

















# OUR MAIN GOAL IS TO DECARBONIZE BUILDING AND PROMOTE THE DEVELOPMENT OF GREEN CITIES.

Building the world's most sustainable construction materials is what we do best, and by doing so, we inspire our customers achieve more in their own construction projects:



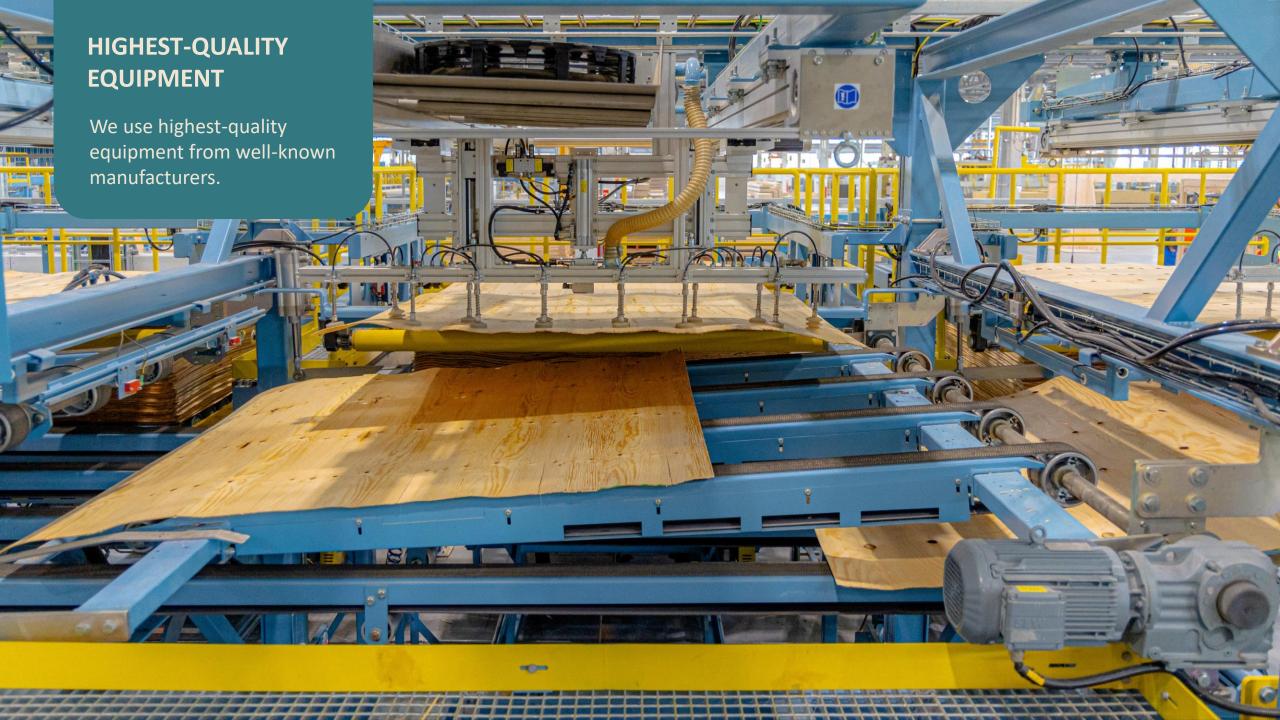
**Build faster** 

Build more flexibly

Build more affordable

Build more sustainably







#### **FACTS AND FIGURES**



10 ha
total land area where our
factory is located











# THE TWO LARGEST PORTS OF THE BALTIC STATES ARE NEARBY

To the port of Klaipėda: 160 km

To the port of Ryga: 140 km





### OUR FACTORY PRODUCTION CAPABILITIES:



**I-JOIST** 

15.000.000 m/year

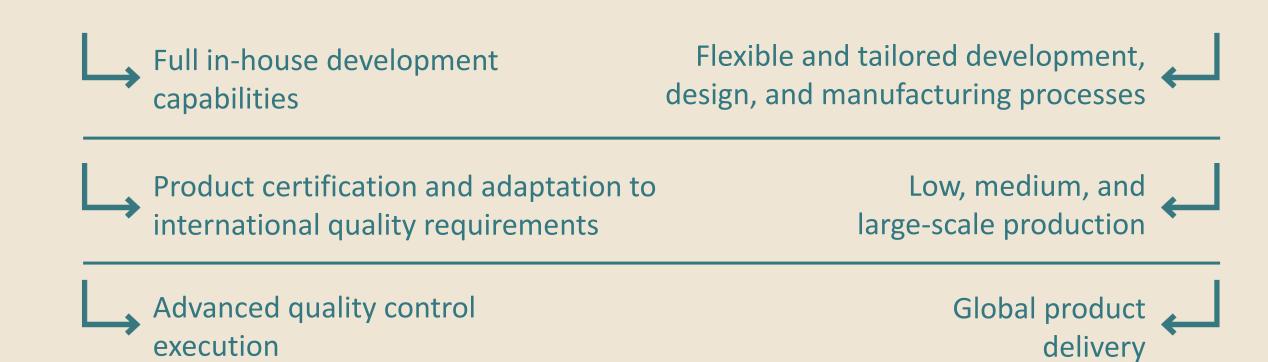


LVL

120 000 m<sup>3</sup>/year



#### WE OFFER FLEXIBLE MANUFACTURING SOLUTIONS:



### WE MANUFACTURE HIGH-QUALITY GLUED PARTICLE BOARD:



**P4** 

load-bearing boards for use in dry conditions



**P5** 

load-bearing boards for use in humid conditions



