Owczarek belgijski

- Gravity 20.2 BLG
- ABV ----
- IBU 120
- SRM **13.9**
- Style Belgian IPA

Batch size

- Expected quantity of finished beer 17.5 liter(s)
- Trub loss 10 %
- Size with trub loss 19.3 liter(s)
- · Boil time 75 min
- Evaporation rate 7 %/h
- Boil size 21 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 24.5 liter(s)
- Total mash volume 31.5 liter(s)

Steps

- Temp 52 C, Time 10 min
 Temp 62 C, Time 45 min
 Temp 69 C, Time 45 min
- Temp **77 C**, Time **15 min**

Mash step by step

- Heat up 24.5 liter(s) of strike water to 56.6C
- Add grains
- Keep mash 10 min at 52C
- Keep mash 45 min at 62C
- Keep mash 45 min at 69C
- Keep mash 15 min at 77C
- Sparge using 3.5 liter(s) of 76C water or to achieve 21 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	5 kg <i>(71.4%)</i>	80 %	7.5
Grain	Castlemalting Abbey	1 kg <i>(14.3%)</i>	78 %	45
Grain	Monachijski	1 kg (14.3%)	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	75 min	11 %
Boil	lunga	35 g	20 min	11 %
Boil	Topaz	40 g	20 min	15 %
Boil	Ella (AUS)	30 g	20 min	14.6 %
Boil	Topaz	10 g	5 min	15 %
Boil	Ella (AUS)	30 g	5 min	14.6 %
Boil	Amarillo	100 g	5 min	9.5 %
Boil	lunga	35 g	5 min	11 %
Dry Hop	Ella (AUS)	40 g	7 day(s)	14.6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M41 Belgian Ale	Ale	Dry	10 g	Mangrove Jack's

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	5 g	Boil	5 min