

IPB

- Gravity **26.4 BLG**
- ABV **12.5 %**
- IBU **40**
- SRM **32.3**
- Style **Baltic Porter**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **160 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **33 liter(s)**
- Total mash volume **44 liter(s)**

Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up **33 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **8.4 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	4 kg (36.4%)	81 %	4
Grain	Strzegom Monachijski typ II	3 kg (27.3%)	79 %	22
Grain	Strzegom Wiedeński	3 kg (27.3%)	79 %	10
Grain	Special B Malt	0.5 kg (4.5%)	65.2 %	315
Grain	Czekoladowy	0.5 kg (4.5%)	60 %	788

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	60 g	60 min	11 %