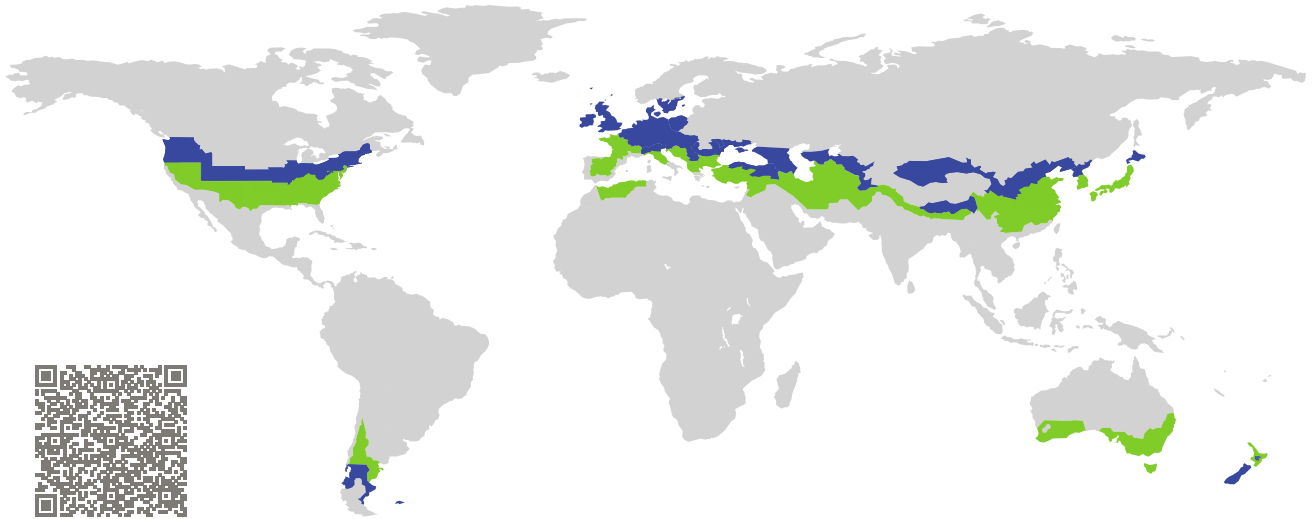


# 证书

被动房已认证组件

组件认证编码 1887wi03 有效至 31st December 2025

Passive House Institute  
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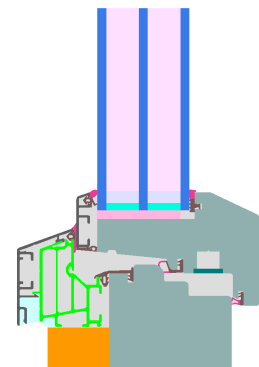


类别: 窗框  
制造商: 山东京博木基材料有限公司  
**Shandong Chambroad Timber Material  
Co.,Ltd,  
Boxing County,  
China**  
产品名称: **HHLM120**

此证书根据以下规格颁发, 适用于凉温气候带 (**cool temperate**)

舒适度  $U_W = 0.80 \leq 0.80 \text{ W}/(\text{m}^2 \text{ K})$   
 $U_{W, \text{installed}} \leq 0.85 \text{ W}/(\text{m}^2 \text{ K})$   
with  $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$

卫生标准  $f_{Rsi=0.25} \geq 0.70$



被动房  
节能等级

phE

phD

phC

phB

phA

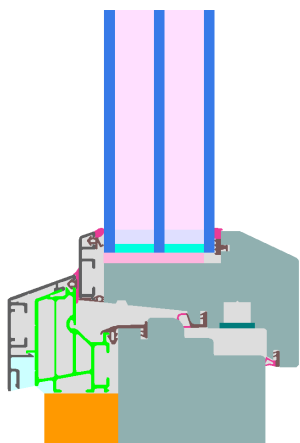
[www.passivehouse.com](http://www.passivehouse.com)

