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- Gravity 13.7 BLG
- ABV ----
- IBU **28**
- SRM 4.4

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 28.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp 64 C, Time 50 min
 Temp 72 C, Time 10 min

Mash step by step

- Heat up 16.5 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 50 min at 64C
- Keep mash 10 min at 72C
- Sparge using 17.3 liter(s) of 76C water or to achieve 28.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	5 kg <i>(90.9%)</i>	80 %	4
Grain	Weyermann - Carapils	0.5 kg <i>(9.1%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	15 g	60 min	15.5 %
Boil	Saaz (Czech Republic)	20 g	10 min	4.5 %
Whirlpool	Saaz (Czech Republic)	10 g		4.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
czech pilsner 18	Lager	Dry	10 g	Gozdawa