi Values [W/mK] for Junctions Not nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Floor (not ground floor): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door:	0.6 1.15 0.25 0.07 1.27 1.27 1.27 1.27 1.27 0.16 0.09 0.07 0.3 0.04 0.05
Global Psi Values [W/mK] for Junctions Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor: Sill below window: Jamb at window or door: Global Psi Values [W/mK] for Junctions Not nvolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor:) Lintel above window or door: Sill below window: Jamb at window or door: Sill below window: Jamb at window or door:	0.6 1.15 0.25 0.07 1.27 1.27 1.27 1.27 1.27 0.16 0.09 0.07 0.3 0.04 0.05
Global Psi Values [W/mK] for Junctions Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor: Sill below window: Jamb at window or door: Global Psi Values [W/mK] for Junctions Not envolving Metal Cladding Roof-Wall: Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor: Wall-Floor (not ground floor: Sill below window: Jamb at window or door: Sill below window: Jamb at window or door: Sill below window: Jamb at window or door: 1/9 Envelope Parameter Value Cometal Name: G3 Wall 1	0.6 1.15 0.25 0.07 1.27 1.27 1.27 1.27 1.27 0.16 0.09 0.07 0.3 0.04 0.05

			Construction:	"EXPWALL 3"			
			Envelope area [m2]:	39.18635			
			Orientation:	North			
<u>></u>	>	>	2/9 Envelope	Parameter Value Co	omme	ents / Warnings	
			Name:	G3 Wall 2			
			Multiplier:	1			
			Type of envelope:	Wall			
			Connects space to:	Exterior			
			Construction:	"EXPWALL 3"			
			Envelope area [m2]:	17.24725			
•		Ċ	Orientation:	West			
•	•	•	Onontation.	***************************************			
<u>></u>	<u>></u>	>	3/9 Envelope		omme	ents / Warnings	
			Name:	G3 Wall 3			
			Multiplier:	1			
			Type of envelope:	Wall			
			Connects space to:	Exterior			
			Construction:	"EXPWALL 3"			
			Envelope area [m2]:	8.868077			
			Orientation:	West			
			> 4/4 Window/Boo	flight		Doromotor Value	Commente / Warnings
_	_	_	> 1/1 Window/Roo			Parameter Value	Comments / Warnings
•		٠			ame:	G3 Window 3	
		٠		Multip		1	
				Glazing T		"WINDOW 3"	
			. U-value for	window inclination [W/m		1.8	
				Area [ı		1.4244	
			. Ratio between de	veloped and projected a		1	
				Display wind		NO	
				Shading syst	tem:	All other cases	
				Transmission fac	ctor:	0.8	
>	>	>	4/9 Envelope	Parameter Value Co	omme	ents / Warnings	
_			Name:	G3 Wall 5			
			Multiplier:	1			
			Type of envelope:	Wall			
			Connects space to:	Exterior			
		Ċ	Construction:	"EXPWALL 3"			
		Ċ	Envelope area [m2]:	9.26299			
			Orientation:	West			
<u>></u>	<u>></u>	<u>></u>	> 1/1 Window/Roo			Parameter Value	Comments / Warnings
					ame:	G3 Window 5	
				Multip		1	
				Glazing T		"WINDOW 3"	
			. U-value for	window inclination [W/m		1.8	
				Area [ı		1.4124	
			. Ratio between de	veloped and projected a	area:	1	
				Display wind	dow:	NO	
			·	Shading syst	tem:	All other cases	
				Transmission fac	ctor:	0.8	
>	>	>	5/9 Envelope	Parameter Value (Comn	nents / Warnings	
_	_		Name:	G3 Exposed Roof 1	Joini	ionto / trainings	
•	•	•	ivaille.	OO EXPOSED IVOUL I			

		Multiplier:	1				
	•	Type of envelope:	Roof				
	•	Flat roof:	NO				
	•	Connects space to:	Exterior				
	•	Connects space to:	"EXPROOF	1"			
•	•		25.906				
	•	Envelope area [m2]: Orientation:	North				
	•	Onemation.	NOILII				
	>	6/9 Envelope		Parame	eter Value	Comments	/ Warnings
	-	G/G Elivolopo	Name:		osed Floor 1		warmigo
	•		Multiplier:	1	0000110011	'	
	•	Type	of envelope:	Floor or	Ceiling		
	•		cts space to:	Underg			
	•	U-value for ground flo	•	0.15	. ouria		
	•		Construction:		OOR 1"		
	•		e area [m2]:	25.546	<u> </u>		
	•	Livelop	Orientation:	Horizon	ıtal		
	•		CHOIRGIOH.	110/12011			
	>	7/9 Envelope	Parameter \	Value	Co	omments / War	nings
		Name:	G3 Partition				
		Multiplier:	1				
		Type of envelope:	Wall				
		Connects space to:	Conditioned	adioining	space		
		Construction:	"PARTITION		9 0 0 0 0 0		
		Envelope area [m2]:	43.83863	<u> </u>			
	•	Orientation:	South				
		0.10.110.110					
	>	8/9 Envelope	Parameter \	Value	Co	omments / War	nings
		Name:	G3 Partition				
		Multiplier:	1				
		Type of envelope:	Wall				
		Connects space to:	Conditioned	adjoining	g space		
		Construction:	"PARTITION				
		Envelope area [m2]:	35.31255				
		Orientation:	East				
	>	9/9 Envelope	Parameter \	Value	Co	omments / War	nings
		Name:	G3 Partition	3			
		Multiplier:	1	_			
		Type of envelope:	Wall				
		Connects space to:	Conditioned	adjoining	g space		
		Construction:	"PARTITION		'		
		Envelope area [m2]:	0.374764				
		Orientation:	North				
	-						
I	3/7	7 Zone				Parameter	Comments
						Value	Warnings
	Ge	eneral			NI	C4	
					Name:	G4	
						1	
-					Multiplier:		

Area [m2]: 133.9 Height [m]: 8.46

133.937

	Air permeability at 50pa [m3/hm2]:	10
HVAC and HWS		
	HWS Generator:	"Default DHW"
	Deadleg length [m]:	0
Ventilation and Exhaus	4	
ventilation and Exhaus		Natural Supply
	Zonal ventilation type: Mechanical exhaust:	NO
	Destratification fans:	NO
Activity require	s high pressure drop air treatment:	NO
rounty roquire	o mgm procodire drop dir drodumenti.	
ighting (General)		
	Lighting information:	UNKNOWN
	Lamp type:	C-T05-F-T-H
	Efficient lamps for display lighting:	NO
ighting (Controls)		
	Light controls:	MANUAL
	Automatic daylight zoning:	YES
	Occupancy sensing:	NONE
	Time switching for display lighting:	NONE
letal Cladding	K] for Junctions Involving Roof-Wall:	0.6
	Wall-Ground floor:	1.15
	Wall-Wall (corner):	0.25
	Wall-Floor (not ground floor):	0.07
	Lintel above window or door:	1.27
	Sill below window:	1.27
	Jamb at window or door:	1.27
Global Psi Values [W/m	ıK] for Junctions Not Involving	
letal Cladding -		
	Roof-Wall:	0.12
	Wall-Ground floor:	0.16
	Wall-Wall (corner):	0.09
	Wall-Floor (not ground floor):	0.07
	Lintel above window or door:	0.3
	Sill below window:	0.04
	Jamb at window or door:	0.05
1/12 Envelope	Parameter Value Comments /	Warnings
Name:	G4 Wall 1	
Multiplier:	1	
Type of envelope:	Wall	
Connects space to:	Exterior	
Construction:	"EXPWALL 3"	
Envelope area [m2]:	81.86405	
Orientation:		
	West	
> 2/12 Envelope		Warnings
2/12 Envelope Name:	Parameter Value Comments /	Warnings
Name:	Parameter Value Comments / G4 Wall 2	Warnings
•	Parameter Value Comments /	Warnings

