

# Weizen Panieński

- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **15**
- SRM **4**
- Style **Weizen/Weissbier**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **60 %**
- Liquor-to-grist ratio **4.34 liter(s) / kg**
- Mash size **26 liter(s)**
- Total mash volume **32 liter(s)**

## Steps

- Temp **45 C**, Time **15 min**
- Temp **50 C**, Time **15 min**
- Temp **63 C**, Time **30 min**
- Temp **72 C**, Time **40 min**

## Mash step by step

- Heat up **26 liter(s)** of strike water to **47.9C**
- Add grains
- Keep mash **15 min** at **45C**
- Keep mash **15 min** at **50C**
- Keep mash **30 min** at **63C**
- Keep mash **40 min** at **72C**
- Sparge using **6.5 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pszoniczny	3 kg (50%)	85 %	4
Grain	Pilzneński	3 kg (50%)	81 %	4

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	30 min	8.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Liquid	1500 ml	Fermentum Mobile

## Extras

Type	Name	Amount	Use for	Time
Water Agent	Łuska ryżowa	150 g	Mash	60 min