

## INPUT MASS

	[kg / week]		[kg / year]
Amount of green waste	$m_{GrW} =$	* 52 weeks/year =	
Amount of graden waste	$m_{GaW} =$	* 52 weeks/year =	
Amount of structure material	$m_{StM} =$	* 52 weeks/year =	
Total amount of input material	$m_{Tot} =$	* 52 weeks/year =	

## STORAGE AREAS

Input material

$m_{xxx} =$	[kg / week]
bulk density =	[kg / m <sup>3</sup> ]
dumping height =	[m]
dwel time =	[week]

$$storage\ area = \frac{m_{xxx}}{bulk\ density * dumping\ height} * \frac{dwel\ time}{6}$$

storage area 1 =

Input material

$m_{xxx} =$	[kg / week]
bulk density =	[kg / m <sup>3</sup> ]
dumping height =	[m]
dwel time =	[week]

$$storage\ area = \frac{m_{xxx}}{bulk\ density * dumping\ height} * \frac{dwel\ time}{6}$$

storage area 3 =

## STORAGE AREAS

Input material

$m_{xxx}$	=	[kg / week]
bulk density	=	[kg / m <sup>3</sup> ]
dumping height	=	[m]
dwel time	=	[week]

$$\text{storage area} = \frac{m_{xxx}}{\text{bulk density} * \text{dumping height}} * \frac{\text{dwel time}}{6}$$

storage area 3 =

Compost

$m_{Compost}$	=	[kg / week]
bulk density	=	[kg / m <sup>3</sup> ]
dumping height	=	[m]
dwel time	=	[week]

$$\text{storage area} = \frac{m_{Compost}}{\text{bulk density} * \text{dumping height}} * \frac{\text{dwel time}}{6}$$

storage area 4 = [m<sup>2</sup>]

$$\text{total storage area} = \text{storage area} (1 + 2 + 3 + 4)$$

Total storage area = [m<sup>2</sup>]

## ROTTING AREA

Input material	=	Total amount of input material	=	[kg / week]
Rotting time	=		=	[weeks]
Bulk density	=		=	[kg / m <sup>3</sup> ]
Dumping height	=		=	[m]

$$rotting\ area = 1,3 * \frac{input\ material * rotting\ time}{bulk\ density * dumping\ height}$$

1,3 is a safety value, because the windrows have a different shape (rectangle / trapezoid).

Rotting area = [m<sup>2</sup>]

## PRE-TREATMENT AND PREPARATION AREAS

Dimensions of the used machines in whole: = [m<sup>2</sup>]

TOTAL STORAGE AREA	=	[m <sup>2</sup> ]
	=	[m <sup>2</sup> ]
PRE-TREATMENT AND PREPARATION AREAS	=	[m <sup>2</sup> ]

*all togther = total storage area + rotting area + pre – treatment and preparation areas*

all togther	=	[m <sup>2</sup> ]
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*traffic way = all togther \* 0,25*

TRAFFIC WAYS (add 25%)	=	[m <sup>2</sup> ]
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*total requierd area = all togther + traffic ways*

TOTAL REQUIERD AREA	=	[m <sup>2</sup> ]
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