

# Biały Kruk

- Gravity **12.1 BLG**
- ABV ---
- IBU **24**
- SRM **5.2**
- 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 **15 %/h**
- Boil size **30.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15.3 liter(s)**
- Total mash volume **20.4 liter(s)**

## Steps

- Temp **52 C**, Time **20 min**
- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **0 min**

## Mash step by step

- Heat up **15.3 liter(s)** of strike water to **57.3C**
- Add grains
- Keep mash **20 min** at **52C**
- Keep mash **60 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **0 min** at **76C**
- Sparge using **20.2 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	2.3 kg (45.1%)	79 %	6
Grain	Strzegom pszeniczny	2 kg (39.2%)	81 %	6
Grain	Wheat, Flaked	0.8 kg (15.7%)	77 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Equinox	15 g	60 min	13.1 %
Boil	Equinox	10 g	5 min	13.1 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Gozdawa Classic Belgian Witbier	Wheat	Dry	10 g	---

## Extras

Type	Name	Amount	Use for	Time
Spice	Kolendra	20 g	Boil	5 min

Spice	Skórka pomarańczowa kandyzowana	30 g	Boil	5 min
Spice	Skórka pomarańczowa świeżo starta	1 g	Boil	5 min
Spice	Skórka cytrynowa	1 g	Boil	5 min

## Notes

- Świeża skórka z jednej pomarańczy i jednej cytryny.  
*Apr 14, 2016, 6:06 PM*