**P6** 

heavy duty loadbearing boards for use in dry conditions



**P7** 

heavy duty loadbearing boards for use in humid conditions

#### STANDARD VMG LIGNUM BOARDS DIMENSIONS:

#### VMG LIGNUM BOARD FOR FLOORS



Thickness: 18, 22, 25, 38 mm



Width: 300 – 1200 mm



Length: 1200 – 3000 mm



Available edges: T&G 4, T&G 2, Regular

#### VMG LIGNUM BOARD FOR WALLS



Thickness: 8, 10, 12 mm



Width: 300 – 1200 mm



Length: 1200 – 3000 mm



Available edges: T&G 4, T&G 2, Regular

#### VMG LIGNUM BOARD | READY TO PAINT



Thickness: 8, 10, 12 mm



Width: 300 – 1200 mm



Length: 1200 – 3000 mm



Available edge: T&G 4, T&G 2, Regular

#### VMG LIGNUM BOARD | DECOR WALL



Thickness: 8, 10, 12 mm



Width: 300 – 1200 mm

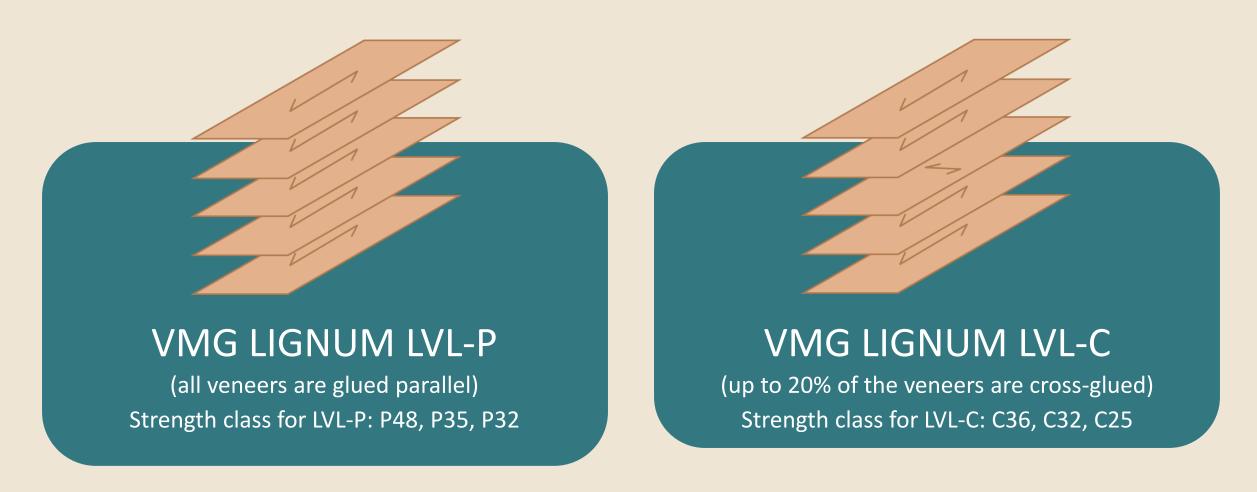


Length: 1200 – 3000 mm



Available edge: T&G 4, T&G 2, Regular

#### WE MANUFACTURE TWO TYPES OF LVL:

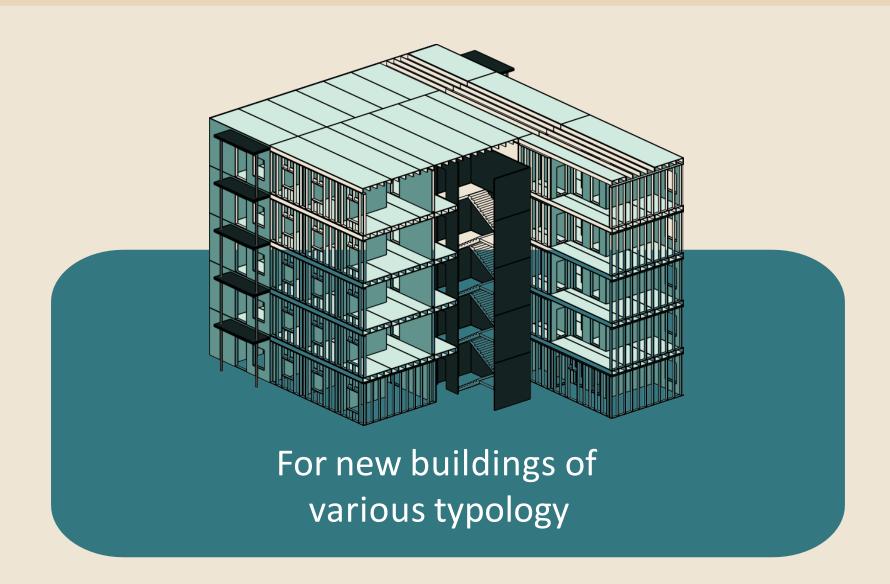


LVL—P is characterized by greater strength and stiffness along the longitudical axis, while LVL—C is stronger perpendicular to the fiber. LVL—P is more suitable for beams, studs and columns, and LVL—C for slabs, lintels.

