Bitter2

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **28**
- SRM **5.3**
- Style Special/Best/Premium Bitter

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- · Boil time 60 min
- Evaporation rate 8 %/h
- Boil size 28.1 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 76 C, Time 10 min

Mash step by step

- Heat up 17.5 liter(s) of strike water to 74.9C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 10 min at 76C
- Sparge using 15.6 liter(s) of 76C water or to achieve 28.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale ale Malteurop	4.5 kg <i>(90%)</i>	80 %	8
Grain	Carahell	0.3 kg <i>(6%)</i>	77 %	26
Grain	płatki jęczmienne opiekane	0.15 kg <i>(3%)</i>	65 %	5
Grain	płatki żytnie oiekane	0.05 kg (1%)	78 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Tradition	40 g	60 min	5.5 %
Boil	Tradition	20 g	15 min	5.5 %
Whirlpool	Tradition	20 g	0 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP004 - Irish Ale Yeast	Ale	Liquid	300 ml	White Labs

Extras

Type Name	Amount	Use for	Time
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Fining	whirlfloc t	() 5 a	l Boil	10 min
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