

Zimowy

- Gravity **13.3 BLG**
- ABV **5.5 %**
- IBU **26**
- SRM **26.3**
- Style **American Stout**

Batch size

- Expected quantity of finished beer **30 liter(s)**
- Trub loss **5 %**
- Size with trub loss **33 liter(s)**
- Boil time **65 min**
- Evaporation rate **10 %/h**
- Boil size **39.9 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **25.5 liter(s)**
- Total mash volume **34 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	pale	5 kg (58.8%)	--- %	---
Grain	Strzegom Wiedeński	1 kg (11.8%)	79 %	10
Grain	Monachijski	1 kg (11.8%)	80 %	16
Grain	Czekoladowy	0.5 kg (5.9%)	60 %	800
Grain	Strzegom Karmel 600	0.5 kg (5.9%)	68 %	601
Grain	Biscuit Malt	0.5 kg (5.9%)	79 %	45

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	50 g	10 min	13.2 %
Boil	Cascade	50 g	10 min	7.8 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Liquid	400 ml	Fermentis

Extras

Type	Name	Amount	Use for	Time
Spice	cynamon cejloński	15 g	Boil	30 min
Spice	kardamon	10 g	Boil	30 min
Spice	goździki	10 g	Boil	30 min
Fining	mech irlandzki	10 g	Boil	15 min

Notes

- Poziomy nasycenia dla stylów
Porter, stout 1.7 - 2.3
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