Potrzanowskie

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **30**
- SRM 4.2
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 80 liter(s)
- Trub loss 5 %
- Size with trub loss 84 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 101.2 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 69.2 liter(s)
- Total mash volume 86.5 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 63 C, Time 20 min
 Temp 72 C, Time 40 min
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 69.2 liter(s) of strike water to 56C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 20 min at 63C
- Keep mash 40 min at 72C
- Keep mash 1 min at 78C
- Sparge using 49.3 liter(s) of 76C water or to achieve 101.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	13.5 kg <i>(78%)</i>	81 %	4
Grain	Monachijski	3 kg <i>(17.3%)</i>	80 %	16
Grain	Pszeniczny	0.8 kg <i>(4.6%)</i>	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	styrian eureka	50 g	60 min	13 %
Boil	styrian cardinal	30 g	60 min	8.5 %
Boil	Kazbek	100 g	10 min	4.6 %