Mroźny Koźlak

- Gravity 23.1 BLG
- ABV **10.5** %
- IBU **30**
- SRM **24.1**
- Style Eisbock

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- · Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 26.8 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 30 liter(s)
- Total mash volume 40 liter(s)

Steps

- Temp **65 C**, Time **30 min** Temp **99 C**, Time **10 min**
- Temp 70 C, Time 20 min
- Temp 99 C, Time 10 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 30 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 30 min at 65C
- Keep mash 20 min at 70C
- Keep mash 1 min at 78C
- Keep mash 10 min at 99C
- Keep mash 10 min at 99C
- Sparge using 6.8 liter(s) of 76C water or to achieve 26.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	2 kg (20%)	79 %	10
Grain	Munich Malt	7 kg <i>(70%)</i>	80 %	18
Grain	Weyermann Caramunich 3	0.8 kg <i>(8%)</i>	76 %	150
Grain	Carafa II Special	0.2 kg <i>(2%)</i>	70 %	812

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	40 g	70 min	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP830 - German Lager Yeast	Lager	Slant	450 ml	White Labs