

# Hardcore IPA Brewdog

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- Gravity **20.5 BLG**
- ABV **9 %**
- IBU **104**
- SRM **5.9**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **25.2 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **24 liter(s)**
- Total mash volume **32 liter(s)**

## Steps

- Temp **65 C**, Time **60 min**

## Mash step by step

- Heat up **24 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **60 min** at **65C**
- Sparge using **9.2 liter(s)** of **76C** water or to achieve **25.2 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	8 kg (100%)	80 %	5

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	48 g	90 min	12 %
Boil	Warrior	37 g	90 min	15 %
Aroma (end of boil)	Chinook	28 g	1 min	13 %
Dry Hop	Amarillo	56 g	14 day(s)	9.5 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Safale US-05	Ale	Slant	1 ml	Fermentis

## Notes

- Zacieranie:  
65°C - 60 min.

Wysładzać do uzyskania ok. 23 l brzezki.

Gotować 90 min.

Zlać na cichą i dodać chmiel Amarillo w muslinowym woreczku. Butelkować po 14 dniach.

Feb 8, 2025, 7:49 PM