

# Witbier II

- Gravity **11.9 BLG**
- ABV ---
- IBU **17**
- SRM **4.3**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **10 liter(s)**
- Trub loss **5 %**
- Size with trub loss **10.5 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **12.7 liter(s)**

## Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **8.4 liter(s)**
- Total mash volume **11.2 liter(s)**

## Steps

- Temp **55 C**, Time **20 min**
- Temp **65 C**, Time **100 min**
- Temp **78 C**, Time **0 min**

## Mash step by step

- Heat up **8.4 liter(s)** of strike water to **60.8C**
- Add grains
- Keep mash **20 min** at **55C**
- Keep mash **100 min** at **65C**
- Keep mash **0 min** at **78C**
- Sparge using **7.1 liter(s)** of **76C** water or to achieve **12.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsneński	1.4 kg (50%)	80 %	4
Grain	Pszenica niesłodowana	1.2 kg (42.9%)	75 %	3
Grain	Płatki owsiane	0.2 kg (7.1%)	75 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	SL Styrian Goldings 2015	10 g	60 min	5.3 %
Boil	SL Styrian Goldings 2015	15 g	5 min	5.3 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM20 Białe Walonki	Wheat	Slant	100 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
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Herb	Kolendra indyjska	20 g	Boil	5 min
Herb	Skórka gorzkiej pomarańczy	20 g	Boil	5 min
Herb	Skórka słodkiej pomarańczy	20 g	Boil	5 min