Ciasteczko

- Gravity 14.5 BLG
- ABV 6 %
- IBU 28
- SRM **45.4**
- Style American Brown Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

• Temp 68 C, Time 70 min

Mash step by step

- Heat up 18 liter(s) of strike water to 76C
- Add grains
- Keep mash 70 min at 68C
- Sparge using 13.3 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Biscuit Malt	1 kg <i>(16.7%)</i>	79 %	45
Grain	Pilzneński	4 kg (66.7%)	81 %	4
Grain	Briess - Dark Chocolate Malt	1 kg (16.7%)	60 %	1000

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M42 New World Strong Ale	Ale	Dry	10 g	Mangrove Jack's