			C	onnects space to:	Exterior		
•	•	•		Construction:	"EXPWALL 3"		
•	•	•	Fn	velope area [m2]:	9.735114		
•	•	•		Orientation:	West		
•	•	•		Onomation.	***************************************		
>	>	>	>	1/1 Window/Roo	fliaht	Parameter Value	Comments / Warnings
_	_	_			Name:	G4 Window 2	
					Multiplier:	1	
					Glazing Type:	"WINDOW 3"	
				U-value for	window inclination [W/m2K]:	1.8	
					Area [m2]:	1.4004	
				Ratio between de	veloped and projected area:	1	
					Display window:	NO	
					Shading system:	All other cases	
					Transmission factor:	0.8	
<u>></u>	<u>></u>	>	3/1	12 Envelope	Parameter Value Comme	ents / Warnings	
				Name:	G4 Wall 4		
				Multiplier:	1		
				Type of envelope:	Wall		
			<u>C</u>	onnects space to:	Exterior		
				Construction:	"EXPWALL 3"		
			En	velope area [m2]:	10.88595		
٠				Orientation:	West		
>	>	>	>	1/1 Window/Roo	flight	Parameter Value	Comments / Warnings
_	-	_		171 171111401171100	Name:	G4 Window 4	Commonto / Warningo
			·		Multiplier:	1	
					Glazing Type:	"WINDOW 3"	
				U-value for	window inclination [W/m2K]:	1.8	
					Area [m2]:	1.4784	
				Ratio between de	veloped and projected area:	1	
					Display window:	NO	
					Shading system:	All other cases	
					Transmission factor:	0.8	
			411		D ()/ 0	4 / 134/	
2	2	>	4/1	12 Envelope		ents / Warnings	
		•		Name:	G4 Wall 6		
		٠		Multiplier:	1 Wall		
•	٠	•		Type of envelope:	Wall		
•	٠	•	C	onnects space to:	Exterior		
•	•	•		Construction:	"EXPWALL 3"		
٠	•	•	<u></u>	velope area [m2]: Orientation:	10.37813 West		
•	•	•		Offeritation.	vvest		
>	>	>	>	1/1 Window/Roo	flight	Parameter Value	Comments / Warnings
					Name:	G4 Window 6	
					Multiplier:	1	
					Glazing Type:	"WINDOW 3"	
				U-value for	window inclination [W/m2K]:	1.8	
					Area [m2]:	1.4004	
				Ratio between de	veloped and projected area:	1	
					Display window:	NO	
_					Shading system:	All other cases	
•		•	•			All Other cases	
					Transmission factor:	0.8	

>	>	>	5/12 Envelope	Parameter Value Comm	ents / Warnings	
_	_		Name:	G4 Wall 8	<u> </u>	
			Multiplier:	1		
			Type of envelope:	Wall		
			Connects space to:	Exterior		
			Construction:	"EXPWALL 3"		
			Envelope area [m2]:	10.0728		
			Orientation:	West		
>	>	>	> 1/1 Window/Roo	flight	Parameter Value	Comments / Warnings
_	_	_		Name:	G4 Window 8	
				Multiplier:	1	
				Glazing Type:	"WINDOW 3"	
			. U-value for	window inclination [W/m2K]:	1.8	
				Area [m2]:	1.4388	
			. Ratio between de	veloped and projected area:	1	
				Display window:	NO	
				Shading system:	All other cases	
				Transmission factor:	0.8	
>	>	>	6/12 Envelope	Parameter Value Com	ments / Warnings	
			Name:	G4 Exposed Roof 1		
			Multiplier:	1		
			Type of envelope:	Roof		
			Flat roof:	NO		
			Connects space to:	Exterior		
			Construction:	<u>"EXPROOF 1"</u>		
			Envelope area [m2]:	58.248		
			Orientation:	South		
<u>></u>	<u>></u>	>	7/12 Envelope		ments / Warnings	
			Name:	G4 Exposed Roof 2		
			Multiplier:	1		
			Type of envelope:	Roof		
			Flat roof:	NO		
			Connects space to:	Exterior		
			Construction:	"EXPROOF 1"		
			Envelope area [m2]:	74.06		
٠	٠	٠	Orientation:	North		
			0/40 E	D	-1 0	////
2	<u>></u>	>	8/12 Envelope	Parameter V		/ Warnings
		٠		Name: G4 Exposed	-100r 1	
٠	٠	٠	Tuno	Multiplier: 1	.~	
		٠		of envelope: Floor or Ceilir	19	
	٠	•		cts space to: Underground		
	٠	٠	U-value for ground flo		4"	
	٠	٠		Construction: "EXPFLOOR	<u>1</u>	
		•	Envelop	e area [m2]: 133.937		
•		•		Orientation: Horizontal		
>	>	>	9/12 Envelope	Parameter Value	Comments / Wa	rnings
_	_		Name:	G4 Internal Ceiling 1	Comments / Wa	11111193
•	•	•	Multiplier:	1		
•	•	•	Type of envelope:	Floor or Ceiling		
•	•	•	Type of crivelope.	co. or coming		