cool, temperate climate

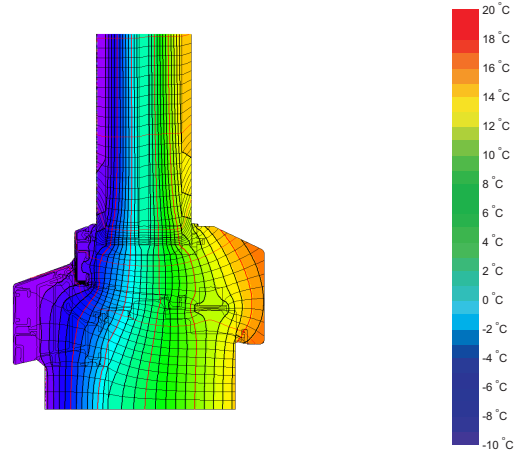


**CERTIFIED  
COMPONENT**

Passive House Institute



计算模型



等温线图

### 认证产品描述

木框 (Spruce/fir 0.11 W/(mK)) 保温隔热 (0.036 W/(mK)) 外壳 (铝和聚氯乙烯(PVC)制成) 窗厚: 51 mm (5/18/5/18/5), 槽口: 15 mm. 间隔条: SWISSPACER Ultimate 丁基双层密封

### 说明

整窗U值是基于参照尺寸 1.23 m × 1.48 m with  $U_g = 0.70 \text{ W}/(\text{m}^2 \text{ K})$ . 若使用更高品质的节能玻璃, 整窗U值可提升如下:

玻璃	$U_g =$	0.70	0.64	0.58	0.54	W/(m <sup>2</sup> K)
		↓	↓	↓	↓	
整窗	$U_W =$	0.80	0.76	0.71	0.68	W/(m <sup>2</sup> K)

建筑透明组件通过非透明部份的传热损失进行节能分级。整窗传热损失包括由窗框U值和窗框宽度, 暖边热桥和暖边长度引起的热损失。详细计算可从制造商获取。

被动房研究所将国际组件认证标准划分为七种气候类型。原则上, 满足更高节能要求的认证组件也可用于节能要求较低的气候区。在特定气候区中, 使用具有高节能要求的认证组件会更具有意义。

更多认证信息: [www.passivehouse.com](http://www.passivehouse.com) and [passipedia.org](http://passipedia.org).

# 安装节点

### Exterior insulation and finishing system

$U_{\text{墙}} = 0.13 \text{ W}/(\text{m}^2 \text{ K})$

Exterior plaster 1.0 W/(mK)  
EPS 0.035 W/(mK)  
Adhesive 0.70 W/(mK)  
Sand-lime brick 1.0 W/(mK)  
Interior plaster 0.57 W/(mK)

Suitable fastening, e.g. mounting frame or bracket, but only protruding as far as necessary for fixing the window

$\Psi_{\text{安装}}$	W/(m K)
上口	0.010
侧边	0.010
下口	0.019

$U_{W, \text{已安装}} = 0.84 \text{ W}/(\text{m}^2 \text{ K})$

### 轻质木材(开启扇)

$U_{\text{墙}} = 0.13 \text{ W}/(\text{m}^2 \text{ K})$

Exterior plaster 1.0 W/(mK)  
Wood fibre board 0.050 W/(mK)  
Cellulose 0.040 W/(mK)  
OSB-board 0.13 W/(mK)  
Insulation 0.040 W/(mK)  
Plasterboard 0.25 W/(mK)

point connection made from timber battens

$\Psi_{\text{安装}}$	W/(m K)
上口	0.015
侧边	0.015
下口	0.024

$U_{W, \text{已安装}} = 0.85 \text{ W}/(\text{m}^2 \text{ K})$

### Ventilated facade

$U_{\text{墙}} = 0.13 \text{ W}/(\text{m}^2 \text{ K})$

Ventilated facade – substructure  
Mineral wool 0.035 W/(mK)  
Concrete 2.3 W/(mK)  
Interior plaster 0.57 W/(mK)

Suitable fastening, e.g. mounting frame or bracket, but only protruding as far as necessary for fixing the window

$\Psi_{\text{安装}}$	W/(m K)
上口	0.012
侧边	0.012
下口	0.019

$U_{W, \text{已安装}} = 0.84 \text{ W}/(\text{m}^2 \text{ K})$

窗框参数		宽度 $b_f$ mm	$U$ -值 $U_f$ W/(m <sup>2</sup> K)	暖边热桥- $\Psi$ -值 $\Psi_g$ W/(m K)	温度系数 (卫生标准) $f_{Rsi=0.25}$ [-]
横梁1	(1T1)	138	0.83	0.023	0.73
下横框	(OB1)	98	0.87	0.023	0.73
上横框	(OH1)	98	0.85	0.023	0.73
侧面	(OJ1)	98	0.85	0.023	0.73
		暖边间隔条: SWISSPACER ULTIMATE		双层密封胶: Butyl	

