

Porter Bałycki

- Gravity **20.9 BLG**
- ABV **9.3 %**
- IBU **30**
- SRM **46.7**
- Style **Baltic Porter**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **4 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **5 %/h**
- Boil size **31.3 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **2.7 liter(s) / kg**
- Mash size **28.7 liter(s)**
- Total mash volume **39.3 liter(s)**

Steps

- Temp **65 C**, Time **1 min**
- Temp **61 C**, Time **30 min**
- Temp **73 C**, Time **30 min**
- Temp **79 C**, Time **2 min**

Mash step by step

- Heat up **28.7 liter(s)** of strike water to **68.6C**
- Add grains
- Keep mash **30 min** at **61C**
- Keep mash **1 min** at **65C**
- Keep mash **30 min** at **73C**
- Keep mash **2 min** at **79C**
- Sparge using **13.2 liter(s)** of **76C** water or to achieve **31.3 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Wiedeński	5 kg (47%)	79 %	10
Grain	Strzegom Monachijski typ I	3.75 kg (35.3%)	79 %	16
Grain	Bestmalz Carmel Pils	1.25 kg (11.8%)	75 %	450
Grain	Strzegom Czekoladowy ciemny	0.63 kg (5.9%)	68 %	1200

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	43.75 g	60 min	10 %
Boil	Lublin (Lubelski)	25 g	19 min	4 %

Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Slant	300 ml	Fermentum Mobile