	Connects space to:	Conditioned adjoining space		
٠.	Construction:	"INTCEIL 1"		
٠.	Envelope area [m2]:	3.46		
٠.	Orientation:	Horizontal		
•	Orientation.	Tionzontai		
>	10/12 Envelope		mments / Warning	js –
٠.	Name:	G4 Partition 1		
	Multiplier:	1		
	Type of envelope:	Wall		
. '	Connects space to:	Conditioned adjoining space		
. '	Construction:	"PARTITION 1"		
. •	Envelope area [m2]:	98.23144		
	Orientation:	South		
> .	11/12 Envelope	Parameter Value Co	omments / Warning	us
. •	Name:	G4 Partition 3	,	
. •	Multiplier:	1		
	Type of envelope:	Wall		
٠.	Connects space to:	Conditioned adjoining space		
•	Construction:	"PARTITION 1"		
•	Envelope area [m2]:	122.9225		
٠.	Orientation:	East		
•	Onemation.	Last		
>	12/12 Envelope		omments / Warning	js –
. ,	Name:	G4 Partition 7		
٠.	Multiplier:	1		
٠.	Type of envelope:	Wall		
٠.	Connects space to:	Conditioned adjoining space		
	Construction:	"PARTITION 1"		
	Envelope area [m2]:	94.96688		
	Orientation:	North		
4/7	Zone		Parameter Value	Comments Warnings
4/7	⁷ Zone		Parameter Value	Comments Warnings
	' Zone eneral	Nama	Value	
		Name:	Value G5	
		Multiplier:	G5	
		Multiplier: Activity:	G5 1 Cellular office	
	eneral	Multiplier: Activity: Area [m2]:	G5 1 Cellular office 18.584	
	eneral	Multiplier: Activity: Area [m2]: Height [m]:	G5 1 Cellular office 18.584 8.74	
	eneral	Multiplier: Activity: Area [m2]:	G5 1 Cellular office 18.584	
Ge	eneral	Multiplier: Activity: Area [m2]: Height [m]:	G5 1 Cellular office 18.584 8.74	
Ge	eneral	Multiplier: Activity: Area [m2]: Height [m]:	G5 1 Cellular office 18.584 8.74	
Ge	eneral	Multiplier: Activity: Area [m2]: Height [m]: Air permeability at 50pa [m3/hm2]:	G5 1 Cellular office 18.584 8.74 10	
Ge	eneral /AC and HWS	Multiplier: Activity: Area [m2]: Height [m]: Air permeability at 50pa [m3/hm2]: HWS Generator: Deadleg length [m]:	G5 1 Cellular office 18.584 8.74 10 "Default DHW"	
Ge	eneral	Multiplier:	G5 1 Cellular office 18.584 8.74 10 "Default DHW" 0	
Ge	eneral /AC and HWS	Multiplier: Activity: Area [m2]: Height [m]: Air permeability at 50pa [m3/hm2]: HWS Generator: Deadleg length [m]:	G5 1 Cellular office 18.584 8.74 10 "Default DHW"	

Lighting information: UNKNOWN

Lamp type: C-T05-F-T-H

. Lighting (General)

		Efficient lamp	s for display lightin	g:	NO
_					
_iç	ghting (Controls)		I Solat a antoni		B A A B II I A I
		A t	Light control		MANUAL
			natic daylight zonin		YES
_			Occupancy sensin	_	NONE
		Time switching	g for display lightin	g:	NONE
	obal Psi Values [W/m etal Cladding	K] for Junctio	ons Involving		
	our crauding		Roof-Wa	III:	0.6
			Wall-Ground floo	or:	1.15
			Wall-Wall (corner		0.25
		Wall-Flo	or (not ground floor		0.07
			ove window or doc		1.27
_			Sill below window		1.27
		Jam	b at window or doc		1.27
	obal Psi Values [W/m etal Cladding	K] for Junctio			2.40
			Roof-Wa		0.12
			Wall-Ground floo		0.16
		167 11	Wall-Wall (corner		0.09
			or (not ground floor		0.07
		Lintel ab	ove window or doc		0.3
			Sill below window		0.04
>	4/6 Envolone	Parameter \	b at window or doc		0.05
•	1/6 Envelope Name:	G5 Exposed		its i	/ Warnings
	Multiplier:	1	1001 1		
	Type of envelope:	Roof			
	Flat roof:	NO			
	Connects space to:	Exterior			
	<u> </u>		411		
	Construction:	"EXPROOF	<u> </u>		
•	Envelope area [m2]:	18.843			
	Orientation:	South			
	2/6 Envalore		Parameter Value		Commente / Merrings
>	2/6 Envelope	Name:			Comments / Warnings
			G5 Exposed Floor	ı I	
	∓	Multiplier:	1		
	· · · · · · · · · · · · · · · · · · ·	of envelope:	Floor or Ceiling		
	Conne	cts space to:	Underground		
	U-value for ground flo	oor [W/m2K]:	0.15		
	U-value for ground flo	oor [W/m2K]: Construction:	0.15 "EXPFLOOR 1"		
	U-value for ground flo	oor [W/m2K]: Construction: oe area [m2]:	0.15 <u>"EXPFLOOR 1"</u> 18.584		
	U-value for ground flo	oor [W/m2K]: Construction:	0.15 "EXPFLOOR 1"		
·	U-value for ground flo Envelop 3/6 Envelope	Door [W/m2K]: Construction: Doe area [m2]: Orientation: Parameter \	0.15 "EXPFLOOR 1" 18.584 Horizontal	Cor	mments / Warnings
· · · · ·	U-value for ground flo Envelop 3/6 Envelope Name:	oor [W/m2K]: Construction: De area [m2]: Orientation:	0.15 "EXPFLOOR 1" 18.584 Horizontal	Cor	nments / Warnings
· · · · · · ·	U-value for ground flo	Door [W/m2K]: Construction: Doe area [m2]: Orientation: Parameter \	0.15 "EXPFLOOR 1" 18.584 Horizontal	Cor	nments / Warnings
· · · · · · · · · ·	U-value for ground flo Envelop 3/6 Envelope Name:	coor [W/m2K]: Construction: De area [m2]: Orientation: Parameter \ G5 Partition	0.15 "EXPFLOOR 1" 18.584 Horizontal	Cor	mments / Warnings
· · · · · · · · · · · · · · · · · · ·	U-value for ground flo Envelop 3/6 Envelope Name: Multiplier:	coor [W/m2K]: Construction: De area [m2]: Orientation: Parameter \ G5 Partition 1 Wall	0.15 "EXPFLOOR 1" 18.584 Horizontal /alue	Cor	mments / Warnings
· · · · · · · · · · · · · · · · · · ·	U-value for ground flo Envelope 3/6 Envelope Name: Multiplier: Type of envelope:	coor [W/m2K]: Construction: De area [m2]: Orientation: Parameter \ G5 Partition 1 Wall	0.15 "EXPFLOOR 1" 18.584 Horizontal /alue 1 adjoining space	Cor	mments / Warnings
· · · · · · · · · · · · · · · · · · ·	U-value for ground flo Envelope 3/6 Envelope Name: Multiplier: Type of envelope: Connects space to: Construction:	coor [W/m2K]: Construction: De area [m2]: Orientation: Parameter \ G5 Partition 1 Wall Conditioned "PARTITION	0.15 "EXPFLOOR 1" 18.584 Horizontal /alue 1 adjoining space	Cor	nments / Warnings
•	U-value for ground flo Envelope 3/6 Envelope Name: Multiplier: Type of envelope: Connects space to:	cor [W/m2K]: Construction: De area [m2]: Orientation: Parameter \ G5 Partition 1 Wall Conditioned	0.15 "EXPFLOOR 1" 18.584 Horizontal /alue 1 adjoining space	Cor	nments / Warnings

Orientation: North

omments /
arnings

Lighting (Controls)

Lighting (General)

Light controls: MANUAL

NO

UNKNOWN C-T05-F-T-H

Destratification fans:

