

# 1. Pils Jacka 2024

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- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **30**
- SRM **3.5**

## Batch size

- Expected quantity of finished beer **27 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.4 liter(s)**
- Boil time **70 min**
- Evaporation rate **5 %/h**
- Boil size **32.9 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **22.5 liter(s)**
- Total mash volume **28.9 liter(s)**

## Steps

- Temp **52 C**, Time **10 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **22.5 liter(s)** of strike water to **56.6C**
- Add grains
- Keep mash **10 min** at **52C**
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **16.8 liter(s)** of **76C** water or to achieve **32.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5.7 kg (88.7%)	81 %	4
Grain	Pszeniczny	0.3 kg (4.7%)	85 %	4
Grain	Weyermann - Carapils	0.3 kg (4.7%)	78 %	4
Grain	Weyermann - Zakwaszajacy	0.125 kg (1.9%)	--- %	---

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Puławski	30 g	70 min	4.3 %
Boil	Sybilla	40 g	40 min	3.5 %
Boil	Hallertau Spalt Select	40 g	30 min	3.4 %