

GUIDELINES OF THE AUSTRIAN  
INSTITUTE OF CONSTRUCTION  
ENGINEERING

OIB DIRECTIVE

6

Energy economy  
and heat retention

National Plan OIB-  
330.6-005/18



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2018



This Directive is based on the results of the consultations held by the country expert group in the process of drawing up a proposal for the harmonisation of technical provisions on harmonisation of technical provisions. The work of this body was carried out by the OIB in accordance with the task of the Provincial Conference of the Land Office, within the meaning of § 2.2 (7) of the OIB's by-laws and continued in the Expert Advisory Group on the Construction Directives. Under Section 8 (12) of the Directive, the Directive was adopted by the General Assembly of the OIB.

**OB document**  
**The definition of the**  
**nearly zero-energy building**  
**and the**  
**Setting of intermediate targets**  
**in a**  
**National plan**  
**pursuant to**  
**Article 9 (3) on**  
**2010/31/EU First revision after 5 years**

2018-02-20

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## 1 Preliminary remarks

The document in question constitutes the first revision of the OIB document concerning the definition of the Niedrig and the setting of milestones in a National Plan on \_\_\_month-/14 in accordance with Article 9 (3) of Directive 2010/31/EU (EPBD). It takes into account the results of the first revision 2018 of the OIB document regarding the justification of the cost optimality of the requirements of OIB RL 6 and of the National Plan in accordance with Article 5 2010/31/EU.

## 2 Minimum energy performance requirements — new construction

The following requirements shall apply to **residential buildings**' requirements:

	HWB <sub>Ref, zul</sub> [kWh/m <sup>2</sup> a]	EEB <sub>zul</sub> [kWh/m <sup>2</sup> a]	FEAF, ul [-]	PEB <sub>HEB, zul, n.n.</sub> <sup>(1)</sup> [kWh/m <sup>2</sup> a]
currently applicable	14 x (1 + 3,0/t <sub>c</sub> ) Using HTEB <sub>Ref</sub>			41
	or			
From entry into force of OIB RL6: 2019 <sup>(2)</sup>	16 x (1 + 3,0/t <sub>c</sub> )		0,85	
	12 x (1 + 3,0/t <sub>c</sub> ) Using HTEB <sub>Ref</sub>			
	or			
1.1.2021 (nstEH)	16 x (1 + 3,0/t <sub>c</sub> )		0,80	
	10 x (1 + 3,0/t <sub>c</sub> ) Using HTEB <sub>Ref</sub>			
	or			
	16 x (1 + 3,0/t <sub>c</sub> )		0,75	

<sup>(1)</sup> For the purposes of Directive 2010/31/EU (EPBD), without budgetary needs and for highly efficient alternative energy systems, while limiting to yields generated for reducing household electricity demand

<sup>(2)</sup> ... from the relevant provincial transposition

The OIB requirement for **office buildings** is subject to the following requirements. for other non-residential units, analogous requirements are applicable depending on their usage profile:

	HWB <sub>Ref, zul</sub> <sup>(1)</sup> [kWh/m <sup>2</sup> a]	EEB <sub>zul</sub> [kWh/m <sup>2</sup> a]	FEAF, ul [-]	PRC + BEB + BeIEB, zul, n.n. <sup>(2)</sup> [kWh/m <sup>2</sup> a]
2016	14 x (1 + 3,0/t <sub>c</sub> ) through HTEB <sub>Ref</sub>			84
	or			
2018	16 x (1 + 3,0/t <sub>c</sub> )		0,85	
	12 x (1 + 3,0/t <sub>c</sub> ) Using HTEB <sub>Ref</sub>			
	or			
2020	16 x (1 + 3,0/t <sub>c</sub> )		0,80	
	10 x (1 + 3,0/t <sub>c</sub> ) Using HTEB <sub>Ref</sub>			
	or			
	16 x (1 + 3,0/t <sub>c</sub> )		0,75	

<sup>(1)</sup> ... were located at a height of 3 m

<sup>(2)</sup> For the purposes of Directive 2010/31/EU (EPBD), without an operating power demand, and for highly efficient alternative energy systems, while limiting to yields generated to reduce operating demand

These values may be increased by 16 kWh/m<sup>2</sup>a in the case of <sup>a</sup> need for cooling technology in relation to a 3 m limit.

### 3 Minimum energy performance requirements — major renovation

The following requirements shall apply to **residential buildings**' requirements:

	HWB <sub>Ref</sub> , zul [kWh/m <sup>2</sup> a]	EEB <sub>zul</sub> [kWh/m <sup>2</sup> a]	FEAF, ul [-]	PRC (CPRs) in cash; hEB, zul, n.n. < 1) [kWh/m <sup>2</sup> a]
2016	21 x (1 + 2,5/tc) Using HTEB <sub>Ref</sub>			44
	or			
	25 x (1 + 2,5/y		1,05	
2018	19 x (1 + 2,7/tc) Using HTEB <sub>Ref</sub>			
	or			
	25 x (1 + 2,5/tc)		1,00	
2020	17 x (1 + 2,9/tc) Using HTEB <sub>Ref</sub>			
	or			
	25 x (1 + 2,5/tc)		0,95	

<sup>(1)</sup> For the purposes of Directive 2010/31/EU (EPBD), without budgetary needs and for highly efficient alternative energy systems, while limiting to yields generated for reducing household electricity demand

<sup>(2)</sup> ... from the relevant provincial transposition

Departures from these minimum requirements may be waived if the measures necessary for technical or building reasons are not practicable.

The OIB requirement for **office buildings** is valid until 2020 inclusive, and similar requirements for other non residential buildings, depending on their usage profile:

	HWB <sub>Ref</sub> , zul [kWh/m <sup>2</sup> a]	EEB <sub>zul</sub> [kWh/m <sup>2</sup> a]	FEAF, ul [-]	PRC + BEB + BelEB, zul, n.n. < 1) [kWh/m <sup>2</sup> a]
2016	21 x (1 + 2,5/tc) Using HTEB <sub>Ref</sub>			87
	or			
	25 x (1 + 2,5/tc)		1,05	
2018	19 x (1 + 2,7/tc) Using HTEB <sub>Ref</sub>			
	or			
	25 x (1 + 2,5/tc)		1,00	
2020	17 x (1 + 2,9/tc) Using HTEB <sub>Ref</sub>			
	or			
	25 x (1 + 2,5/y		0,95	

<sup>(1)</sup> ... were located at a height of 3 m

<sup>(2)</sup> For the purposes of Directive 2010/31/EU (EPBD), without an operating power demand, and for highly efficient alternative energy systems, while limiting to yields generated to reduce operating demand

These values may be increased by 16 kWh/m<sup>2</sup>a in the case of <sup>a</sup> need for cooling technology in relation to a 3 m limit.

Departures from these minimum requirements may be waived if the measures necessary for technical or building reasons are not practicable.

#### 4 **Minimum energy performance requirements — component renovations**

Individual renovations, or exchanges or installation of individual components of the technical system, shall be made in such a way that, taking into account these specific measures, the above target requirements may be met with further measures, not simultaneously carried out.



#### 5 **Definitions**

The definitions contained in the document 'OIB Directives — definitions' apply.

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