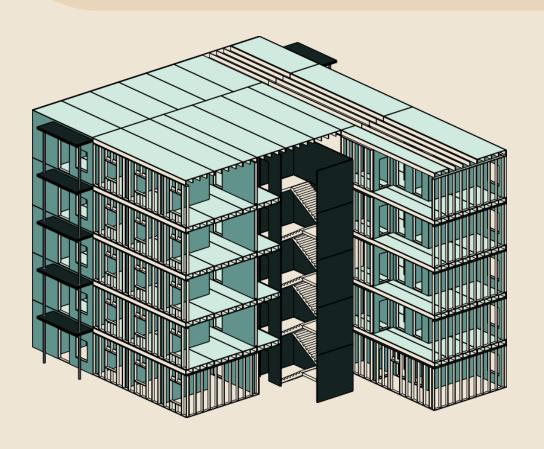
### VMG LIGNUM LVL-P AND VMG LIGNUM LVL-C MARGINAL DIMENSIONS:



### WE DEVELOP BUILDING SYSTEMS AND PREFABRICATED ELEMENTS:



### WE DEVELOP BUILDING SYSTEMS AND PREFABRICATED ELEMENTS:



- (1) Studs (VMG LIGNUM LVL-P, VMG LIGNUM Joist)
- (2) Roof rafters (VMG LIGNUM LVL-P, VMG LIGNUM joist)
- (3) Slab perimeter beams (VMG LIGNUM LVL-P/C, VMG LIGNUM Joist)
- (4) Slab beams (VMG LIGNUM LVL-P, VMG LIGNUM JOIST)
- (5) Inside wall plates (VMG LIGNUM LVL-C, VMG LIGNUM BOARD)
- (6) Slab plate (VMG LIGNUM LVL-C, VMG LIGNUM BOARD)
- (7) Roof plate (VMG LIGNUM LVL-C, VMG LIGNUM BOARD)
- (8) Lintels (VMG LIGNUM LVL-P/C, VMG LIGNUM GLVL)
- (9) Beams over windows and doors (VMG LIGNUM LVL-P/C, VMG LIGNUM GLVL)
- (10) Load bearing wall plate (VMG LIGNUM LVL-C)
- (11) Rib slab elements (VMG LIGNUM LVL-P/C, VMG LIGNUM GLVL)
- (12) Balcony, overanged roof plates (VMG LIGNUM LVL-C)