Lighting information:

Efficient lamps for display lighting:

Lamp type:

Activity requires high pressure drop air treatment:

_		Autor	natic daylight zoni	ng:	YES
			Occupancy sensi	ng:	NONE
		Time switchin	ng for display lighti	ng:	NONE
	lobal Psi Values [W/m	K] for Juncti	ons Involving		
/1	etal Cladding		Roof-W	all·	0.6
_			Wall-Ground flo		1.15
			Wall-Wall (corn		0.25
		Wall-Flo	oor (not ground flo		0.07
			oove window or do		1.27
		Lintorak	Sill below windo		1.27
		Jan	nb at window or do	_	1.27
	lobal Psi Values [W/m etal Cladding	K] for Juncti	ons Not Involvin	g	
'	etai Ciadding		Roof-W	'all:	0.12
			Wall-Ground flo	or:	0.16
			Wall-Wall (corn	er):	0.09
			or (not ground flo		0.07
		Lintel at	oove window or do	or:	0.3
			Sill below wind		0.04
		Jan	nb at window or do	or:	0.05
	1/6 Envelope	Parameter \	Value Comme	ents	/ Warnings
	Name:	G6 Exposed			<u> </u>
	Multiplier:	1			
	Type of envelope:	Roof			
	Flat roof:	NO			
	Connects space to:	Exterior			
	Construction:	"EXPROOF	1"		
	Envelope area [m2]:	18.042			
	Orientation:	South			
	2/6 Envelope		Parameter Valu	e	Comments / Warning
		Name:	G6 Exposed Flo	or 1	
		Multiplier:	1		
	Туре	of envelope:	Floor or Ceiling		
		cts space to:	Underground		
	U-value for ground flo		0.15		
		Construction:	"EXPFLOOR 1"		
	Envelop	e area [m2]:	17.794		
		Orientation:	Horizontal		
	3/6 Envelope	Parameter '	Value	Col	mments / Warnings
	Name:	G6 Partition	1		
	Multiplier:	1			
	Type of envelope:	Wall			
		Conditioned	adjoining space		
	Connects space to:	Contaitionica	0.010		
	· · · · · · · · · · · · · · · · · · ·	"PARTITION			
	Construction:	"PARTITION			
	· · · · · · · · · · · · · · · · · · ·				
	Construction: Envelope area [m2]: Orientation:	"PARTITION 38.7551 North	N 1"	Co	mmants / Warnings
•	Construction: Envelope area [m2]: Orientation: 4/6 Envelope	"PARTITION 38.7551 North	Value	Coi	mments / Warnings
	Construction: Envelope area [m2]: Orientation:	"PARTITION 38.7551 North	Value	Coi	mments / Warnings

			Type of envelope:	Wall		
•	•	•	Connects space to:	Conditioned adjoining space		
•		•	Construction:	"PARTITION 1"		
•		•	Envelope area [m2]:	31.1702		
•		•	Orientation:	East		
	•	•	Onemation.	East		
			F/C Envelope	Devementar Value	mananta / Maraina	
_	<u>></u>	>	5/6 Envelope		mments / Warning	<u>js</u>
	٠	•	Name:	G6 Partition 3		
•		•	Multiplier:	1		
		•	Type of envelope:	Wall		
•		•	Connects space to:	Conditioned adjoining space		
		•	Construction:	"PARTITION 1"		
		•	Envelope area [m2]:	35.61296		
	•		Orientation:	South		
>	>	>	6/6 Envelope	Parameter Value Co	mments / Warning	gs_
			Name:	G6 Partition 4		
			Multiplier:	1		
			Type of envelope:	Wall		
			Connects space to:	Conditioned adjoining space		<u> </u>
			Construction:	"PARTITION 1"		
			Envelope area [m2]:	31.1702		
			Orientation:	West		
>	>	6/7	7 Zone		Parameter	Comments /
					Value	Warnings
		0	_			
•		Ge	eneral			
		Ge	eneral	Name:	G7	
		Ge	eneral	Name: Multiplier:	G7 1	
			eneral			
			eneral	Multiplier:	1	
				Multiplier: Activity: Area [m2]: Height [m]:	1 Storage area	
				Multiplier: Activity: Area [m2]:	1 Storage area 18.946	
				Multiplier: Activity: Area [m2]: Height [m]:	1 Storage area 18.946 7.504423	
				Multiplier: Activity: Area [m2]: Height [m]: Air permeability at 50pa [m3/hm2]:	1 Storage area 18.946 7.504423	
				Multiplier: Activity: Area [m2]: Height [m]: Air permeability at 50pa [m3/hm2]: HWS Generator:	1 Storage area 18.946 7.504423	
				Multiplier: Activity: Area [m2]: Height [m]: Air permeability at 50pa [m3/hm2]:	1 Storage area 18.946 7.504423	
		н	/AC and HWS	Multiplier: Activity: Area [m2]: Height [m]: Air permeability at 50pa [m3/hm2]: HWS Generator: Deadleg length [m]:	1 Storage area 18.946 7.504423 10	
		н		Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0	
		н	/AC and HWS	Multiplier:	1 Storage area 18.946 7.504423 10	
		н	/AC and HWS	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 Natural Supply	
		н	/AC and HWS	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0	
		н	/AC and HWS	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 Natural Supply	
		HV	ACTIVITY requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 Natural Supply NO NO	
		HV	/AC and HWS	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 Natural Supply NO NO NO	
		HV	ACTIVITY requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 Natural Supply NO NO NO NO UNKNOWN	
		HV	Activity requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 Natural Supply NO NO NO	
		HV	Activity requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 Natural Supply NO NO NO NO UNKNOWN	
		H\\ Ve	AC and HWS entilation and Exhause Activity requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 Natural Supply NO NO NO UNKNOWN C-T05-F-T-H	
		H\\ Ve	Activity requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 No No No NO NO UNKNOWN C-T05-F-T-H NO	
		H\\ Ve	AC and HWS entilation and Exhause Activity requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 No No No NO NO NO MANUAL	
		H\\ Ve	AC and HWS entilation and Exhause Activity requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 No No No NO NO MANUAL YES	
		H\\ Ve	Activity requires	Multiplier:	1 Storage area 18.946 7.504423 10 "Default DHW" 0 No No No NO NO NO MANUAL	

Global Psi Values [W/mK] for Junctions Involving Metal Cladding

	Roof-Wall:	0.6
	Wall-Ground floor:	1.15
	Wall-Wall (corner):	0.25
	Wall-Floor (not ground floor):	0.07
	Lintel above window or door:	1.27
	Sill below window:	1.27
	Jamb at window or door:	1.27

Global Psi Values [W/mK] for Junctions Not Involving Metal Cladding

	Roof-Wall: 0.12	
	Wall-Ground floor: 0.16	
	Wall-Wall (corner): 0.09	
	Wall-Floor (not ground floor): 0.07	
	Lintel above window or door: 0.3	
	Sill below window: 0.04	
	1 1 1 1 2 2 2 2	

