



BRNO UNIVERSITY OF TECHNOLOGY

VYSOKÉ UČENÍ TECHNICKÉ V BRNĚ

FACULTY OF CIVIL ENGINEERING

FAKULTA STAVEBNÍ

INSTITUTE OF BUILDING STRUCTURES

ÚSTAV POZEMNÍHO STAVITELSTVÍ

GUESTHOUSE IN PASOHLÁVKY

PENZION PASOHLÁVKY

DAYLIGHT FACTOR ASSESSMENT

BACHELOR'S THESIS

BAKALÁŘSKÁ PRÁCE

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BRNO 2024

Daylight Visualizer

Calculation on zones

Project name: untitled
Simulation type: Daylight Factor
Daylight Visualizer version: 3.0.89

Select Country

Czech Republic ▼

Select Report Options

- ☒ EN17037
☒ Active House

EN 17037 For Czech Republic the target daylight factor (D_T) is 2.0% and the minimum daylight factor target (D_{TM}) is 0.7%. The standard is available for purchase from the National Standardization Body in your country.

Active House For Czech Republic the target daylight factor is 2.0%. The Active House specifications 3.0 are available [here](#).

** The illuminance (lux) values stated in brackets are derived from the median external diffuse illuminance recorded in weather data files for the selected location.*

Zone 0

EN17037

$F_{plane, \%} \geq 50\%$ (median)	D_T	2.59 DF[%]	Pass (386 lux)
$F_{plane, \%} \geq 95\%$	D_{TM}	1.45 DF[%]	Pass (216 lux)

Active House

$F_{plane, \%} \geq 40\%$	C4	2.80 DF[%]	Pass (417 lux)
$F_{plane, \%} \geq 50\%$	C3	2.59 DF[%]	Pass (386 lux)
$F_{plane, \%} \geq 60\%$	C2	2.44 DF[%]	Pass (364 lux)
$F_{plane, \%} \geq 70\%$	C1	2.17 DF[%]	Pass (324 lux)

Default

Average	$D_{average}$	3.07 DF[%]	
Median	D_{median}	2.59 DF[%]	
Minimum	D_{min}	1.29 DF[%]	
Maximum	D_{max}	17.72 DF[%]	
Uniformity 1	$D_{min}/D_{average}$	0.4211	
Uniformity 2	D_{min}/D_{max}	0.0728	

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Zone 0

EN17037

$F_{plane, \%} \geq 50\%$ (median)	D_T	2.07 DF[%]	Pass (309 lux)
$F_{plane, \%} \geq 95\%$	D_{TM}	1.68 DF[%]	Pass (251 lux)

Active House

$F_{plane, \%} \geq 40\%$	C4	2.21 DF[%]	Pass (329 lux)
$F_{plane, \%} \geq 50\%$	C3	2.07 DF[%]	Pass (309 lux)
$F_{plane, \%} \geq 60\%$	C2	1.97 DF[%]	Fail (294 lux)
$F_{plane, \%} \geq 70\%$	C1	1.89 DF[%]	Fail (282 lux)

Default

Average	$D_{average}$	2.62 DF[%]	
Median	D_{median}	2.07 DF[%]	
Minimum	D_{min}	1.44 DF[%]	
Maximum	D_{max}	12.92 DF[%]	
Uniformity 1	$D_{min}/D_{average}$	0.5496	
Uniformity 2	D_{min}/D_{max}	0.1114	

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Zone 0

EN17037

$F_{plane, \%} \geq 50\%$ (median)	D_T	2.36 DF[%]	Pass (351 lux)
$F_{plane, \%} \geq 95\%$	D_{TM}	1.80 DF[%]	Pass (268 lux)

Active House

$F_{plane, \%} \geq 40\%$	C4	2.58 DF[%]	Pass (384 lux)
$F_{plane, \%} \geq 50\%$	C3	2.36 DF[%]	Pass (351 lux)
$F_{plane, \%} \geq 60\%$	C2	2.22 DF[%]	Pass (330 lux)
$F_{plane, \%} \geq 70\%$	C1	2.07 DF[%]	Pass (309 lux)

Default

Average	$D_{average}$	2.96 DF[%]	
Median	D_{median}	2.36 DF[%]	
Minimum	D_{min}	1.69 DF[%]	
Maximum	D_{max}	14.38 DF[%]	
Uniformity 1	$D_{min}/D_{average}$	0.5716	
Uniformity 2	D_{min}/D_{max}	0.1176	

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Zone 0

EN17037

$F_{plane, \%} \geq 50\%$ (median)	D_T	1.76 DF[%]	Fail (262 lux)
$F_{plane, \%} \geq 95\%$	D_{TM}	1.32 DF[%]	Pass (196 lux)

Active House

$F_{plane, \%} \geq 40\%$	C4	1.89 DF[%]	Fail (282 lux)
$F_{plane, \%} \geq 50\%$	C3	1.76 DF[%]	Fail (262 lux)
$F_{plane, \%} \geq 60\%$	C2	1.62 DF[%]	Fail (241 lux)
$F_{plane, \%} \geq 70\%$	C1	1.49 DF[%]	Fail (223 lux)

Default

Average	$D_{average}$	2.04 DF[%]	
Median	D_{median}	1.76 DF[%]	
Minimum	D_{min}	1.16 DF[%]	
Maximum	D_{max}	9.38 DF[%]	
Uniformity 1	$D_{min}/D_{average}$	0.5684	
Uniformity 2	D_{min}/D_{max}	0.1236	