

Norske Limprodusenters Forening:  
Moelven Limtre AS  
Sørlaminering AS  
Vestlandske Limtre AS

## EVALUATION according to EN 16516

### LIMTRE GL 30C GRAN

RISE Research Institutes of Sweden received from **Norske Limprodusenters Forening** a sample of a laminated timber, Limtre GL 30C Gran, which is representative of the manufactured product.

It has been tested in accordance with test method “M1 Emission Classification of Building Materials: Protocol for Chemical and Sensory Testing of Building Materials”, ver 15.12.2004”, see **test report 3F026536**, dated 2014-02-17. This test method is comparable to EN 16516:2017/A1:2020 after a recalculation where all emitted compounds are quantified in concentrations in the reference room (small area scenario) and compound specific, see Table 1.

Table 1. Emitted compounds quantified compound specific and compared with the EU-LCI values (Dec 2020) and calculation of R-value:

Emitted compounds	CAS No	Test result (toluene equivalent) ( $\mu\text{g}/\text{m}^2\text{h}$ )	Test result (compound specific) ( $\mu\text{g}/\text{m}^3$ )	Limit values: EU-LCI ( $\mu\text{g}/\text{m}^3$ )	$R_i$ ( $c_i/\text{LCI}_i$ )	PASS / FAIL
TVOC	--	40	< 10 <sup>1</sup>	--	--	--
Formaldehyde	50-00-0	33	< 5	100	< 0.01	PASS
Acetaldehyde	75-07-0	10	< 5	300	< 0.01	PASS
Hexanal	66-25-1	13	< 5	900	< 0.01	PASS
$\alpha$ -Pinene	80-56-8	18	< 5	2500	< 0.01	PASS
Limonene	138-86-3	8	< 5	5000	< 0.01	PASS
$R = \sum C_i / \text{LCI}_i$				$\leq 1$	< 0.01	PASS

<sup>1)</sup> in toluene equivalent

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