koźlak

- Gravity 28.1 BLG
- ABV **13.6** %
- IBU **41**
- SRM **14.8**
- Style Doppelbock

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 2.5 liter(s) / kg
- Mash size 37.5 liter(s)
- Total mash volume 52.5 liter(s)

Steps

- Temp **50 C**, Time **30 min** Temp **68 C**, Time **60 min** Temp **72 C**, Time **15 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 37.5 liter(s) of strike water to 56C
- Add grains
- Keep mash 30 min at 50C
- Keep mash 60 min at 68C
- Keep mash 15 min at 72C
- Keep mash 5 min at 76C
- Sparge using 9.2 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	5 kg <i>(33.3%)</i>	79 %	10
Grain	Strzegom Monachijski typ II	5 kg <i>(33.3%)</i>	79 %	22
Grain	Strzegom Monachijski typ I	5 kg <i>(33.3%)</i>	79 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	30 g	60 min	13.9 %
Boil	Waimea	30 g	60 min	15.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Slant	150 ml	Fermentis

Extras

e Name	Amount	Use for	Time
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Flavor	bób tonka	7.5 g	Boil	15 min
Flavor	bób tonka	7.5 g	Secondary	7 day(s)