Bratowe

- Gravity 17.3 BLG
- ABV 7.4 %
- IBU **13**
- SRM **5.5**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 22 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 26.4 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 28 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 76 C, Time 15 min

Mash step by step

- Heat up 21 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 15 min at 76C
- Sparge using 12.4 liter(s) of 76C water or to achieve 26.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3 kg <i>(42.9%)</i>	85 %	7
Grain	Weyermann - Pilsner Malt	3 kg <i>(42.9%)</i>	81 %	5
Grain	Weyermann - Pale Wheat Malt	1 kg <i>(14.3%)</i>	85 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Equinox	10 g	60 min	13.1 %
Aroma (end of boil)	Equinox	40 g	1 min	13.1 %
Dry Hop	Amarillo	50 g	7 day(s)	9.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis