Geometria Wykreślna

- Gravity 18.4 BLG
- ABV 8 %
- IBU 48
- SRM **49.1**
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 16 liter(s)
- Trub loss 5 %
- Size with trub loss 16.8 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 20.2 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 2.5 liter(s) / kg
- Mash size 14.4 liter(s)
- Total mash volume 20.1 liter(s)

Steps

- Temp 62 C, Time 50 min
 Temp 72 C, Time 10 min

Mash step by step

- Heat up 14.4 liter(s) of strike water to 70.4C
- Add grains
- Keep mash 50 min at 62C
- Keep mash 10 min at 72C
- Sparge using 11.6 liter(s) of 76C water or to achieve 20.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	pale ale	4 kg (69.6%)	79 %	6
Grain	czekoladowy barwiący	0.5 kg (8.7%)	68 %	1200
Grain	Caramunich III	0.5 kg <i>(8.7%)</i>	73 %	150
Grain	jęczmień palony	0.25 kg <i>(4.3%)</i>	70 %	1000
Grain	Płatki owsiane	0.5 kg (8.7%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	magnum	20 g	60 min	13 %
Boil	mosaic	15 g	30 min	12 %
Boil	mosaic	10 g	10 min	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
US-04	Ale	Dry	6 g	

Extras

pe Name	Amount	Use for	Time
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	1	100	Б :	
Flavor	l kawa espresso	100 a	Boil	1 min
1 14 4 61	Rawa copi coo	100 g	DOII	± 1111111