Borter Pałtycki 3

- Gravity 20.2 BLG
- ABV 8.9 %
- IBU 27
- SRM **36.7**
- Style Baltic Porter

Batch size

- Expected quantity of finished beer 11 liter(s)
- Trub loss 5 %
- Size with trub loss 11.6 liter(s)
- Boil time 120 min
- Evaporation rate 15 %/h
- Boil size 16.5 liter(s)

Mash information

- Mash efficiency 65 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 19.1 liter(s)
- Total mash volume 24.5 liter(s)

Steps

- Temp 62 C, Time 35 min
 Temp 72 C, Time 35 min
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 19.1 liter(s) of strike water to 68C
- Add grains
- Keep mash 35 min at 62C
- Keep mash 35 min at 72C
- Keep mash 1 min at 78C
- Sparge using 2.9 liter(s) of 76C water or to achieve 16.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	castle - Vienna Malt	3.7 kg <i>(67.9%)</i>	77.5 %	7
Grain	Carafa special III 1300-1500	0.25 kg <i>(4.6%)</i>	70 %	1400
Grain	red ale viking malt	0.5 kg (9.2%)	75 %	70
Grain	castle- Light Munich Malt	1 kg <i>(18.3%)</i>	82 %	14

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	20 g	60 min	7.5 %
Aroma (end of boil)	Marynka	20 g	5 min	7.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
wyeast munich lager	Lager	Slant	600 ml	