#### **OUR ENGINEERED WOOD PRODUCTS ARE USED IN:**



residential construction projects



commercial construction projects



government construction projects

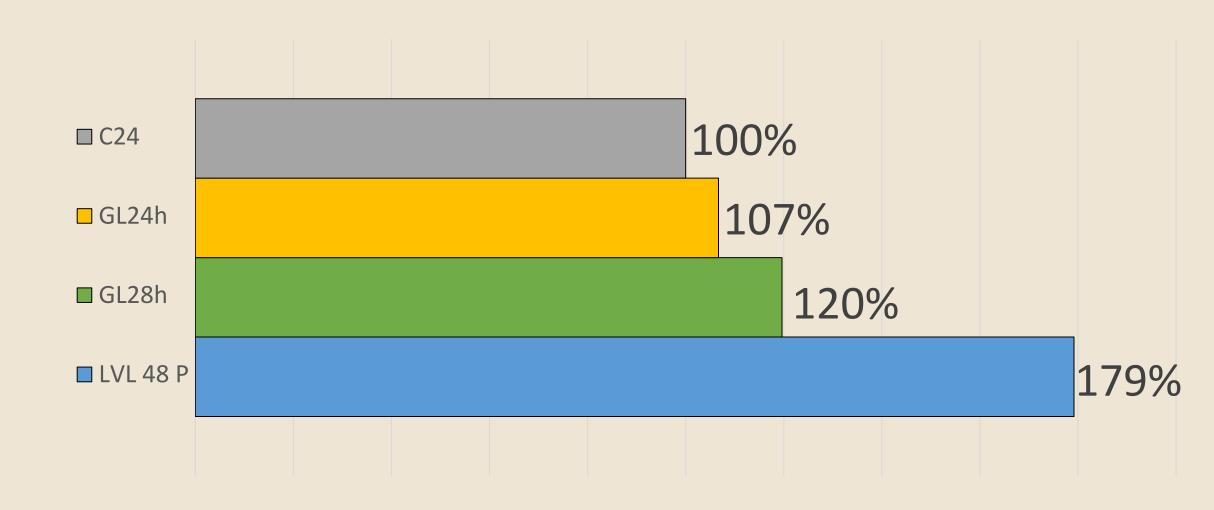


public construction projects

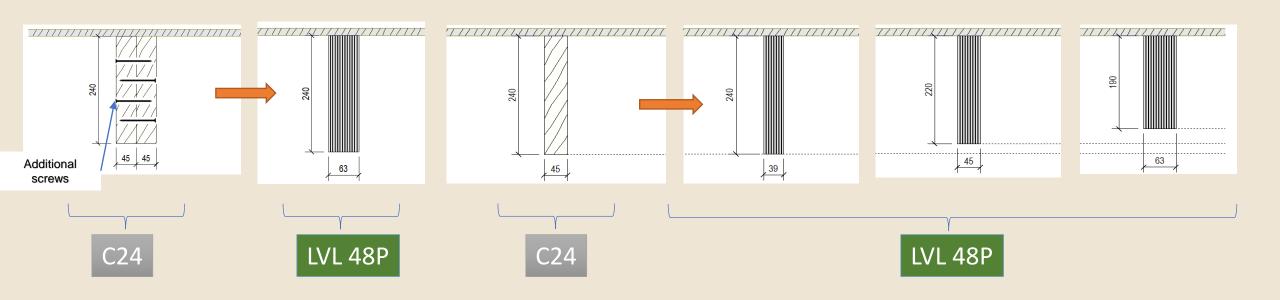
#### LVL STRENGTH COMPARISON

		C24		GL24h		GL28h		LVL 48 P	
Bending parallel to grain	$f_{\text{m,0,edge,k}}$	24	N/mm²	24	N/mm²	28	N/mm²	44	N/mm²
Tension parallel to grain	$f_{t,0,k}$	14	N/mm²	16,5	N/mm²	19,5	N/mm²	35	N/mm²
Tension perpendicular to grain	f <sub>t,90,k</sub>	0,4	N/mm²	0,4	N/mm²	0,45	N/mm²	0,8	N/mm²
Shear strength	$f_{v,0,edge,k}$	2,5	N/mm²	2,7	N/mm²	3,2	N/mm²	4,2	N/mm²
Compression parallel to grain	$f_{c,0,edge,k}$	21	N/mm²	24	N/mm²	26,5	N/mm²	35	N/mm²
Compression perpendicular to grain	$f_{c,90,edge,k}$	2,5	N/mm²	2,5	N/mm²	3	N/mm²	6	N/mm²
Modul of elasticity	E <sub>0,mean</sub>	11000	N/mm²	11600	N/mm²	12600	N/mm²	13800	N/mm²
Density	$\rho_k$	350	kg/m³	380	kg/m³	410	kg/m³	580	kg/m³

#### LVL STRENGTH COMPARISON OVERVIEW



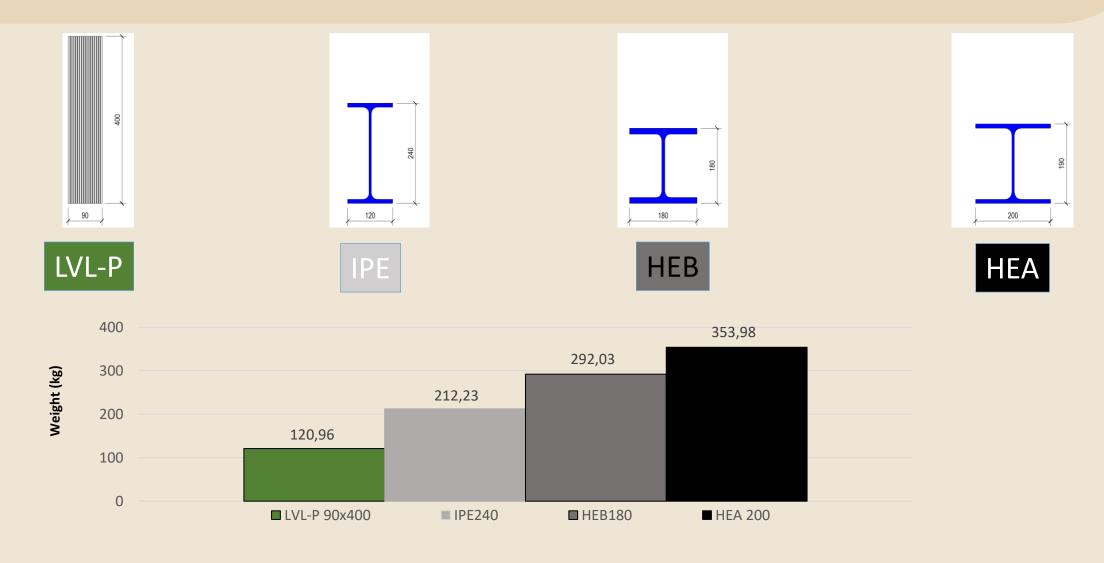
#### LVL STRENGTH FOR ROOFS AND CEILING SLABS



- 1. Up to 30% less materials
- 2. Possibility to reduce beam height, if it is not limited by another parameters
- 3. Bigger distance between loading points using the same measurement beams
- 4. Possibility to keep standard cc 600 mm distance between beams

