Rudy bobrek

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **53**
- SRM 3.3

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22.6 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 27.9 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.7 liter(s)
- Total mash volume 19.6 liter(s)

Steps

- Temp **53 C**, Time **10 min** Temp **63 C**, Time **30 min** Temp **73 C**, Time **30 min**
- Temp 78 C, Time 30 min

Mash step by step

- Heat up 14.7 liter(s) of strike water to 58.5C
- Add grains
- Keep mash 10 min at 53C
- Keep mash 30 min at 63C
- Keep mash 30 min at 73C
- Keep mash 30 min at 78C
- Sparge using 18.1 liter(s) of 76C water or to achieve 27.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pilsen Malt	4.4 kg (89.8%)	80.5 %	2
Grain	Pszeniczny	0.3 kg (6.1%)	85 %	4
Grain	Carared	0.2 kg <i>(4.1%)</i>	75 %	39

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Sladek	35 g	70 min	6 %
Boil	Mandarina Bavaria	35 g	30 min	10 %
Whirlpool	Zatecki czerweniak	24 g	0 min	5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Other	koncentrat słodowy	2 g	Primary	4 day(s)

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Spice	imbir	200 a	Secondary	3 day(s)
I Spice	IIIIIIII	200 g	Jecondary	1 J Uay(3)