Jamb at window or door: 0.05

>	>	>	1/7 Envelope	Parameter Value	Comments / Warnings
			Name:	G7 Wall 1	
			Multiplier:	1	
			Type of envelope:	Wall	
			Connects space to:	Exterior	
			Construction:	"EXPWALL 3"	
			Envelope area [m2]:	45.2285	
			Orientation:	South	

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 ≥
 ≥
 2/7 Envelope
 Parameter Value
 Comments / Warnings

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 G7 Wall 2

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 Multiplier:
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 Wall

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 Exterior

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Orientation: South

>	>	>	>	1/1 Door	Parameter Value	Comments / Warnings
				Name:	G7 Wall 2 (Personnel Door)	
				Multiplier:	1	
				Туре:	Personnel Doors	
				Construction:	<u>"DOOR 1"</u>	
				Δrea [m2]·	1 9089	

>	>	>	3/7 Envelope	Parameter Value	Comments / Warnings
			Name:	G7 Exposed Roof 1	
			Multiplier:	1	
			Type of envelope:	Roof	
			Flat roof:	NO	
			Connects space to:	Exterior	
			Construction:	"EXPROOF 1"	
			Envelope area [m2]:	19.211	
			Orientation:	South	

				Name: G7 Expos	ed Floor 1	
	•	•		Multiplier: 1	00.1.001.1	
	•	•	Tyne	of envelope: Floor or C	eiling	
	•	•		cts space to: Undergrou		
	•	•	U-value for ground flo		and	
		•		Construction: "EXPFLO	OP 1"	
	•	•			<u>UR I</u>	
•		٠.	Envelop	pe area [m2]: 18.946		
•	٠	•		Orientation: Horizontal		
				5 4 1/1		-
2	<u>></u>	>	5/7 Envelope	Parameter Value	Comments / Warnings	-
		٠.	Name:	G7 Partition 1		_
		٠.	Multiplier:	1		_
		٠,	Type of envelope:	Wall		-
		٠,	Connects space to:	Conditioned adjoining s	pace	_
		٠,	Construction:	"PARTITION 1"		_
			Envelope area [m2]:	20.60276		_
		٠	Orientation:	East		
>	>	>	6/7 Envelope	Parameter Value	Comments / Warnings	-
	-		Name:	G7 Partition 2		-
			Multiplier:	1		-
			Type of envelope:	Wall		-
			Connects space to:	Conditioned adjoining s	pace	-
	•	•	Construction:	"PARTITION 1"	pacc	-
•	•	•	Envelope area [m2]:	20.60962		-
•	•	•	Orientation:	West		-
•	•	•	Onemation.	VVCSt		
>	<u>></u>	>	7/7 Envelope	Parameter Value	Comments / Warnings	-
			Name:	G7 Partition 4		_
			Multiplier:	1		_
			Type of envelope:	Wall		_
			Connects space to:	Conditioned adjoining s	pace	_
			Construction:	"PARTITION 1"		_
			Envelope area [m2]:	54.94608		_
			Orientation:	North		-
	i					
>	>	7/7	7 Zone		Parameter Value	Comments / Warnings
						Wallings
		Ge	eneral			
				Name:	G8	
				Multiplier:	1	
				Activity:	Circulation area (corridors	
					and stairways)	
				Area [m2]:	20.877	
				Libertania A. Const.	4.239423	
	٠,			Height [m]:		
			Air permea	Height [m]: ability at 50pa [m3/hm2]:	10	
		H\	•			
		Н\	Air permea	ability at 50pa [m3/hm2]:	10	
		Н\	•			
			/AC and HWS	HWS Generator: Deadleg length [m]:	10 "Default DHW"	
			•	HWS Generator: Deadleg length [m]:	10 "Default DHW" 0	
			/AC and HWS	HWS Generator: Deadleg length [m]: t Zonal ventilation type:	"Default DHW" 0 Natural Supply	
			/AC and HWS	HWS Generator: Deadleg length [m]:	10 "Default DHW" 0	

_	Activity requires high pressure drop air	NO	
	treatment:	110	
<u>_L</u>	ighting (General)		
_	Lighting information:	UNKNOWN	
_	Lamp type:	C-T05-F-T-H	
	Efficient lamps for display lighting:	NO	
-	ighting (Controls)		
_	Light controls:	MANUAL	
_	Automatic daylight zoning:	YES	
	Occupancy sensing:	NONE	
	Time switching for display lighting:	NONE	
	ilobal Psi Values [W/mK] for Junctions nvolving Metal Cladding		
	Roof-Wall:	0.6	
	Wall-Ground floor:	1.15	
_	Wall-Wall (corner):	0.25	
_	Wall-Floor (not ground floor):	0.07	
_	Lintel above window or door:	1.27	
_	Sill below window:	1.27	
	Jamb at window or door:	1.27	
	ilobal Psi Values [W/mK] for Junctions Not		
	Ivolving Metal Clauding		
	Roof-Wall:	0.12	
_	Roof-Wall: Wall-Ground floor:	0.12	
_	Wall-Ground floor:	0.16	
_	Wall-Ground floor: Wall-Wall (corner):		
=	Wall-Ground floor:	0.16 0.09	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor):	0.16 0.09 0.07	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door:	0.16 0.09 0.07 0.3	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door:	0.16 0.09 0.07 0.3 0.04	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door:	0.16 0.09 0.07 0.3 0.04 0.05	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cor Name: G8 Wall 1 Multiplier: 1	0.16 0.09 0.07 0.3 0.04 0.05	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cor Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall	0.16 0.09 0.07 0.3 0.04 0.05	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cor Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior	0.16 0.09 0.07 0.3 0.04 0.05	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cor Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3"	0.16 0.09 0.07 0.3 0.04 0.05	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cornects Space to: Exterior Construction: "EXPWALL 3" Envelope area [m2]: 3.3182	0.16 0.09 0.07 0.3 0.04 0.05	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cor Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3"	0.16 0.09 0.07 0.3 0.04 0.05	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Corner (Sample of the parameter Value) Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3" Envelope area [m2]: 3.3182 Orientation: East 2/13 Envelope Parameter Value Corner (Sample of the parameter Value) Parameter Value Corner (Sample of the parameter Value) Orientation: Corner (Sample of the parameter Value) Parameter Value Corner (Sample of the parameter Value) Parameter Value Corner (Sample of the parameter Value) Parameter Value Corner (Sample of the parameter Value)	0.16 0.09 0.07 0.3 0.04 0.05	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Corname: Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3" Envelope area [m2]: 3.3182 Orientation: East 2/13 Envelope Parameter Value Corname: G8 Wall 3	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Corname: Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3" Envelope area [m2]: 3.3182 Orientation: East 2/13 Envelope Parameter Value Corname: G8 Wall 3 Multiplier: 1	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cornects space to: Connects space to: Exterior Construction: Envelope area [m2]: 3.3182 Orientation: East 2/13 Envelope Parameter Value Cornects Space to: Construction: East 2/13 Envelope Parameter Value Cornects Space Sp	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cornects space to: Exterior Connects space to: Exterior Construction: Envelope area [m2]: 3.3182 Orientation: East 2/13 Envelope Parameter Value Cornects Space Sp	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Corner Name: G8 Wall 1 Multiplier: Type of envelope: Wall Connects space to: Exterior Construction: Envelope area [m2]: Orientation: East 2/13 Envelope Parameter Value Cornects Space to: Exterior Construction: East 2/13 Envelope Parameter Value Cornects Space to: Exterior Expwall 3 Multiplier: Type of envelope: Wall Connects space to: Exterior Construction: Exterior Exterior Construction: Exterior Exterior Construction: Expwall 3	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Con Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3" Envelope area [m2]: 3.3182 Orientation: East 2/13 Envelope Parameter Value Con Name: G8 Wall 3 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Exterior Exterior Exterior Exterior Exterior Exterior Construction: Exterior Exterior Construction: "EXPWALL 3" Envelope area [m2]: 4.680951	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Corner Name: G8 Wall 1 Multiplier: Type of envelope: Wall Connects space to: Exterior Construction: Envelope area [m2]: Orientation: East 2/13 Envelope Parameter Value Cornects Space to: Exterior Construction: East 2/13 Envelope Parameter Value Cornects Space to: Exterior Expwall 3 Multiplier: Type of envelope: Wall Connects space to: Exterior Construction: Exterior Exterior Construction: Exterior Exterior Construction: Expwall 3	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings	
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Con Name: G8 Wall 1 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3" Envelope area [m2]: 3.3182 Orientation: East 2/13 Envelope Parameter Value Con Name: G8 Wall 3 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3" Envelope Parameter Value Cor Name: G8 Wall 3 Multiplier: 1 Type of envelope: Wall Connects space to: Exterior Construction: "EXPWALL 3" Envelope area [m2]: 4.680951 Orientation: East	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings mments / Warnings	Comments / Warning
	Wall-Ground floor: Wall-Wall (corner): Wall-Floor (not ground floor): Lintel above window or door: Sill below window: Jamb at window or door: 1/13 Envelope Parameter Value Cornects space to: Connects space to: Exterior Construction: Envelope area [m2]: 3.3182 Orientation: East 2/13 Envelope Parameter Value Cornects space to: East 2/13 Envelope Parameter Value Cornects space to: East 2/13 Envelope Parameter Value Cornects space to: Exterior East 2/13 Envelope Parameter Value Cornects space to: Exterior Experior Experior Construction: Experior Envelope area [m2]: Envelope area [m2]: Envelope area [m2]: Envelope East	0.16 0.09 0.07 0.3 0.04 0.05 mments / Warnings Parameter Value ne: G8 Window 3	Comments / Warning