#### LVL - LIGHTER CONSTRUCTION

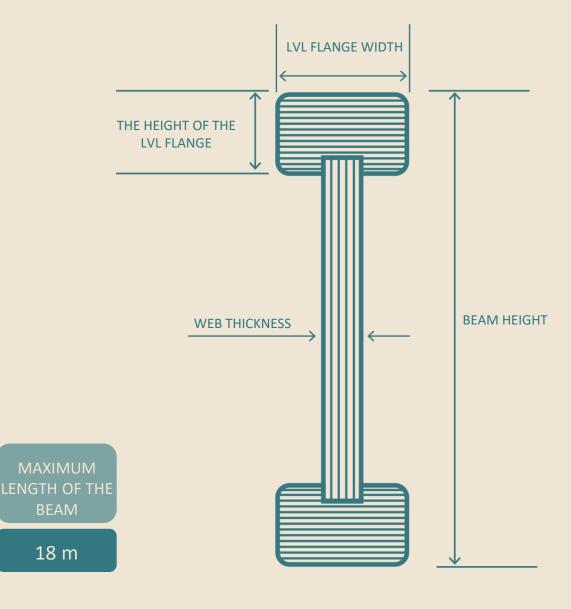
Spam longer then 6 m



WE MANUFACTURE
I-JOIST FROM OUR
OWN MADE LVL
AND STRUCTURAL
PARTICLE BOARD:



