

# Witbier Tremor

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- Gravity **12.6 BLG**
- ABV ---
- IBU **22**
- SRM **3.6**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.9 liter(s)**
- Total mash volume **21.2 liter(s)**

## Steps

- Temp **45 C**, Time **10 min**
- Temp **62 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **1 min**

## Mash step by step

- Heat up **15.9 liter(s)** of strike water to **49.2C**
- Add grains
- Keep mash **10 min** at **45C**
- Keep mash **45 min** at **62C**
- Keep mash **15 min** at **72C**
- Keep mash **1 min** at **78C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **29 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3 kg (56.6%)	80 %	4
Grain	Pszeniczny Heidelberg Wheat Malt	2 kg (37.7%)	82 %	3
Grain	Pszenica prażona	0.3 kg (5.7%)	70 %	6

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	10 %
Boil	Hellertau Hersbrucker	15 g	15 min	4.3 %
Boil	Mandarina Bavaria	20 g	5 min	7.6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M21 Belgian Wit	Ale	Dry	10 g	---

## Extras

Type	Name	Amount	Use for	Time
Spice	Kolendra	20 g	Boil	10 min
Spice	Curacao	20 g	Boil	10 min
Spice	Trawa cytrynowa	5 g	Boil	10 min