

# Budowlane

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- Gravity **12.6 BLG**
- ABV **5.1 %**
- IBU **36**
- SRM **5.3**
- Style **Extra Special/Strong Bitter (English Pale Ale)**

## Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **10 %**
- Size with trub loss **28.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **35.9 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)**

## Steps

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

## Mash step by step

- Heat up **18 liter(s)** of strike water to **80.7C**
- Add grains
- Keep mash **60 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **23.9 liter(s)** of **76C** water or to achieve **35.9 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	5 kg (76.9%)	80 %	7
Grain	Briess - Munich Malt 10L	1 kg (15.4%)	77 %	20
Sugar	cukier	0.5 kg (7.7%)	100 %	---

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	30 g	90 min	13.5 %
Boil	Lublin (Lubelski)	50 g	1 min	3.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	---

## Notes

- uwarzone 17.06.2017  
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