# VMG LIGNUM I-JOIST MARGINAL DIMENSIONS:



LVL FLANGE WIDTH

45 – 90 mm

200 – 500 mm

BEAM

HEIGHT

THE HEIGHT OF THE LVL FLANGE

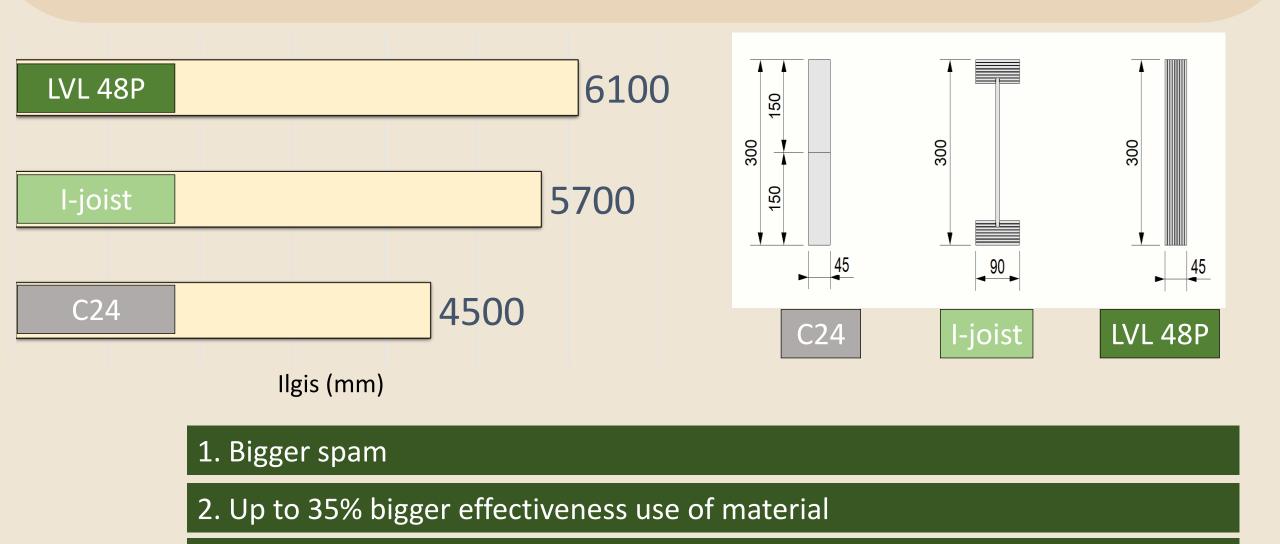
39 mm

WEB THICKNESS

**+** 

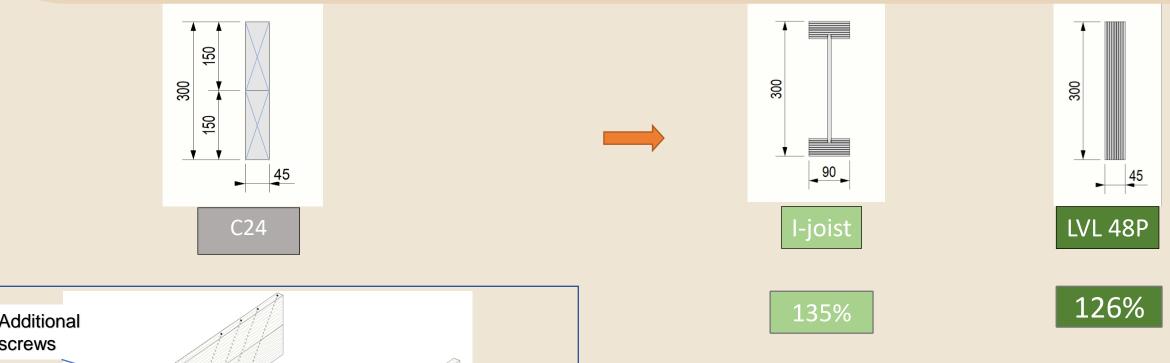
8 – 10 mm

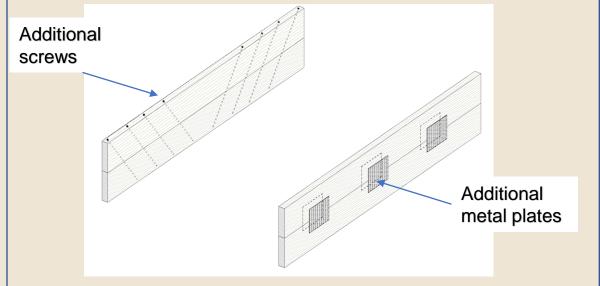
#### VMG LIGNUM JOIST FOR ROOF CONSTRUCTIONS



3. Possible to have beams longer then 6 m

