Rye pale ale

- Gravity 15.4 BLG
- ABV 6.5 %
- IBU 38
- SRM **7.1**
- Style American IPA

Batch size

- Expected quantity of finished beer 10 liter(s)
- Trub loss 10 %
- Size with trub loss 11 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 13.4 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 2.6 liter(s) / kg Mash size 8.9 liter(s)
- Total mash volume 12.3 liter(s)

Steps

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

Mash step by step

- Heat up 8.9 liter(s) of strike water to 70.1C
- Add grains
- Keep mash 30 min at 62C
- Keep mash 30 min at 72C
- Keep mash 10 min at 78C
- Sparge using 7.9 liter(s) of 76C water or to achieve 13.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	2 kg <i>(58.3%)</i>	80 %	4
Grain	Żytni	0.8 kg <i>(23.3%)</i>	85 %	8
Grain	Strzegom Wiedeński	0.6 kg <i>(17.5%)</i>	79 %	10
Grain	Caraaroma	0.03 kg <i>(0.9%)</i>	78 %	400

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Warrior	15 g	60 min	13.5 %