			. U-value for	window inclination [W/m2K]:	1.8	
				Area [m2]:	3.9307	
			. Ratio between de	veloped and projected area:	1	
				Display window:	NO	
				Shading system:	All other cases	
				Transmission factor:	0.8	
>	>	>	3/13 Envelope	Parameter Value Comme	ents / Warnings	
_	_		Name:	G8 Wall 4	<u>J</u>	
·	·		Multiplier:	1		
•	•	•	Type of envelope:	Wall		
•	•	•	Connects space to:	Exterior		
•	•	•	Construction:	"EXPWALL 3"		
•	•	•	Envelope area [m2]:	10.80811		
•	•	•				
٠	٠	•	Orientation:	South		
_	_	_	> 1/1 Window/Roo	flight	Parameter Value	Comments / Warnings
_	_	<u>></u>	- I/I WIIIUUW/KOO	Name:	G8 Window 4	Comments / warnings
		•	•	Multiplier:	1	
		•	•		"WINDOW 3"	
		•	. Il valva fan	Glazing Type:		
٠			. U-value for	window inclination [W/m2K]:	1.8	
			· 	Area [m2]:	8.1052	
			. Ratio between de	veloped and projected area:	1	
				Display window:	NO	
				Shading system:	All other cases	
				Transmission factor:	0.8	
>	>	>	4/13 Envelope	Parameter Value Comme	ents / Warnings	
			Name:	G8 Wall 5		
			Multiplier:	1		
			Type of envelope:	Wall		
			Connects space to:	Exterior		
			Construction:	"EXPWALL 3"		
			Envelope area [m2]:	4.863051		
			Orientation:	West		
•		•	Onontation.	77661		
>	>	>	> 1/1 Window/Roo	flight	Parameter Value	Comments / Warnings
_	-	_		Name:	G8 Window 5	<u> </u>
				Multiplier:	1	
·	·			Glazing Type:	"WINDOW 3"	
•	•	•	I I-value for	window inclination [W/m2K]:	1.8	
•	•	•	. O value for	Area [m2]:	3.9537	
•	•	•	Patio between do	veloped and projected area:	1	
	•	•	. Railo Delweell de	Display window:	NO	
•		•				
		٠	•	Shading system:	All other cases	
			•	Transmission factor:	0.8	
		_	5/13 Envelope	Parameter Value Comme	onte / Warnings	
_	_	>	5/13 Envelope Name:	G8 Wall 6	ents / Warnings	
•		•				
			Multiplier:	1 Well		
			Type of envelope:	Wall		
			Connects space to:	Exterior		
			Construction:	"EXPWALL 3"		
			Envelope area [m2]:	10.3917		
		•				
			Orientation:	West		

>	>	>	6/13 Envelope	Parameter Value	Comme	ents / Warnings		
_	_		Name:	G8 Wall 7		<u>J</u>		
-	-	-	Multiplier:	1				
•	•	•	Type of envelope:	Wall				
•	•	•	Connects space to:	Exterior				
	•	•	Construction:	"EXPWALL 3"				
•	•	•						
	•	•	Envelope area [m2]:	4.9914				
	•	•	Orientation:	South				
>	>	>	7/13 Envelope	Parameter Value	Comme	ents / Warnings		
_	_		Name:	G8 Wall 9				
			Multiplier:	1				
			Type of envelope:	Wall				
			Connects space to:	Exterior				
•	•	•	Construction:	"EXPWALL 3"				
	•	•	Envelope area [m2]:	5.5319				
•	•	•	Orientation:	West				
	•	•	Onemation.	West				
>	>	>	> 1/1 Window/Roo	flight		Parameter Value	Comments / War	ning
					Name:	G8 Window 9		
				Mu	ıltiplier:	1		
				Glazing	g Type:	"WINDOW 3"		
			. U-value for	window inclination [W		1.8		
					a [m2]:	1.4124		
			Ratio between de	veloped and projecte		1		
•	•							
						NO		
		٠		Display w	/indow:	NO All other cases		
				Display w Shading s	vindow: system:	All other cases		
				Display w	vindow: system:			
			8/13 Envelope	Display w Shading s	vindow: system: factor:	All other cases	_	
<u>></u>			:	Display w Shading s Transmission	vindow: system: factor:	All other cases 0.8	-	
<u>></u>	· · · <u>></u> ·		8/13 Envelope	Display w Shading s Transmission	vindow: system: factor:	All other cases 0.8	-	
	·		8/13 Envelope Name:	Display was Shading so Transmission Parameter Value G8 Exposed Roof 1	vindow: system: factor:	All other cases 0.8	-	
· · · ·			8/13 Envelope Name: Multiplier:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1	vindow: system: factor:	All other cases 0.8	-	
· · · · · · · · · · · · · · · · · · ·			8/13 Envelope Name: Multiplier: Type of envelope:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof	vindow: system: factor:	All other cases 0.8	-	
·			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior	vindow: system: factor:	All other cases 0.8	-	
· · · · · · · · · · · · · · · · · · ·	· · · > · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1"	vindow: system: factor:	All other cases 0.8	-	
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832	vindow: system: factor:	All other cases 0.8	-	
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1"	vindow: system: factor:	All other cases 0.8	-	
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value	vindow: system: factor: Comr	All other cases 0.8	-	
			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832 West	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings	-	
· · · <u>></u> · · · · · <u>></u> · · · · .			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings	-	
· · · · · · · · · · · · · · · · · · ·			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings	-	
· · · <u>></u> · · · · · <u>></u> · · · · · · .			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier:	Display w Shading s Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings	-	
· · · · <u>></u> · · · · · · · · · · · · · · · · · · ·			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier: Type of envelope:	Display we Shading so Transmission Parameter Value G8 Exposed Roof 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1 Roof	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings	-	
			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier: Type of envelope: Flat roof:	Display we Shading so Transmission Parameter Value G8 Exposed Roof 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1 Roof NO Exterior	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings		
			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction:	Display we Shading so Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1 Roof NO Exterior "EXPROOF 1" Roof NO Exterior	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings	-	
· · · <u>></u> · · · · · <u>></u> · · · · · · · · · · · · · · · · · · ·			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to:	Display we Shading so Transmission Parameter Value G8 Exposed Roof 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1 Roof NO Exterior	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings		
	_ · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Display we Shading so Transmission Parameter Value G8 Exposed Roof 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1 Roof NO Exterior "EXPROOF 1" 3.453 East	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings ments / Warnings		
			8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]:	Display we Shading so Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1 Roof NO Exterior "EXPROOF 1" 3.453 East	comr	All other cases 0.8 ments / Warnings ments / Warnings	s / Warnings	
	_ · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Display we Shading so Transmission Parameter Value G8 Exposed Roof 1 1 Roof NO Exterior "EXPROOF 1" 2.832 West Parameter Value G8 Exposed Roof 2 1 Roof NO Exterior "EXPROOF 1" 3.453 East Param Name: G8 Ex	vindow: system: factor: Comr	All other cases 0.8 ments / Warnings ments / Warnings	s / Warnings	
	_ · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	8/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation: 9/13 Envelope Name: Multiplier: Type of envelope: Flat roof: Connects space to: Construction: Envelope area [m2]: Orientation:	Display we Shading standard Shading stan	comr	All other cases 0.8 ments / Warnings ments / Warnings lue Comment loor 1	s / Warnings	

			U-value for ground flo		
			(Construction: <u>"EXPFLOOR 1"</u>	
			Envelop	e area [m2]: 20.877	
				Orientation: Horizontal	
>	>	>	11/13 Envelope	Parameter Value	Comments / Warnings
			Name:	G8 Internal Ceiling 1	
			Multiplier:	1	
			Type of envelope:	Floor or Ceiling	
			Connects space to:	Conditioned adjoining space	
			Construction:	"INTCEIL 1"	
			Envelope area [m2]:	14.988	
			Orientation:	Horizontal	
>	>	>	12/13 Envelope	Parameter Value	Comments / Warnings
			Name:	G8 Partition 1	
			Multiplier:	1	
			Type of envelope:	Wall	
			Connects space to:	Conditioned adjoining space	
			Construction:	<u>"PARTITION 1"</u>	
			Envelope area [m2]:	21.6529	
			Orientation:	North	
>	>	>	13/13 Envelope	Parameter Value	Comments / Warnings
			Name:	G8 Partition 2	
			Multiplier:	1	
			Type of envelope:	Wall	
			Connects space to:	Conditioned adjoining space	
			Construction:	"PARTITION 1"	
			Envolone area [m2].	12.6524	
		•	Envelope area [m2]:		
			Orientation:	East	

BR Compliance / EPC Generation	Parameter Value	Comments / Warnings
Analysis for building regulations compliance:	Scottish Building Regulations	
Analysis for asset rating:	EPC Scotland	

Building designed and built following Accredited YES Construction Details (Scotland):

SBEM Main Calculation Output Document

Wed Jan 14 11:14:12 2009

Building name

Unit 1 Site B

Building type: Workshops/maintenance depot

SBEM is an energy calculation tool for the purpose of assessing and demonstrating compliance with Building Regulations (Part L for England and Wales, Section 6 for Scotland, Part F for Northern Ireland and Part L for Republic of Ireland) and to produce Energy Performance Certificates and Building Energy Ratings. Although the data produced by the tool may be of use in the design process, SBEM is not intended as a building design tool.

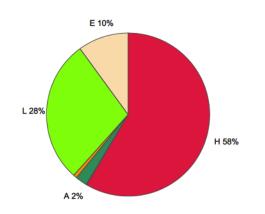
Building Energy Performance and CO2 emissions

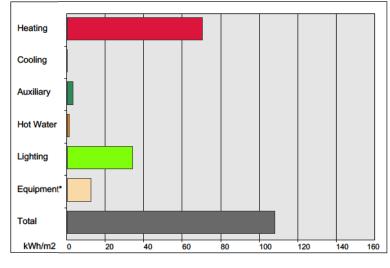


0 kgCO2/m2 displaced by the use of renewable sources.

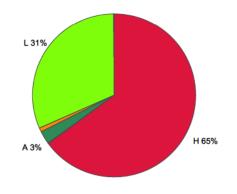
Building area is 1177.55m2

Annual Energy Consumption

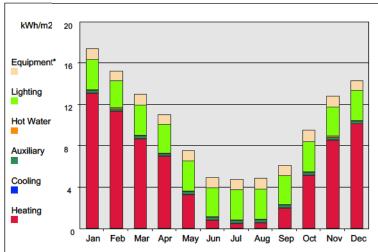




(Pie chart excluding Equipment end-use)



(*) Although energy consumption by equipment is shown in the graphs, the CO2 emissions associated with this end-use have not been taken into account when producing the rating.