#### VMG LIGNUM JOIST FOR ROOF CONSTRUCTIONS

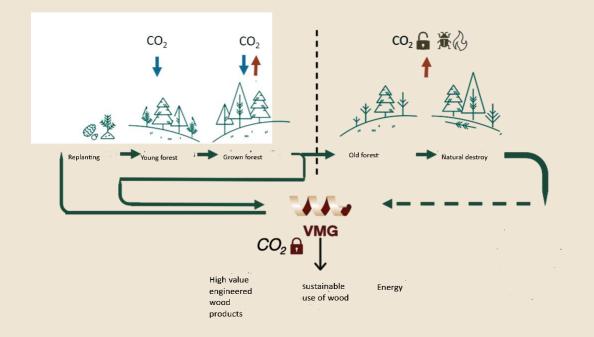




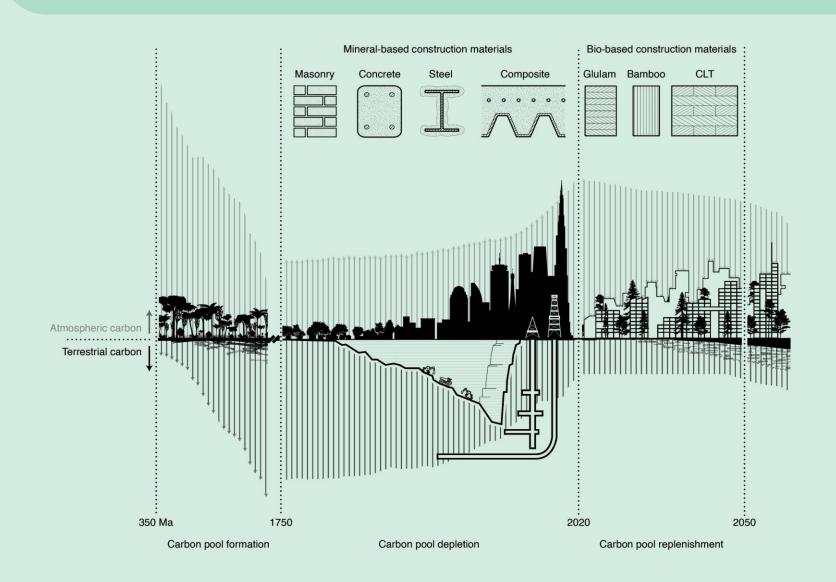
- 4. With higher beam avoiding additional metal connectors
- 5. Less additional works for preparation

### CO2 LOCKING IN ENGINEERED WOOD CONSTRUCTIONS

In order to keep EU line for reduction of CO2 emissions and lesser impact on climate, we propose to market vertically integrated and CO2 effective locking in our products.



