

## ÖNORM M7 133

Woodchips for energy generation: quality and testing requirements from the Austrian Standards Institute



### Size classification

Chip designation	<4% of particles	<20% of particles	60 - 100% of particles	<20% of particles	Max. area cm <sup>2</sup>	Max. length cm
G30	<1 mm	1 - 3 mm	3 - 16 mm	>16 mm	3	8.5
G50	<1 mm	1 - 6 mm	6 - 32 mm	>32 mm	5	12
G100	<1 mm	1 - 11 mm	11 - 63 mm	>63 mm	10	25
G120	<1 mm	1 - 63 mm	63 - 100 mm	>100 mm	12	30
G150	<1 mm	1 - 100 mm	100 - 130 mm	>130 mm	15	40

## CHIP SIZE GUIDE

### Moisture content classification

Quality class designation	Moisture content (wet basis)	Description
W20	<20%	Air dry
W30	20% - 30%	Storable
W35	30% - 35%	Storable within limits
W40	35% - 40%	Wet
W50	40% - 50%	Green (freshly harvested)

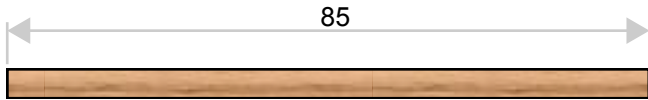
### Material density classification

Chip designation	Material density in kg/m <sup>3</sup>	Density definition
S160	<160	Low
S200	160 - 250	Medium
S250	>250	High

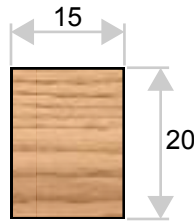
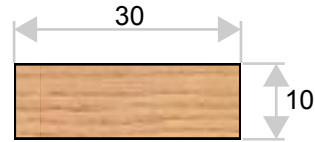
# G30 Chip size guide

Extreme values - maximum

8.5 cm long



3cm<sup>2</sup> by area



## Mass fraction i.e. Amount by weight

Dust  
Less than 4%  
<1mm

Fines  
Max 20%  
1-2.8mm

Medium  
60-100%  
2.8-16mm

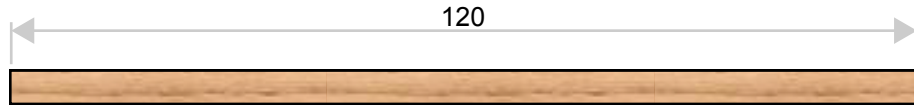
Coarse  
Max 20%  
>16mm



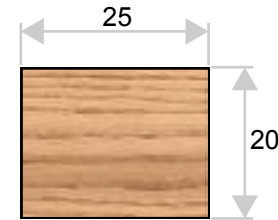
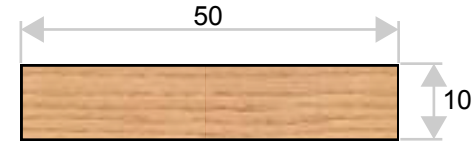
# G50 Chip size guide

Extreme values - maximum

12 cm long



5cm<sup>2</sup> by area



## Mass fraction i.e. Amount by weight

Dust  
Less than 4%  
<1mm

Fines  
Max 20%  
1-5.6mm

Medium  
60-100%  
5.6-31.5mm

Coarse  
Max 20%  
> 31.5mm

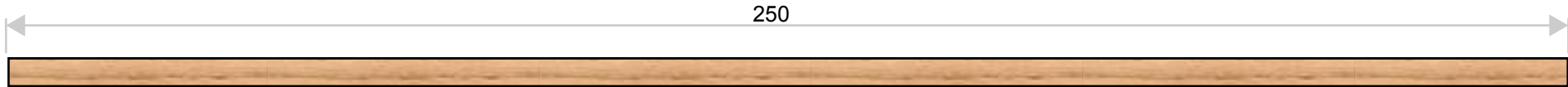


# G100 Chip size guide

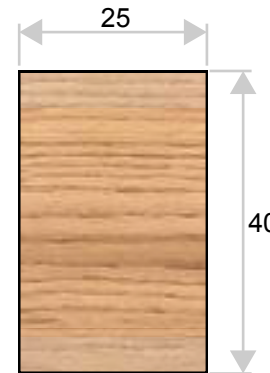
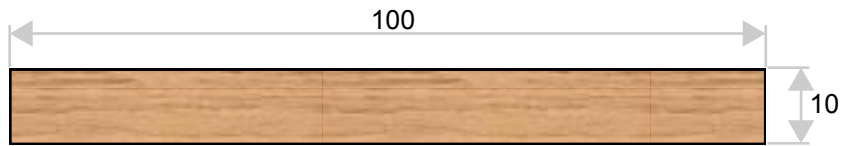
Extreme values - maximum



25 cm long



10cm<sup>2</sup> by area



## Mass fraction i.e. Amount by weight

