Polskie Ale

- Gravity 12.1 BLG
- ABV ---
- IBU **36**
- SRM 4.2

Batch size

- Expected quantity of finished beer 50 liter(s)
- Trub loss 5 %
- Size with trub loss 52.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 63.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 33 liter(s)
- Total mash volume 44 liter(s)

Steps

- Temp 66 C, Time 60 min
 Temp 72 C, Time 15 min
 Temp 76 C, Time 10 min

Mash step by step

- Heat up 33 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 15 min at 72C
- Keep mash 10 min at 76C
- Sparge using 41.3 liter(s) of 76C water or to achieve 63.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pszeniczny	1 kg (9.1%)	85 %	4
Grain	Strzegom Pilzneński	9 kg <i>(81.8%)</i>	80 %	4
Grain	Optima Karmel 6-9	1 kg <i>(9.1%)</i>	80 %	7.5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	50 g	60 min	11.6 %
Boil	lunga	20 g	15 min	11.6 %
Boil	Lublin (Lubelski)	20 g	15 min	3.5 %
Aroma (end of boil)	Lublin (Lubelski)	50 g	0 min	3.5 %
Aroma (end of boil)	Sybilla	50 g	0 min	3.5 %
Dry Hop	Sybilla	50 g	15 day(s)	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	10 g	Mangrove Jack's
Mangrove Jack's M54 California Lager	Ale	Dry	10 g	Mangrove Jack's

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech Irlandzki	10 g	Boil	10 min