

# Zjarany Wit Stwosz

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **12**
- SRM **3.3**
- Style **Witbier**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **20 %/h**
- Boil size **27.6 liter(s)**

## Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.5 liter(s)**
- Total mash volume **18 liter(s)**

## Steps

- Temp **50 C**, Time **30 min**
- Temp **65 C**, Time **80 min**
- Temp **72 C**, Time **15 min**
- Temp **75 C**, Time **5 min**

## Mash step by step

- Heat up **13.5 liter(s)** of strike water to **55C**
- Add grains
- Keep mash **30 min** at **50C**
- Keep mash **80 min** at **65C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **75C**
- Sparge using **18.6 liter(s)** of **76C** water or to achieve **27.6 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszeniczny	2 kg (44.4%)	85 %	4
Grain	Strzegom Pilzneński	1 kg (22.2%)	80 %	4
Grain	Płatki pszeniczne	1 kg (22.2%)	85 %	3
Grain	Wheat, Torrified	0.5 kg (11.1%)	79 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	20 g	60 min	4 %
Boil	Sybilla	15 g	15 min	3.5 %
Aroma (end of boil)	Cascade PL	10 g	5 min	5.2 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's - Belgian Wit M21	Wheat	Dry	11 g	Mangrove Jack's

## Extras

<b>Type</b>	<b>Name</b>	<b>Amount</b>	<b>Use for</b>	<b>Time</b>
Spice	Curacao	20 g	Boil	10 min
Spice	Skórka Bergamotki	20 g	Boil	5 min
Spice	Kolendra	20 g	Boil	10 min
Spice	Aframon	10 g	Boil	5 min