	Building Energy Perform	anc	e	Scotland
a)	Calculated asset rating using DDB PartL v24.21 [SBEM]		ding type kshops/maintenance depot	Current rating
cate		Ca	arbon Neutral	Excellent
tifí		A	(0 to 15)	
Ser		В	(16 to 30)	
e (C	(31 to 45)	C+
anc		D	(46 to 60)	
Ē		Ε	(61 to 80)	
fe		F	(81 to 100)	
Pe		G	(100+)	Very Poor
Energy Performance Certificate	Carbon Dioxide Emissions The number refers to the calculated carb of kg per m² of floor area per year	oon di	oxide emissions in terms	34
Ĕ	Approximate current energy use per m²	of floo	or area:	108 kWh/m²
ш	Main heating fuel: Oil		Building Services: Heating	ng with Nat. Vent.
	Renewable energy source:			supplied
	Carbon Dioxide is a greenh Less Carbon Dioxide emis		gas which contributes to o s from buildings helps the	_
	narks ng of this type built to building regulations of issue of this certificate would have a ra		ards current at	C
Where t	he accompanying recommendations for th	ne cos		??
of energ	y performance are applied, this building w	ould h	nave a rating: 0	ff
1. Some s	nendations for the cost-effective improvem spaces have a significant risk of overheating. Con rol measures such as the application of reflective co devices to windows.	nsider	ower cost measures) of the e 4. Add weather compensation co	0, 1
2. Add opt	imum start/stop to the heating system.		5. Add local time control to heating	ng system.
recomme	efault heat generator efficiency is chosen. Inded that the heat generator system be investigated and entire inderstanding of its efficiency and possible improvements.	ted to	Consider installing building mo	ounted wind turbine(s).

Address: Unit 1, Site B, Kintore Business Park, Carnhill, AB51 0YQ

Conditioned area (m²): 1178

Name of protocol organisation: Stroma, [000148]

Date of issue of certificate: 14 Jan 2009 (Valid for a period not exceeding 10 years) This certificate is a requirement of EU Directive 2002/91/EC on the energy performance of buildings.

NB THIS CERTIFICATE MUST BE AFFIXED TO THE BUILDING AND NOT REMOVED UNLESS REPLACED WITH AN UPDATED VERSION AND FOR PUBLIC BUILDINGS DISPLAYED IN A PROMINENT PLACE

Recommendation Report Scotland

Building Address:

Unit 1

Site B

Kintore Business Park

Carnhill

AB51 0YQ

Building Type(s): Workshops/maintenance depot

ADMINISTRATIVE INFORMATION		
Issue Date:	14 Jan 2009	
Valid Until:	13 Jan 2019 (*)	
Total Useful Floor Area (m²):	1178	
Calculation Tool Used:	DDB PartL v24.21 using calculation engine SBEM v3.2.b	

QUALIFIED/ACCREDITED PERSON DETAILS	
Person Name:	Jon Ponting
Employer/Trading Address:	Kemble Enterprise Park, GL7 6BQ
Protocol Organisation:	Stroma
Membership Number:	000148

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1. Background

Building (Scotland) Act 2003 and Statutory Instrument 2007 No. 534, *The Building (Scotland) Amendment Regulations 2006*, transposes the requirements of Articles 7.2 and 7.3 of the Energy Performance of Buildings Directive 2002/91/EC.

This Recommendation Report is the Additional advice in clause 6.9.3 of the Scottish Building Standards Non-domestic Technical Handbook which may be provided. Cost effective improvements should be inserted into the Recommendations section of the Energy Performance Certificate.

This section provides general information regarding the building:

Total Useful Floor Area (m²):	1178
Building services:	Heating and Natural Ventilation

2. Introduction

This Recommendation Report was produced in line with the Government's approved methodology and is based on calculation tool DDB PartL v24.21 using calculation engine SBEM v3.2.b.

In accordance with Government's current guidance, the Qualified / Accredited Person did undertake a walk around survey of the building prior to producing this Recommendation Report.

3. Recommendations

The following sections list recommendations selected by the Qualified / Accredited Person for the improvement of the energy performance of the building. The recommendations are listed under four headings: short payback, medium payback, long payback, and other measures.

a) Recommendations with a short payback

This section lists recommendations with a payback of less than 3 years:

Recommendation	Potential impact
Some spaces have a significant risk of overheating. Consider solar control measures such as the application of reflective coating or shading devices to windows.	MEDIUM
Add optimum start/stop to the heating system.	HIGH
The default heat generator efficiency is chosen. It is recommended that the heat generator system be investigated to gain an understanding of its efficiency and possible improvements.	HIGH

b) Recommendations with a medium payback

This section lists recommendations with a payback of between 3 and 7 years:

Recommendation	Potential impact
Add weather compensation controls to heating system.	HIGH
Add local time control to heating system.	HIGH

c) Recommendations with a long payback

This section lists recommendations with a payback of more than 7 years:

Recommendation	Potential impact
Consider installing building mounted wind turbine(s).	LOW
Consider installing solar water heating.	LOW
Consider installing PV.	LOW

d) Other recommendations

This section lists other recommendations selected by the Qualified / Accredited Person, based on an understanding of the building, and / or based on a valid existing energy report.

No recommendations defined by the qualified/accredited person have been identified

4. Next steps

a) Implementing recommendations

The recommendations are provided as an indication of opportunities that appear to exist to improve the building's energy efficiency.

The calculation tool has automatically produced a set of recommendations, which the Qualified / Accredited Person has reviewed in the light of his / her knowledge of the building and its use. The Qualified / Accredited Person may have comments on the recommendations based on his / her knowledge of the building and its use.

The Qualified / Accredited Person may have inserted additional measures in section 3d (Other Recommendations). He / she may have removed some automatically generated recommendations or added additional recommendations.

These recommendations do not include matters relating to operation and maintenance which cannot be identified from the calculation procedure.

b) Legal disclaimer

The advice provided in this Recommendation Report is intended to be for information only. Recipients of this Recommendation Report are advised to seek further detailed professional advice before reaching any decision on how to improve the energy performance of the building.

c) Complaints

Details of the Qualified / Accredited Person and the relevant protocol organisation are on this report and the energy performance certificate. You can get contact details of the protocol organisation from our website at www.sbsa.gov.uk/european_issues/epcprotocols.

5. Glossary

a) Payback

The payback periods are based on data provided by Good Practice Guides and Carbon Trust energy survey reports and are average figures calculated using a simple payback method. It is assumed that the source data is correct and accurate using up to date information.

The figures have been calculated as an average across a range of buildings and may differ from the actual payback period for the building being assessed. Therefore, it is recommended that each suggested measure be further investigated before reaching any decision on how to improve the energy efficiency of the building.

b) Carbon impact

The High / Medium / Low carbon impact indicators against each recommendation are provided to distinguish, between the suggested recommendations, those that would have most impact on carbon emissions from the building. For automatically generated recommendations, the carbon impact indicators are determined by software, but may have been adjusted by the Qualifed / Accredited Person based on his / her knowledge of the building. The impact of other recommendations are determined by the assessor.

c) Valid report

A valid report is a report that has been:

- Produced within the past 10 years
- For an existing building, produced by a Qualified / Accredited Person who is accredited to produce Recommendation Reports through a Government Approved protocol agreement