

# Potrzanowski pils

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **29**
- SRM **5**
- Style **German Pilsner (Pils)**

## Batch size

- Expected quantity of finished beer **40 liter(s)**
- Trub loss **5 %**
- Size with trub loss **42 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **52.9 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **2 liter(s) / kg**
- Mash size **19.2 liter(s)**
- Total mash volume **28.8 liter(s)**

## Steps

- Temp **62 C**, Time **15 min**
- Temp **72 C**, Time **45 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **19.2 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **15 min** at **62C**
- Keep mash **45 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **43.3 liter(s)** of **76C** water or to achieve **52.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	5.5 kg (57.3%)	80 %	4
Grain	Strzegom Monachijski typ I	1.7 kg (17.7%)	79 %	16
Grain	Strzegom Pszeniczny	0.4 kg (4.2%)	81 %	6
Grain	Strzegom Wiedeński	2 kg (20.8%)	79 %	10

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	60 min	13.5 %
Boil	Hallertau Blanc	30 g	10 min	9.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	1000 ml	Fermentis