### WOOD CONSTRUCTIONS IN TOWNS – CO<sub>2</sub> BANKS





NEW BUILDING AREAS
OF EXISTING
BUILDINGS





### WE DELIVER PRODUCTS TO OUR CLIENTS WORLDWIDE

The products manufactured by us are exported to countries in the EU, USA, and Australia.

### FOCUS ON MEETING THE VERY TOUGHEST CUSTOMER REQUIREMENTS

#### **HIGH-QUALITY RAW MATERIALS**

All our products are manufactured from sustainably sourced timber. The wood we use is purchased only from verified suppliers who meet all FSC® requirements.

#### CONSISTENTLY TESTED PRODUCT QUALITY

In compliance with the strict requirements of internationally recognized codes and standards, we have developed continuous quality control of the produced products in own quality laboratory on the production site.

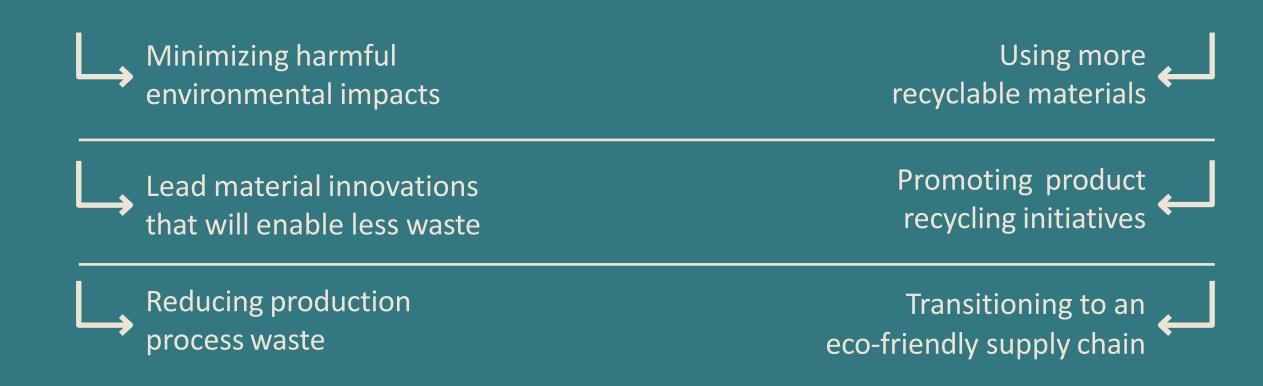
#### **CERTIFIED PRODUCTS**

VMG LIGNUM is known worldwide for high-end quality, therefore, we make no compromises when it comes to quality and reliability. All our products are certified.

#### CO<sub>2</sub> NEUTRAL AND CLIMATE-FRIENDLY BUILDING MATERIALS

Wood capture millions of tons of carbon and makes a positive impact on our planet, so engineered wood products is the most environmentally friendly building materials, which lead construction industry towards a sustainable future, and circular economy.

### OUR COMPANY AIM IS TO HAVE A POSITIVE IMPACT OVER LONG TERM ON:



#### WE ARE PART OF VMG GROUP OF COMPANIES:







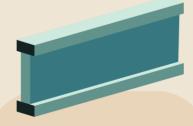




### VMG GROUP OF COMPANIES OPERATE IN FIVE STRATEGIC DIRECTIONS:



Furniture & wooden products for the furniture industry



Engineered wood for construction



Technology & innovation for industrial automation



Renewable energy



Real estate

### WHAT YOU CAN EXPECT FROM WORKING WITH US:



WE ALWAYS READY TO WALK THE EXTRA MILE!

# WE KINDLY INVITE YOU TO CONTACT US WITH ANY QUESTIONS REGARDING OUR PRODUCTS OR NEW PROJECTS.



#### PARTICLE BOARD factory:

Ryto g. 4, Menčių km., Naujosios Akmenės kaimiškoji sen., Akmenės raj., LT-85271, Lithuania



#### LVL and I-JOIST factory:

Ryto g. 6, Menčių km., Naujosios Akmenės kaimiškoji sen., Akmenės raj., LT-85271, Lithuania

#### Arnas Januška

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