

Świąteczne

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU ---
- SRM **28.9**
- Style **Christmas/Winter Specialty Spiced Beer**

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)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4 kg (66.7%)	82 %	4
Grain	Viking Munich Malt	1 kg (16.7%)	78 %	18
Grain	Strzegom Karmel 150	0.2 kg (3.3%)	75 %	150
Grain	Strzegom Karmel 300	0.2 kg (3.3%)	70 %	299
Grain	Strzegom Czekoladowy 400	0.4 kg (6.7%)	68 %	400
Grain	Strzegom Barwiący	0.2 kg (3.3%)	68 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Mash	Lublin (Lubelski)	50 g	30 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
Safbrew T-58	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Spice	przyprawa do piernika	100 g	Boil	10 min